TSMExplorer V7



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TSMExplorer functions

TSMExplorer is a solution for the administration and monitoring of IBM Spectrum Protect (SP).

TSMExplorer possesses the following features:

- Easy to use user interface for managing SP servers
- Easy installation
- Low requirements to hardware resources
- Implementation of all functions available through standard dsmadmc management console
- Implementation of graphical charts for displaying data
- Collects and displays statistical information on SP server work
- Save SP configuration, volume history, device configuration file
- Generates reports, alerts and sends them to users.
- Performs constant monitoring SP servers' key parameters

TSMExplorer Software requirements

TSMExplorer supports the following operations systems:

- Windows System;
- Unix Systems;
- Supported SP version: 6.x, 7.x, 8.x

Front-end is not required Java for work. Just run browser and go.

TSMExplorer Hardware requirements

TSMExplorer requires:

• 1024 Mb memory.

TSMExplorer Installation in Windows (portable version)

- download file tsmexp_winx64.zip from https://www.tsmexplorer.com/ site;
- Install Spectrum Protect Client with administrative clients (dsmadmc.exe);
- extract zip file to any directory;
- copy license key **key.lic** to application path;
- run install_service.cmd as administrator for installation windows service;
- check windows service "TSMExplorer Server";
- open browser and go to https://host:5020/start
- default login/password is admin/admin

To uninstall TSMExplorer just stop application and remove directory by

> uninstall_service.cmd

> delete path /TSMExplorer

TSMExplorer Installation in Linux and AIX (portable version)

- download file tsmexp_aix.zip or tsmexp_linx64.zip;
- Install Spectrum Protect client with administrative clients (dsmadmc);
- extract zip file to any directory;
- copy license key key.lic to application path;
- set chmod 0755 for file tsmexp.rc;
- change variable PATH_TSMEXPLORER to absolute path in tsmexp.rc;
- run > tsmexp.rc start' for start service;
- open browser and go to https://host:5020/start;
- default login/password is admin/admin

To uninstall TSMExplorer just stop application and remove directory by

> tsmexp.rc stop

> rm –rf /TSMExplorer

TSMExplorer Installation for Unix Systems

- download file tsmexp_unix.zip from https://www.tsmexplorer.com/ site;
- install Java 11 or later version;
- Install Spectrum Protect client with administrative clients (dsmadmc);
- extract zip file to any directory;
- copy license key **key.lic** to application path;
- set chmod 0755 for file tsmexp.rc;
- change variable PATH_TSMEXPLORER to absolute path in tsmexp.rc;
- run > tsmexp.rc start' for start service;
- open browser and go to https://host:5020/start;
- default login/password is admin/admin

To uninstall TSMExplorer just stop application and remove directory by

> tsmexp.rc stop

> rm –rf /TSMExplorer

Additional command (UNIX):

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- > tsmexp.rc stop stop service
- > tsmexp.rc status show status service
- > tsmexp.rc restart restart service
- > tsmexp.rc license show license

Additional command (Windows):

- > TSMExplorer.exe stop for stop service •
- > TSMExplorer.exe status show status service
- > TSMExplorer.exe restart restart service
- > TSMExplorer.exe license show license

TSMExplorer Config

Standard app.cfg file for manager application

port = 5020	// communication port
lockport = 27550	<pre>// inside service port for application</pre>
ibmlib = false	// enable/disable function for manage IBM libraries TS3500 and TS4500
restapi = true	<pre>// enable/disable REST-API for Spectrum Protect Servers</pre>
restport = 16020	<pre>// REST-API communication port for Spectrum Protect Servers</pre>

TSMExplorer Upgrade

- stop application service
- update all files except app.cfg, tsmexp.rc

License Model

All license information for the "TSMExplorer" software is contained in a single file with the name "key.lic". This file is valid equally for the client and the server component of the "TSMExplorer" software. For activating the licensed version, the key.lic file must be located in the root directory where the program is installed. You can look at product license and other parameters in menu "About"

You can send request to support@tsmexplorer.com to get temporary license keys.

Preferences and SP Server Registration.

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Nodes	Status Start Ti						bjects	MB/s As Entity	Sub.Entity A
 Virtual Machines 	✓ 2024-0						2	0.1	10
Filespaces	✓ 2024-0	Credential for	Access to Active Directory				2	1.1	10
Node Groups Collocation Groups	✓ 2024-0	LDAP User:	tsmldap@co.mydomain.c	om			2	0.1	10
Replication	./ 2024-0	LDAP Passwore	d: •••••				2		10
Proxy Nodes	V 2024-0	Signed Certifi	icate for https				2		
Occupancy	✓ 2024-0	Java keystore f	file (jks): /Volumes/project	s/javaprojects/tsme	explorer/bin/keystore.jks	Default	2	0.1	10
Client Option Set	✓ 2024-0	Password for C	Sertificate:	₽ ~) □			2	0.6	10
 Backup Set 	✓ 2024-0	Path to dsmad	dmc				2		10
At-Risk Nodes	✓ 2024-0	Path to dsmad	mc: //Library/Application Sup	port/tivoli/tsm/clier		Autosearch	2		10
Virtual FS Mapping Schedules/Events	✓ 2024-0	Viewing date	format				2	0.1	10
Client Schedules	√ 2024-0	- Session Time	out (bours)				2	1.4	1(
Admin.Schedules	(2024.0	Session Timeo	ut: 5 💌				2	0.1	10
 Events 	✓ 2024-0	L					2	0.1	K
Mail Devices/Storages	✓ 2024-0					Cancel OK	2		10
Hardware	2024-0 ⊂ Details	4-15 14:38:34 0	0:00:01 ARCHIVE	SAPRHO R3		160 7 KB	2	0.2	10
Enterprise	Process:	ARCHIVE (18025	528)	Objects:	2	Library Name	e: .	_	
Dashboard	Start Time:	24-Apr-15 14:38	\$:44	Failed Objects:	0	Drive:		-	
	End Time:	24-Apr-15 14:38	:45	Processed:	1.4 MB	Volume Nam	e:	-	
	Address:	10.10.24.11:5584	14	Idle:	0 sec.	Last Use:			
Sessions/Processes	Schedule:	74 MP		U: Num Office Vols:	U sec.	Current com	m wait: ()	
互 Command Line	Deduplication:	199.9 KB		Processes:	2				
⑦ ADSM help	Node: SAPRH	Q_R3							

- Domain auto-set "@yourdomain" to login form
- Dsmadmc path manual set path to dsmadmc
- Java key store file manual personal jks file with your personal certificate for validate SSL connection

Create personal jks (certificate) file

To create keystore:

keytool -genkeypair -v -alias <u>tsmsrv.yourdomain.com</u> -keyalg RSA -keysize 2048 -validity 730 - keystore TSMExplorer.jks -storepass XXXX -storetype JKS

To generate certificate request:

>keytool -certreq -v -alias <u>tsmsrv.yourdomain.com</u> -file tsmsrv.yourdomain.com.csr -keypass XXXX -keystore TSMExplorer.jks -storepass XXXX -storetype JKS

To import CA root certificate:

>keytool -import -v -trustcacerts -alias YOUR_CA_ROOT -file root.cer -keystore TSMExplorer.jks -storepass XXXX -storetype JKS

To import CA intermediate certificate:

>keytool -import -v -trustcacerts -alias YOUR_CA_INTERMEDIATE -file intermediate.cer - keystore TSMExplorer.jks -storepass XXXX -storetype JKS

To import signed certificate:

>keytool -import -v -alias <u>tsmsrv.yourdomain.com</u> -file tsmsrv.yourdomain.com.cer -keypass XXXX -keystore TSMExplorer.jks -storepass XXXX -storetype JKS

To list certificates in keystore:

>keytool -list -v -keystore TSMExplorer.jks -storepass XXXX -storetype JKS

Or use <u>https://keystore-explorer.org</u> for generate jks file from imported CA root certificate

Registration of any new SP Server in TSMExplorer includes the following properties:

- Name of SP Server
- SP server address (TCP/IP address)
- SP server port number
- Name of SP server administrator
- Password of SP server administrator
- Encoding message from SP server (for different localization of SP)
- Enable/Disable collection data from SP server
- SP server description

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Servers South	South 🗟 South	
TSMExplorer Servers Dashboard Approvals Alerts Collector Reports Alerts Collector Reports Alerts Statistics/Config Operation Log Groups/Users SMTP SMTP	South South Servers Servers Servers Servers Servers Servers Servers Servers Serv	
	SP sessions: enabled Machine GUID: 07.91.9f.0e.d7.31.11.e6.89.4b.3a.63.84.f1.3e.05 Enconding: UTF-8 Collector: ×	
	Description:	

After registration, the SP server will appear in the list. Available SP server gets **online** status.

All passwords are encrypted and stored in database.

Use this command **«accept date**» from menu to cause the server to accept the current date and time as valid when an invalid date and time are detected.





TSMExplorer Interface

TSMExplorer layout consists of 3 main parts:

- Spectrum Protect logical component tree on the left.
- When selecting a tree component its full information opens on the right.
- The buttons for opening separate windows are situated in the left bottom corner.

Any element of the logical tree can open and have a menu that is activated by the right mouse button. Any list of data has a menu that is activated by the right mouse button. Dialog windows have the HELP button to display a window with information on the current

operation.

Most lists can be exported to HTML, CSV or PDF format.

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TSMExplorer						¢ 🛓
Servers Co-north ×						
TSM2	Information					
© Configuration	Backup DB	re Inventory + Halt server				
A Policy Domains			6) (
Domains Nodes	Info		License / Storages		Clients	
Virtual Machines	Platform:	AIX	Front-end licensing:	134.5 TB	Domains:	21
 Filespaces 	Version:	7.1.10.100	Back-end licensing:	219.8 TB	Nodes:	258
Node Groups	Address:	1()2	PVU:	342 880	Objects:	110 196 116
 Collocation Groups 	Uptime:	124 days 02:38	SUR Occupancy:	219.8 TB	Active Objects:	107 838 024
Replication	DB Backup	24-04-15 12:50	Drimany Poole:	221.8 TB	Active Data:	175 2 TB
Proxy Nodes Occupancy	DB Backup.	24-04-15 12:50	Philliary Pools.	221.0 TD	Active Data.	1/0.2 TB
Client Ontion Set	Database:	437.1 GB - 82.4%	Cloud Usage:		Virtual Machines:	0
Backup Set	Activity Log:	508.0 MB - 0.8%	Copy Pools:	0 B	Backup:	409.5 TB
At-Risk Nodes	Archive Log:	17.4 GB - 3.5%	Active Pools:	0 B	Archive:	52.5 TB
Virtual FS Mapping						
Schedules/Events	History of schedu	le Events	Activity last 24 hours		<u>At-risk Nodes</u>	
Devices/Storages	COMF	PLETED MISSED FAILED			e Ris	SK 🔵 NO RISK
Hardware	250		IN 8	3.6 TB		
Maintenance			Backup	Archive		16.3%
	200		1.5 1 B	7.116		
Server Activity						
Dashboard	150		OUT	0.0 B		Total
			Restore	Retrieve		257
Control Activity Log	100		0.0 B	0.0 B		207
Sessions/Processes						
D. Command Line	50		REPLICATI	ON [online]	83.7%	
				0.0 B - 0.0 B		
(?) ADSM help	0		Ciminini			

Server configuration

"Server name" root item opens the SP server properties description.

Server properties are grouped into tabs for convenient viewing.

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 Configuration Policy Domains Domains Nodes Virtual Machines Filespaces Node Groups Collocation Groups Replication Proxy Nodes Occupancy Client Option Set Backup Set At-Risk Nodes Virtual FS Mapping Schedules/Events Devices/Storages Hardware 	Update server TSM2	Client-Server Logging	Schedule DRM [? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	DRM Pools License <i>i</i> Summar	Miscellaneor Audit Period: / Retention:	us Monitor 1 60	Replicat	ion Disable		2				
Enterprise								Cance		ĸ				
Maintenance Maintenance Contenance Contenan	Server Installation Date: Server Restart Date: Current Time on Server:	16-03-31 16:01 23-12-13 12:27 24-04-15 15:14						Cance						

Domains

Policy Domain item allows to perform the following operations:

- Create and change Domains, Policy Set
- Create and change Management class and Copy Groups

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Servers Co-north >	3												
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Configuration A Policy Domains	≣ Ø ● N	lew						Only Active Classes: 🗌 Any Domain 🔹 🔍 search					
Domains	Domain	Policy Set	Managment Class Default Auto-Mic			e Space	Migration	Migr.Destination	Last Update By	Last Update	Description		
Nodes	ED STANDAD		FILE	E Class Od		NONE	YES			19-10-22 11:00			
Virtual Machines Eilespaces	M	STANDARD	FILE	J	0 day	NONE	YES	SPACEMGPOOL	ATOM	16-04-04 12:31	12:21		
Node Groups	M	STANDARD	FILE	3	0 day	NONE	YES	SPACEMGPOOL	атом	18-11-28 12:41			
Collocation Groups	PA	STANDARD	FILE	, ,	0 day	s NONE	YES	SPACEMGPOOL	TSMEXP	20-11-26 10:49			
Replication	SA	STANDARD	FILE	· ·	0 day		VES	SPACEMOPOOL	ATOM	16=04=04 12:31			
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Client Option Set	SA EV	STANDARD	FILE	~	0 day	NONE	VEC	SPACEMOPOOL	ATOM	10-04-04 12:31			
 Backup Set 	SA TOD	STANDARD	FILE		0 day	NONE	VEC	SPACEWOPOOL	TOMEYO	01 10 00 14:00			
At-Risk Nodes Virtual ES Mapping	SA IOCOL	STANDARD	FILE	~	0 day	NONE	TES	SPACEMGPOUL	ISMERP	21-12-09 14-36			
Chedules/Events	TDWSSQL	STANDARD	FILE	v	0 day	S NONE	TES	SPACEMGPOUL	ATOM	17-12-19 16:21			
Devices/Storages	Backup Copy Update I	Delete					Archive Copy Group						
Hardware	Managment C	lass: FILE					Managn	nent Class: FILE					
Maintenance	Copy Destinat	tion: BUFF	ER_POOL				Copy De	estination: BUFF	ER_POOL				
	Copy Frequen	cy: disab	le				Retain V	version: 365 c	days TION				
Server Activity	Versions Dele	ted: 1					Retain M	/inimum:					
C Dashboard	Retain Extra V	ersions: 28 da	ays				Copy Se	erialization: SHRS	STATIC				
Activity Log	ersion: 28 da	ays				Managir	ng Profile:		-				
Sessions/Processes	Sessions/Processes						Last Up	date: ATON	//19-07-24 23:	10			
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Nodes

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A Policy Domains	- 57	V New 256				Any Node Grou	up C	Any Domain	No Filter	Bacquord	Rackup	Archivo
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Virtual Machines		AF UPKI	DEFAULT	416.0 GB	client	WinNT	7.1.4.0	arrupki	10 0.75	NEVER	×	~
 Filespaces 		AS	DEFAULT	881.4 GB	client	Linux86	6.2.5.0	ası	10 2	NEVER	×	~
Node Groups		A	DEFAULT	69.2 GB	client	WinNT	6.3.2.0	bill	10 8.28	NEVER	×	~
 Collocation Groups 		P()A	DEEALILT	221 GB	client	WinNT	6312	ho	10 02	NEVER	~	
Replication		BC /A	DEFAULT	23.108	client	WITTINT	0.3.1.2	bolinia	10 93	NEVER	^	v
 Proxy Nodes 	•	BC	FILES	1.4 TB	client	WinNT	7.1.8.0	bo rtal	10 95	NEVER	×	~
Occupancy		C	CC 3T	50.3 GB	client	WinNT	7.1.8.0	c-h	10 1.1	NEVER	~	~
Client Option Set Backup Set		CE	DEFAULT	63.9 GB	client	WinNT	6.3.2.0	ce	10 4.1	NEVER	×	~
At-Risk Nodes		CE′	DEFAULT	1.2 TB	client	WinNT	6.3.2.0	ce:	10 4.2	NEVER	×	~
 Virtual FS Mapping 		CI PP	CT	234.6 GB	client	WinNT	7140	cn:	10 1.41	NEVER	*	1
Chedules/Events				204.0 00	enerit		7.1.4.0	pp	1.41	HEVER.	~	•
Devices/Storages	Details	Details-2 Last Session	Replication Sched	ules Notes	Secure	Notes						
E Hardware	Node:	AIYKI		At-ris	k Interval:	DEFAULT		Data	R/W Path:	ANY/ANY		
Enterprise	Domain:	DEFAULT		Passw	ord Expir	ation: NEVER		Allo	w Bck.Deletion?:	×		
Maintenance	Client Ve	ersion: 7.1.4.0		Colloc	ation Gro	up: -		Allo	v Arch.Deletion?:	\checkmark		
DRM	TCP Nan	me: AF PKI		🗂 Option	nSet:	WINDOWS		Role	Override:	USEREPORTED		
Server Activity	IP Addre	ess: 10 75		🖺 Trans.	Group Ma	ax: 0		Dec	ommissioned Date:	-		
C Dashboard	URL Web	b Client: -		Auto F	S Renam	e: NO		Reg	ster by:	A 16-04-04	4 12:32	
de Activity Log	Session	Initiation: ClientOrServer		Keep I	Mount Po	int: ×						
Sessions/Processes	LOCKed:	NO		Mount	Points:	1						
	Node Gr	roups: CLIENT_CO										
Command Line	Contact											
⑦ ADSM help	Client O	S: WIN:Windows Server	2008 R2-x64 / W	inNT (6.01) /	VMware	/ Intel Xeon E5-26	90					

Occupancy

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Domains	□ Tag	Node		Domain	Protec	cted	Туре	Platform	Version	TCP Name	Address	Lock	Password	Backup	Archive L
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Filespaces		AS		DEFAULT	881.4	GB	client	Linux86	6.2.5.0	ast	10		NEVER	×	~
Collocation Groups		A۱		DEFAULT	69.2	2 GB	client	WinNT	6.3.2.0	bill	10 8.28		NEVER	×	~
Replication		BC	A	DEFAULT	23.1	I GB	client	WinNT	6.3.1.2	bo a	10 93		NEVER	×	~
Proxy Nodes	•	BC	BRTAL	FILES	1.4	1 ТВ	client	WinNT	7.1.8.0	bo rtal	10 95		NEVER	×	~
 Occupancy 		C-	L.	CC 3T	50.3	GB	client	WinNT	7.1.8.0	c-t	10 1.1		NEVER	~	~
 Client Option Set 		CE		DEFAULT	63.9	GB	client	WinNT	6.3.2.0	ce	10 4.1		NEVER	×	~
Backup Set At Bick Nodes		CE		DEFAULT	1.2	TB	client	WinNT	6320	Ce'	10 4.2		NEVER	×	1
Virtual FS Mapping		C1	DD	C	224.6	CR	elient	MinhIT	71.4.0		10 1 41		NEVED		,
Chedules/Events		0110 10	SEE	C1	234.0	000	Client	WIIINI	7.1.4.0	ch: pp	1.41		NEVER	^	•
Mail Devices/Storages	Details	Details-2	Last Session Rep	lication Schedul	es No	otes S	Secure I	Notes							
E Hardware	Node:		AlYKI		At	t-risk li	nterval:	DEFAULT		Di	ata R/W Path:	ANY/	ANY		
Enterprise	Domain:		DEFAULT		Pa	asswor	rd Expira	ation: NEVER		AI	llow Bck.Deletion?:	×			
Maintenance	Client Ve	ersion:	7.1.4.0		C	ollocat	tion Gro	up: –		Al	llow Arch.Deletion?:	\checkmark			
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Deskhoard	IP Addres	SS:	10 /5		TT 🖆	rans.Gr	roup Ma	ix: 0		D	ecommissioned Date:	-			
Dashboard	URL Web	D Client:	-		A	uto FS	Rename	e: NO		Re	egister by:	A	/ 16-04-04	12:32	
Activity Log	Locked:	initiation:	NO		K	eep Mo	ount Poi	int: ×							
C Sessions/Processes	LUCKEU.		NO		IVI	iount P	oints:	1							
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Collocation groups

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Activity Log				Details Node: BONUS	PORTAL		
				Domain: FILES	05		
② ADSM help				TCP Name: BONUS	SPORTAL		

Node groups

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Domains Nedec	Node Group	Nodes Description		Node	
Virtual Machines	CL	171		ARN WUPKI	
 Filespaces 	CL ISYST	10		ASU	
Node Groups	CLP	10		AVA	
 Collocation Groups Replication 	CN	2		BON ORTAL	
Proxy Nodes	DE OSPO	2		CE1 /	
Occupancy	DE	5		CON	
Client Option Set	EXRT	5 report		CON XCH	
At-Risk Nodes	FIL	5		CON	
 Virtual FS Mapping 	HA	5		DCC	
Chedules/Events	ISC	1 report		DCF	
Devices/Storages	KF CBOUD	4		DOC	
Hardware		4			
Maintenance		2 report			
O DRM	OS RT	13 report		DOC E_DB	
Server Activity	RE I_GROUP	2		DOC/ER	
Dashboard	RE ORT	2		FSE	
Activity Log	SA	40		GRC	
	TD	24		Details Domain: DEFAULT	
Sessions/Processes	TE	7		Node: AR PKI	
Command Line	TC	22		IP Address: 10. 75	
② ADSM help		2 report		TCP Name: AR JPKI	

Virtual Machines

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Servers Co-north	Co-south ×											
TSM1Configuration	Virtual Machines	Physicial	2401	P Logical: 124 6 TP	At Dick: 75	04			Dick VMc			L B
A Policy Domains	Virtual Machine	Power	Type	VM Owner	Peporting	Physical	Saved	Saved %	Dick Interval	Since Last Backup	Last Backup	Elansed Time
Domains		Power	WWare		556 8 CB	AA 7 GB	511 7 GB	91 96 %	default	11 days	24-04-04 01-46	00:36:57
Virtual Machines		v	vivivvale		000.000	44.7 00	011.7 00	91.90 %	uerauit	ii days	24-04-04 01.40	00.30.37
Filespaces	ac	~	VMWare	M_FE-MC-DATACENTER	300.3 GB	8.2 GB	291.9 GB	97.26 %	default	11 days	24-04-04 01:32	00:04:07
Node Groups	ak	~	VMWare	M_FE-MC-DATACENTER	43.2 GB	4.7 GB	38.4 GB	89.03 %	default	17 days	24-03-29 01:15	00:06:52
Collocation Groups	AK	~	VMWare	M_FE-MC-DATACENTER	74.6 GB	8.0 GB	66.6 GB	89.28 %	default	17 days	24-03-29 01:16	00:05:17
Replication	arr	~	VMWare	M_FE-MC-DATACENTER	732.7 GB	444.1 GB	288.4 GB	39.37 %	default	24 days	24-03-22 01:14	01:49:47
Proxy Nodes	AF	~	VMWare	M_FE-MC-DATACENTER	126.1 GB	45.8 GB	80.2 GB	63.67 %	default	11 days	24-04-04 01:02	00:55:45
Client Option Set	arma	~	VMWare	M_FE-MC-DATACENTER	89.2 GB	21.2 GB	67.9 GB	76.18 %	default	11 days	24-04-04 01:02	00:29:27
Backup Set	arman arma	~	VMWare	M_FE-MC-DATACENTER	98.9 GB	29.3 GB	69.6 GB	70.39 %	default	11 days	24-04-04 01:02	00:29:23
At-Risk Nodes	arm	~	VMWare	M_FE-MC-DATACENTER	98.6 GB	25.0 GB	73.6 GB	74.65 %	default	11 days	24-04-04 01:32	00:14:56
Schedules/Events	arr	~	VMWare	M_FE-MC-DATACENTER	84.8 GB	16.4 GB	68.4 GB	80.64 %	default	11 days	24-04-04 01:32	00:10:46
Devices/Storages		1	VMWare	M FE-MC-DATACENTER	111.5 GB	4.8 GB	106 7 GB	9573%	default	14 days	24-04-01 01:43	00:02:58
B Hardware					0077.00	0570.00	070.0.00	00.44.44	default.	00 days		05-44-04
🗎 Enterprise			V MIM/aro		G///ISR	bb/ s IsB	IIII 148	- 70 TT %	nerallit	30 Aave	74=03=16 01:17	15:14:31
🕅 🎇 Maintenance	Details Restore Points											
DRM	VM: acsrv4											
Server Activity	Host Name: acsrv4											
Dashboard	Size: 556.8 GB	6 / 11 days ag	0									
Activity Log	OS: Other 4 x or lat	er Linux (64-h	oit)									
	Type: VMware Virtual	Machine	,,,,									
Sessions/Processes	IP Address: 10.74											
Command Line	Power State: POWERED_ON											
⑦ ADSM help												

Schedules/Events

Schedule item allows to perform operations:

- Create and change Client's schedules
 - TSMExplorer has a convenient interface for viewing, creating and changing client's schedules, viewing and changing the associations of client nodes and schedules.
- Create and change administrative schedules
- View Events/Events timeline
 - TSMExplorer allows viewing the events related to client and administrative schedules, as well as viewing graphical image of the start time and the duration of schedule for estimation of the schedule window load.

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TSMExplorer														ø 📩
Servers Co-north	Co-south >	٢												
TSM1 Configuration	Clients Schedules	100							Amu	Demoin	(-		eeereb	0
A Policy Domains	Domain	Schedule	Action	Type	Period	Start Time	Day of Month	Day of Week	Ally	Duration	Nodes	Priority	Description	<i></i>
 Domains Nodes 	CONTAINER	UNIX DBF W	Command	Enhn.	renou	23:00	Any	Mo Tu We Th Fr	Sa Su	1 hours	1	5	Description	
 Virtual Machines 	CONTAINER		Command	Enhn		23:00	Δηγ		Sa Su	1 houre	1	5		
 Filespaces 	CONTAINER		Incremente	Enhn.		23:00	Any			2 hours	2	E		
Node Groups	CRC	DEFAULT_INC_D	incrementa	Ennin.		04.00	Any		Sa Su	2 Hours	3	5		
Collocation Groups Deplication	CRC	DEFAULT_INC_D_ALL	Incremental	Enhn.		04:00	Any	Mo Iu We In Fr	Sa Su	2 hours	2	5		
Replication Proxy Nodes	DEFAULT	DEFAULT_INC_D	Incrementa	Enhn.		01:00	Any	Mo Tu We Th Fr	Sa Su	1 hours	41	5		
 Occupancy 	DEFAULT	DEFAULT_INC_D_UNIX	Incremental	Enhn.		05:00	Any	Mo Tu We Th Fr	Sa Su	1 hours	20	5		
Client Option Set	DEFAULT	DEFAULT_SYSTEM_STATE	Backup	Enhn.		15:00	Any	Mo Tu We Th Fr	Sa <mark>Su</mark>	3 hours	30	5		
 Backup Set 	DEFAULT	DEFAULT_WIN_DBA_D	Command	Enhn.		23:00	Any	Mo Tu We Th Fr	Sa <mark>Su</mark>	1 hours	1	5		
At-Risk Nodes	DEFAULT	DEFAULT_WIN_DBF_W	Command	Enhn.		23:00	Any	Mo Tu We Th Fr	Sa Su	1 hours	2	5		
Schedules/Events	DEFAULT	FE-ORAENTMANAGER	Incrementa	Enhn.		03:00	Any	Mo Tu We Th Fr	Sa Su	1 hours	1	5		
Client Schedules	Dotaila Ohiaata	Associated blades												
Admin.Schedules	Name: DECA			Start Coh	adula	2010 04 20	04:00		onth	A.m.				
Events	Domain: ASIO	DLI_INC_D		Duration:	equie.	1 hours	04.00	D;	onun. av of Mont	h: Any	,			
Devices/Storages	Priority: 5			Period:		Thours		W	eek of Mo	nth: Any	,			
Hardware	Action: INCRE	MENTAL		Expiration	n:	Never		Da	ay of Weel	c: Mo	n.Tue.Wee	d.Thu.Fr		
Deebbaard	Subaction:			Schedule	Style:	ENHANCED		U	odate By:	Т	(P / 24	-02-07	00:25	
Dashboard	Profile:			Max.Run	Time:	0 min.								
activity Log	Command:													
Sessions/Processes	-sub	dir=yes -domain="ALL-LOCAL	-systemstate											
Command Line	Options:													
O ADSM help	Description:													

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Servers Co-north		Update Client Schedule			
TSM1	Clients		8		
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A Policy Domains				search	
 Domains 	Domai	General Objects Style	odes P	Priority Description	n
 Nodes 	CONT	Domain: DEFAULT	1	5	
Virtual Machines	CONT	Name: DEFAULT_INC_D	1	5	
 Filespaces 	CRC	Description:	3	5	
Node Groups	CRC	Options:	2	5	
Collocation Groups Deplication	CRC	-subdir=yes -domain="ALL-LOCAL -systemstate"	2	5	
Replication	DEFAU		41	5	
	DEFAU		20	5	
Client Option Set	DEFAU		30	5	
Backup Set	DEEAL		1	5	
At-Risk Nodes	DEFAC	Action: Incremental		5	
Virtual FS Mapping	DEFAU	Command:	2	5	
Schedules/Events	DEFAU	Subaction: The Subaction: Subacti	1	5	
Client Schedules	Detail	Priority: 5			
Admin.Schedules	Detail	Max.Runtime: 0			
Events	Name	Start Date: 30 / 04 / 2010 * Start Time: 01 : 00 1			
Mail Devices/Storages	Doma	Duration: 1 A Houre	-		
E Hardware	Priorit				
Enterprise	Action	expiration: 15/04/2024 Viewer expiration:	ue,Wed	., I hu, Fri	
🙆 Dashboard	Drofile		KP / 21-	-10-28 13:57	
Activity Log	Prome				
	Comn	Cancel OK	<u> </u>		
C Sessions/Processes	Ontin	-subdir=yes -domain="ALL-LOCAL -systemstate"			
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@ ADSM beln	Descr	íption:			

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TSMExplorer											ø	
Servers Co-north 2	Co-south ×	s -										
 TSM1 Configuration Policy Domains Domains Nodes 	Client Events Adm Search Any Domain	in.Events * Any Schedule *	Any Node	Begin: 15 / End: 15 /	04 / 2024 * 03 : 04 / 2024 * 17 :	00 + 00 + 00 +						
Virtual Machines	Fimeline +	History 108 (108)			Future/Pending	: Missed/Faile	d: 🔽 Completed,	/Other: 🔽	Q sea	rch		<u>e) II</u>
 Filespaces 	Domain Name	Node Name	IP Address	Schedule Name	Status	Scheduled Start	Actual Start	Duration	Result			
Node Groups	VMWARE_METRO	M_I DATACENTER_DM4	10.^27	VM_TAG	Failed	24-04-15 14:00	24-04-15 14:00	00:40:29	At leas	t one er	ror(exc	ept for
Replication	SAPDEV	SAF	101	SAPDEV_INC_D_UNIX	Completed	24-04-15 06:00	24-04-15 06:03	00:02:46	Some f	iles wer	e not p	rocess
Proxy Nodes	SAPDEV	SAF	10. 221	SAPDEV_INC_D_UNIX	Completed	24-04-15 06:00	24-04-15 06:14	00:00:12	All ope	rations	comple	ted su
 Occupancy 	SAPDEV	SAF	10. 6	SAPDEV_INC_D_UNIX	Completed	24-04-15 06:00	24-04-15 06:13	00:02:24	All ope	rations	comple	ted su
Client Option Set Backup Set	SAPDEV	SAF	10.)4	SAPDEV_INC_D_UNIX	Completed	24-04-15 06:00	24-04-15 06:12	00:13:57	All ope	rations	comple	ted su
At-Risk Nodes	CONTAINER	FE- 11	10. 94	DEFAULT_INC_D	Completed	24-04-15 05:00	24-04-15 05:01	06:56:24	At leas	t one wa	arning n	nessaç
 Virtual FS Mapping 	CONTAINER	FE- 12	10. 2	DEFAULT_INC_D	In Progress	24-04-15 05:00	24-04-15 05:15					
Schedules/Events Client Schedules	CONTAINER	C-F DB	10	DEFAULT_INC_D	Completed	24-04-15 05:00	24-04-15 05:00	01:50:03	At leas	t one wa	arning n	nessaç
Admin.Schedules	CONTAINER	KH-PRIM	10. 3	DEFAULT_INC_D	Completed	24-04-15 05:00	24-04-15 05:03	02:07:43	At leas	t one wa	arning n	nessaç
Events	DEFAULT	FE- KS	10. 3	DEFAULT_INC_D_UNIX	Completed	24-04-15 05:00	24-04-15 05:12	00:12:01	Some f	files wer	e not p	rocess
Devices/Storages	DEFAULT	FET	10. 4	DEFAULT_INC_D_UNIX	Completed	24-04-15 05:00	24-04-15 05:05	00:08:36	All ope	rations	comple	ted su
Enterprise	DEFAULT	REL	10. 11	DEFAULT_INC_D_UNIX	Completed	24-04-15 05:00	24-04-15 05:08	00:00:49	All ope	rations	comple	ted su
🕑 Dashboard	DEFAULT	TSN	10. 92	DEFAULT_INC_D_UNIX	Completed	24-04-15 05:00	24-04-15 05:04	00:00:28	Some f	files wer	re not p	rocess
Activity Log	Detaile	EE NIMAN ADDA	10 10 17 00	DEFAULT ING D LINIX	Completed	24 04 15 05:00	04 04 15 05·10	00-05-46	All one			***
Sessions/Processes	Node: M_FE	-MC-DATACENTER_DM4 27		Domain: VMWA TCP Name: TSM-V	RE_METRO		Schedule: VM_ Platform: TDF	_TAG VMware				
E Command Line	Result: At lea	st one error(except for errors for	skipped files)									
() ADSM help	Activity for Node											

Device Classes/Storage Pools

Device Classes/Storage Pools item allows to:

- Create, change, delete, define Device Classes
- Create, change, delete Storage Pools
- Define Volumes for Storage Pool and perform operations on them

View Occupancy and Chart Occupancy

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 Filespaces Node Groups Collocation Groups Replication Proxy Nodes Occupancy Client Option Set Backup Set At-Risk Nodes Virtual FS Mapping Schedules/Events Client Schedules Admin.Schedules Events Events 	Costal Storage Pools Device Class DISK LTOLIB	Volumes Oc. New + Usage Storage Pool BUFFER_POOL LTOPOOL	supancy • Trigger Storage Type DEVCLASS DEVCLASS	Pool Type PRIMARY PRIMARY	Capacity 2.9 TB 341.4 TB	Utilization 74.0%	Pct. Migr 74.0 % 96.4 %	Low Mig 15 % 99 %	High Mig 75 % 100 %	Next Pool	Access READWRITE READWRITE	Cache NO	Copy Pool	search		2
Device Classes Starses Deals	Details Deta	ile_2														
 Storage Pools Containers Cloud Hardware Enterprise Maintenance DRM Dashboard Activity Log Sessions/Processes Command Line 	Storage Pool: Storage Type Stg.Pool Type Device Class: Access Mode Next Pool: Capacity: Pct.Migration Pct.Logical: Copy Storage Active Data P	BUFFER_POO DUFFER_POO DUFFER_POO DUFFER_POO DISK DISK READWRITE LTOPOOL 2.9 TB 74.0 % 100.0 % Pools: cools:	DL				Max.File Thresho Cache M Migratic Migratic Collocal Reuse D Data En	e Size: old migrati Migrated F on Process on Continu te: velay: cryption:	Nolin 15 % iles: NO es: 2 e: YES No de	iit - 75 % alay						
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Proxy Nodes	🗏 🗘 🕨 De	efine Dev	vice Class	s 🕨 Define d	old-data-cache S	tg.Pool										
Occupancy	Device Class	Device	Type De	evice Access	Stg.Pool Count	Library Nar	me Format	Mount Limit	Est/Max Capa	city						
 Client Option Set 	DISK		Ra	andom	2											
 Backup Set 	DBB	LTO	Se	equential	0	TS3500	DRIVE	1								
 At-Risk Nodes 	LTOLIB	LTO	Se	equential	1	TS3500	DRIVE	DRIVES								
 Virtual FS Mapping 																
Schedules/Events																
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 Events 	Storage Pool	S	Storage T	Type Device (Class Pool Type	Capacity	Utilization		Pct. Migr I	.ow Mig	High Mig	Mig.Proc	Next Pool	Access	Cache	Copy Pool
🖌 💰 Device Classes/Pools	BUFFER_POOI	_ C	EVCLASS	5 DISK	PRIMARY	4.1 TB	18.8 % 🗲		18.8 %	10 %	60 %	1	LTOPOOL	READWRITE	NO	
 Device Classes 	LTOPOOL	C	EVCLASS	5 LTOLIB	PRIMARY	417.7 TB	14.5 % 🔳		58.2 %	20 %	100 %	1		READWRITE		
Containers	R3_STGPOOL	C	DIRECTOR	RΥ	PRIMARY	60.0 TB	71.6 % 🗲							READWRITE		
Cloud	VMCTL	D	EVCLASS	5 DISK	PRIMARY	200.0 GB	53.2 % 🗲	100000	53.2 %	70 %	90 %	1		READWRITE	NO	
🛄 DISK	VMWARE_STO	SPOOL D	DIRECTOR	RΥ	PRIMARY	30.0 TB	76.3 % 🗲	88						READWRITE		
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Node Groups		volumes Occupancy				Ame	tetue		Amu Annon			eeereb		B
Collocation Groups		ew 15		Canacity Utilization	Access	Pead Err	Write Err	Mounted	Last Lindate			search		
Replication Provy Nodes	ONLINE /ne	etann/nools/disknool/disk	dsm000	200.0 GB 69.2%	READWRIT	F	WITCE LIT	wounted	19-07-24 19	00				
Occupancy			dem 004			-			10 07 24 10					
 Client Option Set 		etapp/pools/diskpool/disk	c.dsm001	200.0 GB 77.8%	READWRIT	E			19-07-24 19	3:01				
Backup Set	ONLINE /ne	etapp/pools/diskpool/disk	c.dsm002	200.0 GB 78.0%	READWRIT	E			19-07-24 19	9:01				
At-Risk Nodes	ONLINE /ne	etapp/pools/diskpool/disk	.dsm003	200.0 GB 1.1%	READWRIT	E			19-07-24 19	9:01				
Virtual FS Mapping	ONLINE /ne	etapp/pools/diskpool/disk	.dsm004	200.0 GB 100.0%	READWRIT	E			19-07-24 19	9:01				
Client Schedules	ONLINE /ne	etapp/pools/diskpool/disk	.dsm005	200.0 GB 81.9%	READWRIT	E			19-07-24 19	9:02				
Admin.Schedules	ONLINE /ne	etapp/pools/diskpool/disk	.dsm006	200.0 GB 68.0%	READWRIT	E			19-07-24 19	9:03				
Events	ONLINE /ne	etapp/pools/diskpool/disk	.dsm007	200.0 GB 100.0%	READWRIT	Е			19-07-24 19	03				
Devices/Storages		otopp/pools/diskpool/disk	dem008	200.0 CB (100.0%	READWRIT				10 07 24 21	1:02				
Device Classes		etapp/pools/diskpool/disk	c.usinooo	200.0 GB 100.0%	READWRIT	-			19-07-24 21	1.02				
 Storage Pools 	ONLINE /ne	etapp/pools/diskpool/disk	c.dsm009	200.0 GB 89.1%	READWRIT	E			19-07-24 21	1:03				
Containers	ONLINE /ne	etapp/pools/diskpool/disk	k.dsm010	200.0 GB 55.7%	READWRIT	E			19-07-25 11	:22				
Cloud	ONLINE /ne	etapp/pools/diskpool/disk	c.dsm011	200.0 GB 60.4%	READWRIT	E			19-08-19 17	:05				
Enterprise	ONLINE /ne	etapp/pools/diskpool/disk	.dsm012	200.0 GB 89.7%	READWRIT	E			19-08-19 17	:05				
Maintenance	Details													
DRM	Device Class:	DISK		Scratch Volume?:			Da	ite Becam	e Pending:					
Dashboard	Volume Name:	/netapp/pools/diskpoo	ol/disk.dsm000	In Error State?:	lideou		Be	igin Recla	m Period:					
Activity Log	Canacity:	BUFFER_POOL		Times Mounted:	sides:		En	Protectic	Period:					
Activity Log	Pct.Utilization:	69.2 %		Write Pass Numb	er:		La	st Update		ATOM /	19-07-2	4 19:00		
Sessions/Processes	Status:	ONLINE		Location:			La	st Writter			10 07 2	1 10.00		
Command Line	Access Mode:	READWRITE		Write Errors:			La	st Read:						
@ ADSM help	Pct.Reclaimable	e: %		Read Errors:										
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Proxy Nodes	EXCH_STGPOOL	. PRIMARY	No Limit	60.0 TB	53.9 TB	89.8%	248.7 18	4.7	195.4 TB / 7	8.6 % REAL	OWRITE		NOLIMIT	1 day	S	
Occupancy	R3_STGPOOL	PRIMARY	No Limit	38.0 TB	17.6 TB	46.2%	61.2 TB	3.8	45.1 TB / 7	'3.7 % READ	OWRITE		NOLIMIT	1 day	s	
Client Option Set Reckup Set																
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Cloud																
B Hardware	Details Director	ries														
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X Maintenance	Stg.Pool Type:	PRIMARY					Pr	rotect Loo	al Stg.Pools:	-						
DRM	Max.File Size:	No Limit					D	eduplicat	ion:	184.2 TB /	74.1 %					
Dashboard	Capacity:	60.0 TB					C	ompressi	on:	11.2 TB / 17	.4 %					
Activity Log	Pct.Utilization:	89.8 %					Ra	atio:		4.7						
A Nounty Log	Next Pool:	-					Pr	rotect Pro	cesses:							
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Hardware

Hardware item allows to:

- Create, change, delete libraries and define paths to them
- Create, change, delete drives and define paths to them
- View volumes
- Perform check-in, checkout, label operations
- Define data movers
- View SAN devices

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Proxy Nodes Occupancy	✓ 1 ✓ 1	r\$3500 r\$3500	DRIVE02 DRIVE03	LTO	LOADED	L50161L5	257 259	00078A0CA2 00078AE977	500507630F050704 500507630F050706	ULTRIUM5C,	JLTRIUM5,UL JLTRIUM5,UL
 Client Option Set Backup Set At-Risk Nodes 	✓ 1 ✓ 1	rs3500 rs3500	DRIVE04 DRIVE05	LTO LTO	LOADED EMPTY	L50231L5	260 258	00078AE966 00078AE95D	500507630F050707 500507630F050708	ULTRIUM5C, ULTRIUM5C,	JLTRIUM5,UL ULTRIUM5,UL
Virtual FS Mapping Virtual FS Mapping Client Schedules Admin.Schedules Events Devices/Storages Device Classes Storage Pools Containers Cloud Hardware	✓ 1	r\$3500	DRIVE06	LTO	EMPTY		262	00078AE960	500507630F050705	ULTRIUM5C,	JLTRIUM5,UL
LibrariesData Movers											
SAN Dashboard	Details Drive: Library Nar	DRIVE02 me: TS3500			Di	rive State: plume Name:	EMPTY	,			
Activity Log	Device Typ On-Line:	e: LTO YES		10.0	Al	located to: erial Number:	00078	A0CA2			
Command Line	Read Form Write Form	ats: ULTRIUM5C,ULTRIUM5,U ats: ULTRIUM5C,ULTRIUM5,U	JLTRIUM4C,ULTRIUM4,ULTRIUI JLTRIUM4C,ULTRIUM4	M3C,ULTRIUM	13 CI W	eaning Frequency WN:	50050	7630F050704	0.00		
⑦ ADSM help	Element:	25/			La	ist opdate:	ISMEX	(P / 23-06-06 1	0:02		

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Replication	Library N	lame Volume Name	Status	Last Use	Device Type	Media Type	Home Element	Owner	Cleanings Left						
Proxy Nodes	TS3500	AB0020L5	Private	Data	LTO	LTO-5	1129								
Occupancy Client Option Set	TS3500	AB0021L5	Private	Data	LTO	LTO-5	1042								
Backup Set	TS3500	AB0022L5	Private	Data	LTO	LTO-5	1098								
At-Risk Nodes	TS3500	AB0023L5	Scratch		LTO	LTO-5	1054								
Virtual FS Mapping	TS3500	AB0024L5	Private	Data	LTO	LTO-5	1130								
Schedules/Events	TS3500	AB0025L5	Private	Data	LTO	LTO-5	1093								
Client Schedules Admin Schedules	TS3500	AB0026L5	Private	Data	LTO	LTO-5	1062								
Events	TS3500	AB0027L5	Private	Data	LTO	LTO-5	1131								
Main and Comparison a	TS3500	AB0028L5	Private	Data	LTO	110-5	1051								
Device Classes	T\$3500	AB0029L5	Drivato	Data	ITO	110-5	1080								
Storage Pools Containers	T00500	AB0023E5	Drivete	Data	LTO	LTO F	1000								
Cloud	133500	ABOUSULS	Private	Data	LIU	LIU-5	1033								
A Bardware	153500	AB0031L5	Private	Data	LTO	LTO-5	1060								
Libraries	TS3500	AB0032L5	Private	Data	LTO	LTO-5	1072								
Data Movers	TS3500	AB0033L5	Private	Data	LTO	LTO-5	1041								
• SAN	TS3500	AB0034L5	Private	Data	LTO	LTO-5	1034								
C Dashboard	TS3500	AB0035L5	Private	Data	LTO	LTO-5	1132								
Activity Log	TS3500	AB0036L5	Private	Data	LTO	LTO-5	1082								
Sessions/Processes	TS3500	AB0037L5	Private	Data	LTO	LTO-5	1133								
Command Line	Status: Priv	vate													
⑦ ADSM help	Volume: AB	0020L5													

Enterprise Administration

Enterprise Administration item allows to manage server's interaction

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Servers Servers	Co-sou	th 🛙										
 Backup Set 	Servers											
At-Risk Nodes		lew										
Schedules/Events	Server Name	IP Address	TCP/IP Port	Node	Comm.Method							
Client Schedules	TSM1	1(3	1500		TCPIP							
Admin.Schedules												
Events												
Devices/Storages												
Device Classes												
Storage Pools												
 Containers 												
• Cloud												
A Hardware												
Libraries Data Mayora												
 Data movers SAN 												
Enterprise												
Servers	Detaile											
Server Groups	Server Name:	TSM1				Allow Arch.Deletion?:	YES	Received by Server:	181			
Profile	Comm.Metho	d: TCPIP				Grace Deletion Period:	5	Sent to Client:	217			
 Subscribers 	IP Address:	1	13			SSL:	×	Duration:	0.23 sec.			
Event Handling	TCP Port:	1500				Session Security:	Strict	Idle Wait:	-			
 Export Operations 	Replacement:	×				Register by:	ATOM	Communication Wait:	-			
Dashboard	Node:					Managing Profile:		Volime mount Wait:	-			
Activity Log	Last Access:	24-04-15	15:09:44			Server Password:	Yes	Virtual Vol.Password Set:	No			
Ch Cassions /Drasso	Locked:	NO				Set Password:	2019-08-03 20:12:29	Validate Protocol:	No			
Contractions/Processes	Compression	NO				Invalid Sign-on Count:	0					
Command Line	Description:											
② ADSM help	URL Web Clie	nt:										

Server Maintenance

Server Maintenance item allows to:

- Manage database SP, define volumes for database, define triggers
- Manage Recovery Log, define volumes for Recovery Log, define triggers
- View volume history
- Create and edit scripts
- Create and edit user accounts, define user rights
- View and register SP licenses
- View PVU
- View SP table structure

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Servers Co-north ×	Co-south 🛛										
Events Devices/Storages Device Classes	Database/Logs Databa	ase/Logs Usage	• DB backups • Set Op	tions							
 Storage Pools Containers Cloud Pardware 	Database Database Name: Size of file system: Space used	TSMDB1 548.0 GB 437.1 GB (82.4 %)	Full Device Class: Last Complete Backup: Buffer Poll Hit Ratio:	DBB 24-0 95.6	04-15 12:50 %	Arch.Log Used Threshold: Streams: Sort Overflows:	80 % 1 0				
LibrariesData MoversSAN	Free space available: Compress DB backup: Protect keys:	93.6 GB × ×	Reorg BeginTime: Reorg Duration: Package Cache Hit Ratio:	14:00 10 99.4	%	Increment. since Last Full: Allow Reorgtable: Last DB Reorganization:	0 ✓ 24-04	14 18:3	7		
Enterprise Servers Server Groups Profile Subscribers Event Handling Export Operations	Active Log Active Log Directory: Total FS Space: Free FS Space: Active Log Size: Mirror Log Directory:	(netapp/activelog 198.0 GB 130.0 GB 64.0 GB netapp/mirrorlog			Archive Log Space Used Total Size of File System: 50 Archive Log Compressed: X Archive Log Directory: /nr Failover Log Directory:	0.0 GB stapp/archivelog		21.4	GB (4.3	%) - 500	.0 GB
- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Database Volumes										
 Database/Logs Volume History Tape Health Scripts Administrators 	Location /tsmdb/tsmdb001 /tsmdb/tsmdb002 /tsmdb/tsmdb003										
C Dashboard Activity Log Sessions/Processes C Command Line D ADSM help	/tsmdb/tsmdb004										

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TSMExplorer													愈	:
Servers Co-north ×	Co-south 🛛													
Data Movers	Volume History													
• SAN	Begin: 01/0	4 / 2024 × Er	nd: 15 / 04 / 2	2024 - OK					Any Type	(🔍 search		
Servers	Date/Time	Туре	Device Class	Volume Name										
Server Groups	24-04-15 12:51:20	BACKUPFULL	DBB	L50166L5										
Profile	24-04-14 15:27:05	STGNEW	LTOLIB	L50175L5										
Subscribers Event Handling	24-04-14 15:23:52	STGNEW	LTOLIB	L50161L5										
 Export Operations 	24-04-11 04:34:53	STGNEW	LTOLIB	L50136L5										
- 🎇 Maintenance	24-04-11 03:18:09	STGNEW	LTOLIB	L50215L5										
Database/Logs	24-04-09 16:30:44	STGDELETE	LTOLIB	L50161L5										
Volume History Tane Health	24-04-09 13:30:44	STGDELETE	LTOLIB	L50215L5										
Scripts	24-04-08 12:42:01	STGNEW	LTOLIB	L50233L5										
Administrators	24-04-07 10:38:05	STGNEW	LTOLIB	AB0099L5										
Licenses	24-04-04 15:09:04	STGNEW	ITOUB	BN002915										
SP Tables	24 04 03 13:30:39		LTOUR	AR00021 E										
	24-04-03 12-30-38	STODELETE		ABOUSZES										
Server Activity	24-04-03 05:26:38	SIGNEW	LIOLIB	L50221L5										
Daily Amount	_24=04=01 09:17:46 Details	STGNEW	I TOUR	1 50219 5										
P Remote Access	Date/Time:	24-04-15 12:51	:20			Obj ID:	1	D						
Dealtheard	Type:	BACKUPFULL				DB Backup Home Position:	(0)	0						
	Device Class:	4220				DB Backup Total Data Bytes[M	NBJ:))						
activity Log	Backup Operation:	4230 0				DB Backup Stream Id:	oj.	1						
Sessions/Processes	Location:					DB Backup Vol.Sequence for S	Stream:	10000	1					
Command Line	Command:													
ADSM help	Volume Name: L50	166L5												

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TSMExplorer												愈	:
Servers Servers	× 📑 Co-south 🛛												
Data MoversSAN	Volume History												
Enterprise	Begin: 01/0	14 / 2024 🔻 Er	nd: 15/04/2	024 TOK				Any Type		*	search		
 Servers 	Date/Time	Туре	Device Class	Volume Name									
Server Groups	24-04-15 12:51:20	BACKUPFULL	DBB	L50166L5									
Profile	24-04-14 15:27:05	STGNEW	LTOLIB	L50175L5									
SubscribersEvent Handling	24-04-14 15:23:52	STGNEW	LTOLIB	L50161L5									
Export Operations	24-04-11 04:34:53	STGNEW	LTOLIB	L50136L5									
- 💥 Maintenance	24-04-11 03:18:09	STGNEW	LTOLIB	L50215L5									
Database/Logs	24-04-09 16:30:44	STGDELETE	LTOLIB	L50161L5									
Volume History	24-04-09 13:30:44	STODEL ETE	ITOUR	15021515									
lape Health Seriete	24-04-03 13:30:44	STODLETE	LIGLID	20021020									
Administrators	24-04-08 12:42:01	STGNEW	LTOLIB	L50233L5									
	24-04-07 10:38:05	STGNEW	LTOLIB	AB0099L5									
• PVU	24-04-04 15:09:04	STGNEW	LTOLIB	BN0029L5									
SP Tables	24-04-03 12:30:38	STGDELETE	LTOLIB	AB0092L5									
DRM Server Activity	24-04-03 05:26:38	STGNEW	LTOLIB	L50221L5									
laily Amount	24-04-01 09-17-46	STGNEW	I TOUR	1 502191 5									
🔑 Remote Access	Date/Time:	24-04-15 12:51	:20		Obj ID:		0						
	Type:	BACKUPFULL			DB Backup Home Position:		0						
Dashboard	Device Class:	DBB			DB Backup Total Data Bytes	s[MB]:	0						
Activity Log	Backup Series:	4230			DB Backup total Log Bytes[MB]:	0						
Car Activity Log	Backup Operation:	0			DB Backup Stream Id:		1						
C Sessions/Processes	Location:				DB Backup Vol.Sequence for	or Stream:	10000	1					

🕞 Command Line

② ADSM help

Command: Volume Name: L50166L5

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TSMExplorer														ŵ	1
Servers Servers	Co-sout	th 🖂													
Data Movers	Administrators	1													
 SAN Enterprise 	5 O N	lew 12											٩	search	
Servers	Administra	tor	Contact	Email A	Authentication	Session Security	System Privileges	Locked	Password Expiration	Reg.Date	Last Access				
Server Groups Profile	ADN				Local	Strict	YES	NO	NEVER	16-03-31 21:08	19-09-14 12:05				
Subscribers	ATO				Local	Strict	YES	NO	NEVER	16-03-31 16:05	22-04-23 19:57				
Event Handling	CNS	NGE_EXC			Local	Transitional	NO	NO	NEVER	16-07-20 19:24	24-04-10 04:34				
Export Operations	CON	н			Local	Transitional	NO	NO	NEVER	16-04-04 12:32	24-04-12 21:43				
 Database/Logs 	DEN				Local	Strict	YES	NO	NEVER	18-04-16 11:56	22-06-20 15:18				
Volume History	OPE				Local	Transitional	NO	NO	NEVER	17-09-20 10:13	17-09-20 17:21				
Tape Health	SER	NSOLE			Local	Strict	YES	NO		16-03-31 16:01					
Administrators	TSM				Local	Transitional	NO	NO	NEVER	16-04-04 12:32	18-04-16 14:37				
Licenses	TSM				Local	Strict	YES	NO	NEVER	20-06-20 15:21	24-04-15 14:57				
• PVU	TSM				Local	Strict	YES	NO	NEVER	21-05-18 21:31	24-04-15 14:58				
SP Tables O DRM	TSM				Local	Strict	YES	NO	NEVER	20-06-21 12:33	20-12-01 19:56				
Server Activity	Detelle	-			Land	Obiot	NO	NO	NEVER	00 07 00 00.50	04 04 45 40.5F				
Daily Amount	Administrator:	AD				Invalid Si	gn-on Cour	nt: O			Email:				
P Remote Access	Contact:					Session S	Security:	Strict			System Privile	ges: 🗸			
Dashboard	Locked:	NO				SSL Requ	iired:	Defau	lt		Operator Privi	leges: ×			
	Password Expl	file	er			Authentic	ation:	Local							
Activity Log	Domain Privile	des:	* Includer	with ev	stem privilege										
C Sessions/Processes	Storage Privile	ges:	* Included	d with sy	stem privilege	**									
E Command Line	Client Access	Privileges:	* Included	d with sy	stem privilege	••									
(?) ADSM help	Client Owner F	Privileges:	* Included	d with sy	stem privilege	**									

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DRMedia

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TSMExplorer															ŵ	:
Servers Co-north ×	Co-sout	th 🛙														
Data Movers	Disaster Recov	ery Media														
SAN Enterprise	🔳 🚺 🕞 DR	M Status	 Move DRMed 	lia 1					Any State		Any Location			search	1	
Servers	Volume Name	Vol.Status	State	Volume Type	Library Name	Storage Pool	Location	Update Date								
Server Groups	L50166L5		MOUNTABLE	DBBackup	TS3500			24-04-15 12:51								
Profile																
 Subscribers 																
Event Handling																
Export Operations																
Maintenance																
Volume History																
Tape Health																
 Scripts 																
 Administrators 																
Licenses																
• PVU																
 SP Tables 																
∠O DRM																
DRM Media																
DRM Machine DRM Deservery Media																
DRM Recovery Plan																
Dashboard																
activity Log																
Sessions/Processes																
D Command Line																
() ADSM help																

Server Activity

The item allows to perform the following operations:

- View history of current activity
- View activity timeline of migration, backup, archive processes

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TSMExplorer											ŵ	:
Servers Servers	: <u>-</u>	Co-south	×									
Server Groups	Activity	Sessio	ns/Rates									
ProfileSubscribersEvent Handling	• Time	line 19	11 Any Type	Begin: 1 End: 1	15/04/2024 • 0 15/04/2024 • 1	3:00 🗘 7:00 🗘 ОК		Unsucc	essful: 🗌	۹۶	earch	
 Export Operations 	Status	Start Tir	ne	Duration	Process	Association	Schedule	Processed	Objects	MB/s	As Entity	
-X Maintenance	\checkmark	24-04-1	5 12:15:05 24-04-15 12:15:08	00:00:03	ARCHIVE	SA R3		158.8 KB	2	0.1		
 Database/Logs Volume History 	~	24-04-1	5 12:12:22 24-04-15 12:12:33	00:00:11	ARCHIVE	XB 3		189.1 KB	2			
Tape Health	\checkmark	24-04-1	5 12:11:43 24-04-15 12:12:17	00:00:34	ARCHIVE	XB 3		94.5 MB	2	2.8		
 Scripts 	~	24-04-1	5 12:11:10 24-04-15 12:29:16	00:18:06	BACKUP	SEI	DEFAULT_INC_D_HOUR_3	38.8 GB	3 911	36.5		
Administrators	\checkmark	24-04-1	5 12:11:04 24-04-15 12:11:13	00:00:09	ARCHIVE	SA R3		241.4 KB	2			
PVU	\checkmark	24-04-1	5 12:11:00 24-04-15 12:11:01	00:00:01	ARCHIVE	SA R3		18.5 KB	2			
 SP Tables 	~	24-04-1	5 12:10:59 24-04-15 12:10:59	00:00:00	POOLPRIMUTILGB	R3. DOL		17.6 KB	0			
-O DRM	~	24-04-1	5 12:10:59 24-04-15 12:10:59	00:00:00	POOLPRIMUTILGB	LTC		148.9 KB	0			
DRM Media DRM Machine	\checkmark	24-04-1	5 12:10:59 24-04-15 12:10:59	00:00:00	POOLPRIMUTILGB	EX GPOOL		54.0 KB	0			
DRM Recovery Media	~	24-04-1	5 12:10:59 24-04-15 12:10:59	00:00:00	POOLPRIMUTILGB	BU POOL		2.0 KB	0			
 DRM Recovery Plan 	~	24-04-1	5 12:08:19 24-04-15 12:08:22	00:00:03	ARCHIVE	XB 3		188.2 KB	2	0.1		
Server Activity		24-04-1	E 12:09:14 24-04-15 12:09:15	00:00:01	ADCHIVE	VP 2		1/16 KP	2	0.1		
Daily Amount		24-04-1	0 12:00:14 24-04-10 12:00:10	00.00.01	ARCHIVE	AD 3		141.0 KB	2	0.1		
Remote Access	Proce	IS SS:	ARCHIVE (3367761)		Objects:	2	Library Name	r: –				
Dashboard	Start	Time:	24-04-15 15:23:19		Failed Objects:	0	Drive:	-				
	End T	ime:	24-04-15 15:23:21		Processed:	244.0 KB	Volume Name	e: –				
Activity Log	Addre	SS:	1 5:9904		Idle:	1 sec.	Last Use:					
C Sessions/Processes	Scheo	tule: ression:	821.0 KB		0: Num.Offise Vols:	0 sec.	Current com	n wait: 0				
Command Line	Dedu	olication:	36.0 MB		Processes:	2						
⑦ ADSM help	Node:	XBP02_	R3									

Daily Amount



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TSMExplorer							¢ 🛓
Servers Servers	Co-south	×					
Server GroupsProfile	Backup/Restore	Backup/Restore by N	lode				
Subscribers		Date: 15	/ 04 / 2024 Type: Backup/Archive	e 🔹 Group: Any	 Domain: Any 	CK OK	
Event Handling				Backup/Archive			
 Export Operations 		0 B	2 TB	4 TB		5 TB	7 TB
Maintenance	N 6 20						
 Database/Logs 	M_3 H3						6.1 TB
Volume History Toron Unother	43		809.0 GB				
Scripts	KH-DO.	198.7 GB					
Administrators	KH =5	188.3 GB					
Licenses	RE 01	174.6 GB					
• PVU	KH-BSP(RV	118.0 GB					
SP Tables	V2	101.3 GB					
ORM	JL	77.4 GB					
DRM Media	SE	75.6 GB					
DRM Machine	KH-BPC RV	74.2 GB					
DRM Recovery Media	V2	45.3 GB					
DRM Recovery Plan	łN	29.6 GB					
Server Activity	KH-M 01	23.6 GB					
Daily Amount	- AV	21.8 GB					
Remote Access	F JI	18.4 GB					
	LC DN	18.2 GB					
C Dashboard	C PP	16.0 GB					
de Activity Log	ARN 'K	13.5 GB					
Sessions/Processes	KH-MS(PF	10.3 GB					
	ER	6.5 GB					
Command Line	OTHER	186.9 GB					
⑦ ADSM help							

Dashboard

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TSMExplore	er																ŵ.	-
Servers	Co-north	Co-s	outh 🛚 🤇	Co-north >	5													
TSM2									Storage Pool	s								
Address: 1	32 TSM	A Request: Nor	пе						BUFFER_POOL	2.	2 TB - 2.9 TB	XCH_STGPOOL	53.9 TB - 6	0.0 TB LTOPOC	IL E	148.1	TB - 341.4	4 TB
Schedules f	or the last 24 h	ours							R3_STGPOOL	17.6	TB - 38.0 TB							
missed: 🧿	completed: 2	03 failed: 2					Events	Activity	Paths / Drives	S								
Sessions									All paths are o	nline info	All drive	are online inf	0					
Sessions: 8					Enable	session:	enabled	Details	Tape Usage									
Client Name	TCP/IP Name	Address	Bytes Sent	Bytes Recvd	State	Platform			TS3500		S	cratch: 9 Total: 1	98					
KI	KH FSS	10.111121	82.2 KB	144.4 GB	IdleW	WinNT			Mounted Vol	umes								
KI	KH -SS	10. 21	2.6 KB	2.6 KB	IdleW	WinNT			Library Name	Device Ty	pe Drive	Volume Nam	ne Drive State					
KI PP	KH PP	10. 245	5.0 KB	140.8 GB	RecvW	WinNT			TS3500	LTO	DRIVE0	3 L50161L5	LOADED					
KI PP	KH PP	10. 245	52.0 MB	61.8 MB	IdleW	WinNT			TS3500	LTO	DRIVE0	4 L50231L5	LOADED					
KI PP	KH PP	10. 245	3.2 KB	25.9 GB	Run	WinNT												
KI PP	КН РР	10. 245	88.0 MB	104.5 MB	IdleW	WinNT												
KI PP	KH PP	10. 245	42.6 KB	1.1 KB	IdleW	WinNT												
P/ 3	PAL	10. 0.13	56.4 KB	4.6 KB	IdleW	WinNT												
								_										
Rate [MB/s]									Processes			in the n	Oto to a					
	Reciev	ed (clients) 🛛 Se	ent (clients) 🥚	Recieved (serve	rs) 🔴 Sei	nt (servers)			24=04=15 13:1	Dur 80:47 01:5	54:28 Space	Reclamation	Volume I 5023	11 5 (storage			Moved F	iles
100.0 80.0			~		~				24-04-10 13-0	50.47 01.0	04.20 Spac	Reclamation	Volume Loozo	inco (storage	0001 21 01	-00L), K	noveu F	lies.
¥ 40.0 20.0	~~	M	/~		~	-		~										
0.001	30 01:40 0	1:50 02:00	02:10 02:20	0 02:30 0	2:40 02	2:50 03:	00 03:10	03:20										

Activity Log

Open a tab or a separate window for convenient viewing of the Activity Log. You can indicate various parameters for the selection of logs, as well as select filters to choose the required log entries.

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TSMExplore	r															admin	logout 🔅
Servers	Co-	north 🛛	Co	-south	🕜 Co-south	Co-north 🗙											
CO-NORTH	Auto-refre	sh: 🗸	UTF-8	•	Server: 🗸	Client: 🗹	Informat	ion: 🗹	Warning:	\checkmark	Error:	\checkmark	SQL	\checkmark	Star	t/Stop sessior	is:
Date	N	ode Sche	dule Help	o Code	Administrator	Message											
2021-08-01 0	3:31:22		2	ANR0951I		Session 3571887 for no	de S	processed 1 fi	les by using	inline data d	leduplication	on or comp	ression	, or both	. The num	ber of original	bytes was 131,0
2021-08-01 0	3:31:22		?	ANR0951I		Session 3571885 for no	de S	processed 2 fi	les by using	inline data c	leduplication	on or comp	ression	, or both	. The num	ber of original	bytes was 262,18
2021-08-01 0	3:31:22		2	ANR0951I		Session 3571886 for no	de S	processed 1 fi	les by using	inline data o	leduplication	on or comp	ression	, or both	. The num	ber of original	bytes was 131,09
2021-08-01 0	3:31:22		2	ANR0951I		Session 3571884 for no	de S	processed 4 fi	les by using	inline data d	leduplication	on or comp	ression	, or both	. The num	ber of original	bytes was 1,704
2021-08-01 0	3:31:22		?	ANR0950I		Session 3571887 for no	de S	is using inline	server data	deduplicatio	n or inline	compressi	on. (SE	SSION: 3	8571887)		
2021-08-01 0	3:31:21		?	ANR0950I		Session 3571886 for no	de S	is using inline	server data	deduplicatio	n or inline	compressi	on. (SE	SSION: 3	8571886)		
2021-08-01 0	3:31:20		2	ANR0950I		Session 3571885 for no	de S	is using inline	server data	deduplicatio	n or inline	compressi	on. (SE	SSION: 3	8571885)		
2021-08-01 0	3:31:20		?	ANR0950I		Session 3571884 for no	de S	is using inline	server data	deduplicatio	n or inline	compressi	on. (SE	SSION: 3	3571884)		
2021-08-01 0	3:31:15		?	ANR0951I		Session 3571869 for no	de S	processed 1 fi	les by using	inline data d	leduplication	on or comp	ression	, or both	. The num	ber of original	bytes was 171,46
2021-08-01 0	3:31:15		?	ANR0951I		Session 3571868 for no	de S	processed 1 fi	les by using	inline data d	leduplication	on or comp	ression	, or both	. The num	ber of original	bytes was 171,07
2021-08-01 0	3:31:14		()	ANR0950I		Session 3571869 for no	de S	is using inline	server data	deduplicatio	n or inline	compressi	on. (SE	SSION: 3	3571869)		
2021-08-01 0	3:31:12		?	ANR0950I		Session 3571868 for no	de S	is using inline	server data	deduplicatio	n or inline	compressi	on. (SE	SSION: 3	8571868)		
2021-08-01 0	3:31:00		2	ANR0951I		Session 3571861 for no	de S	processed 1 fi	les by using	inline data d	leduplication	on or comp	ression	, or both	. The num	ber of original	bytes was 171,99
2021-08-01 0	3:30:58		?	ANR0950I		Session 3571861 for no	de S	is using inline	server data	deduplicatio	n or inline	compressi	on. (SE	SSION: 3	3571861)		
2021-08-01 0	3:30:18		?	ANR4936I		The reclamation of the	TOPOOL stora	ige pool is comp	olete. Numbe	r of files red	laimed: 0.	Number o	f reclai	med byte	s: 0. Num	ber of reclaim	ed deduplicated by
2021-08-01 0	3:30:18		?	ANR09851		Process 3367 for SPACE	RECLAMATIO	N running in the	BACKGROU	IND complet	ed with co	mpletion s	tate SU	CCESS a	t 03:30:18	. (PROCESS:	3367)
2021-08-01 0	3:30:18		?	ANR4932I		Reclamation process 33	57 ended for s	storage pool LTC	POOL. (PRO	CESS: 3367)						
2021-08-01 0	3:30:18		?	ANR10411		Space reclamation ende	d for volume /	AB0039L5. (PRC	DCESS: 3367	')							
2021-08-01 0	3:30:18		2	ANR0197E		Removal of extraneous	database entri	es for volume A	B0039L5 fai	led due to c	ontention v	vith other	server (processe	s or activiti	es. (PROCESS	: 3367)
2021-08-01 0	3:30:18		?	ANR0199W		Not possible to repair ve	lume AB0039	L5 due to other	database re	ferences to	this volum	e. (PROCE	SS: 336	57)			
2021-08-01 0	3:30:18		?	ANR0195W		Attempting to remove e	xtraneous data	abase entries fo	or volume AB	0039L5. (PF	ROCESS: 3	367)					
2021-08-01 0	3:30:18		?	ANR1044I		Removable volume AB0	039L5 is requi	red for space re	clamation. (PROCESS: 3	367)						
2021-08-01 0	3:30:18		2	ANR1040I		Space reclamation start	ed for volume	AB0039L5, stor	rage pool LTC	OPOOL (proc	ess numbe	er 3367). (PROCE	SS: 3367)		
2021-08-01 0	3:30:18			ANR49301		Reclamation process 33	57 started for	primary storag	pool LTOPC	OL automat	ically, thre	shold=70,	duratio	n=None	(PROCESS	5: 3367)	
Online Acti	vity Log	Activit	y Log														

TSMExplorer Servers	□ ✓ 〈 □	> x (Co-s i	outh	Co-north	Co-north	€ 10 € 00-	-north ×	020/start		0 0 5	☆	of (1)	ඪ + ũ \$) © 1
Sessions Disable clie Disable adm	nts sessions	() () () () () () () () () () () () () (~		 Recieved (c Sent (clients Recieved (s Sent (serve 	:lients) s) servers)
Shown	request	0	1:30	01:40 01:5	0 02:00	02:10	02:20	02:30	02:40 02:50	03:00	03:10	03:20		
Clie	ents: 9 Se	rvers: 0 Se	end: 0.0	MB/s Receive:	0.0 MB/s	Session Statu	is: enabled			Admin.Sessions:	Auto-refre	sh: 🗹 🔍 s	earch	
Start Time		Duration	Туре	Domain Name	Client Na	me	TCP/IP N	lame	Address	Platform	Bytes Sent	Send Speed	Bytes Recvd	Recv.Spe
24-04-15 (02:08:51	13:17:52	Node	DEFAULT	KH-	-SS	KH	SS	10.10.10.101	WinNT	82.6 KB	0.0 MB/s	144.4 GB	0.0 M
24-04-15	15:25:05	00:01:38	Node	DEFAULT	KH-		KH	SS	10.1 1	WinNT	2.6 KB	0.0 MB/s	2.7 KB	0.0 M
24-04-15	13:01:44	02:24:59	Node	SAS	KH-	P	КН	p	10.1 15	WinNT	5.0 KB	0.0 MB/s	142.4 GB	0.0 M
24-04-15	13:01:44	02:24:59	Node	SAS	КН-	P	КН	pp	10.1 15	WinNT	52.3 MB	0.0 MB/s	62.1 MB	0.0 M
24-04-15	13:01:52	02:24:51	Node	SAS	KH-	P	KH	p	10.1 15	WinNT	3.2 KB	0.0 MB/s	26.6 GB	0.0 M
24-04-15 1	13:01:53	02:24:50	Node	SAS	КН-	Р	КН	эр	10.1 15	WinNT	88.9 MB	0.0 MB/s	105.6 MB	0.0 M
24-04-15 1	14:57:50	00:28:53	Node	SAS	KH-	P	КН	PP	10.1 15	WinNT	42.6 KB	0.0 MB/s	1.1 KB	0.0 M
24-04-15 1	13:55:16	01:31:27	Node	DEFAULT	PAL		PAL		10.1	WinNT	57.6 KB	0.0 MB/s	4.8 KB	0.0 M
24 04 15 1	15-26-42	00.00.00	Mada	TDD D2	VDD		VPD02		10 10 10 25	TOD CAD Linux	20.00	0.0 MP/o	500 A B	0.0 M
Processes - 1														
= 0														
Start Time		Duration	Descri	ption	Files	Amount	Speed	Status						
24-04-15 1	13:30:47	01:55:59	Space	Reclamation	187 918	336.5 GB	49.5 MB/s	Volume L502	31L5 (storage pool LTO	POOL), Moved File	es: 187948, Mo	oved Bytes: 3	36 GB, Dedup	licated By

Sessions/Processes/Requests

Command Line

Command Line opens a separate window for enhanced graphic mode of SP dsmadmc console. The console allows you to display the results of commands in the List or Table mode. The user can run separate SP commands and predefined SP scripts.

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Elapsed	Time: 1.86 s. Request: o	q domain				🔍 search 🖉
POLICY DOMAIN NAME	ACTIVATED POLICY SET	ACTIVATED DEFAULT MGMT CLASS	NUMBER OF REGISTER	ED NODES DESCRIPTION		
A	STANDARD	FILE	3			
A	STANDARD	FILE	1			
C	STANDARD	FILE	10			
D. S	STANDARD	ORACLE	9			
D	STANDARD	FILE	82			
D	STANDARD	FILE	2			
FI	STANDARD	FILE	5			
FF	STANDARD	FILE	11			
М	STANDARD	FILE	5			
M	STANDARD	FILE	9			
P/	STANDARD	FILE	2			
S,	STANDARD	FILE	4			
S,	STANDARD	FILE	15			
S/	STANDARD	FILE	39			
S,	STANDARD	FILE	4			
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List Table Scrip	ots					
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Help ADSM

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TSMExplorer		TSM Help	\otimes	0	
Servers Co-north >	× 📭	Command or Code: reg node	- Submit		
Server Groups	Backur	Subcommands: (1)			
Profile	Duckup	the target			
Subscribers		replication		ОК	
Event Handling		server.			
Export Operations		++			7 70
- 🎇 Maintenance					718
Database/Logs	M			6.1 TB	
Volume History		Privilege class			
 Tape Health 	KH-E				
 Scripts 	ŀ	To issue this command, you must have system privilege, unrestricted			
 Administrators 		to which the client node is assigned.			
Licenses	KH-BS				
PVU					
 SP Tables 		Syntax			
		5 North			
DRM Media		>>-REGister Nodenode_name+++>			
DRM Machine	KH-BI	'-password-'			
DRM Recovery Media		-USerid=-NONE			
DRM Recovery Plan		>+			
Server Activity	KH	(1) '-USerid=-+-NONE+-'			
Daily Amount		'PASSExp=days-' '-user_id-'			
Remote Access		DOmain=-STANDARD			
		>+			
🕑 Dashboard		'-CONtact=text-' '-DOmain=domain_name'			
Activity Log	A	COMPression=ClientARCHDELete=Yes			
Sessions/Processes	KH-N	'-COMPression=-+-Client++' '-ARCHDELete=-+-Yes++-'			
Command Line		+-Yes+ '-No'	 		
(?) ADSM help					

Statistical Reports

Collector performs statistics collection based on SP server with predefined intervals. Statistical data are displayed in charts for your convenience. Based on charts analysis you can understand the current state of the system and the dynamics of its development. Statistical reports include:

- Database usage stats are collected once a day
- Recovery Log Usage stats are collected every 15 minutes
- Daily amount of operations backup, archive, restore, retrieve, migration stats are collected once a day
- Disk and File pool usage stats are collected every 15 minutes
- Sequential pool usage stats are collected once a day
- Tape usage stats are collected once a day
- Session stats are collected every 15 minutes

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 Dashboard Servers IBM Libraries Information Approvals Alerts Failed Events Storage Pools Libraries Tape Health Nodes Virtual Machines Retention Sets Occupancy Remote Access Collector Reports Alerts Statistics/Config Operation Log 	Statistic/Config	an I		Server: CO-F	IORTH (*) Database Database Mar '24 Activity Log/Arch Activity Log/Arch	Database/Log Usage	20 Mar	Ą	yr '24	10 Apr
S Groups/Users ⊡ SMTP	90 % 80 % 70 % 60 % 30 % 20 % 10 % 0 %	Activity Log: 1% Archive Log: 4%	12 Apr	_1_	13 Apr	1	4 Apr	1	15 Apr	M







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	Client-sid	e Deduplicati	Lon Verificat	ion Level: 0	fenc.									
Tape Health			Schedul	ing Modes: An	Y									
Nodes		c	Configuration	manager?: Of:	E ACTLOG									
Virtual Machines			Refresh	interval: 60										
Retention Sets		I	Last refresh	date/time: Messaging: Of	f									
	Tabl	e of Contents	s (TOC) Load	Retention: 12	0 Minute(s)									
Remote Access		Machi	ine Globally	Unique ID: ca	.41.cc.2c.fl.ae	.11.e5.bc.e8.	56.83.	be.d2	.80.02					
		Archive	Database Di	rotection: Of rectories: /t	r smdb/tsmdb001,/	tsmdb/tsmdb002	2./tsm	db/ts	mdb003,/t	smdb/t	mdb0	04		
Reports		Total Space	ce of File Sy	stem (MB): 56	1,152.00									
Alerts		Used Spac	ce on File Sy	stem (MB): 47	0,385.32									
Statistics/Config		1166	Encryption	Strength: AE	s									
Operation Log	Clien	t CPU Informa	ation Refresh	Interval: 18	0									
Groups/Lisers		Tarc	Outbound Re	plication: En on Server: TSI	abled M1									
SMTP	De	fault Replica	ation Rule fo	r Archive: AL	L_DATA									
	D	efault Replic	cation Rule f	or Backup: AL	L_DATA									
	Derault Rep R	eplication Rule	e for Space M ecord Retenti	on Period: 30	Dav(s)									
				LDAP User:										
		-	LDAP Pas	sword Set: No	221									
		Failov	ver High Leve	1 Address:	Jai									
			Scratchpad	retention: 36	5 Day(s)									
	Rep	lication Reco	overy of Dama	ged Files: On	0 70									
		SU	JR Occupancy	Date/Time: 20	24-04-10 12:39:	03								
		Fr	cont-End Capa	city (MB): 14	0,953,578.02									

Mail Server Registration

To send reports and alerts, users must first determine the SMTP mail servers. To improve reliability, you can define two SMTP servers. If one of them is unavailable, collector will attempt to send information via the second SMTP server.

Registration of any new SMTP Server includes the following parameters:

- SMTP server
- SMTP port
- From name
- From email
- Username and Password for SMTP with authentication
- Use SSL connection
- TLS enabled

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• Information	Address:	-											
Approvals	Port:	25											
Alerts	SSL:	×											
Failed Events	TLS:	\checkmark											
Storage Pools	Name from:	: TSMExplorer											
Libraries	Email from:	tsm@rosenergoatom.ru	1										
lape Health	Active:	\checkmark											
Nodes		Send test ma	iil										
Virtual Machines		Properties											
Retention Sets		Delete											
Occupancy													
Remote Access	Secondary	SMTP server		Transport	1.00								
Collector	Address:			Inditoport	209								
Reports	Port:	25											
Alerts	SSL:	×											
Statistics/Config	TLS:	~											
• Operation Log	Name from:	:											
Groups/Users	Email from:												
SMIP	Active:	×											
		Send test ma	ail										
		Properties											
		Delete											

User and Users Group Registration

In order to send reports and alerts it's necessary to create user and include him into the user's group.

Registration of any user includes the following parameters:

- Name
- Email
- Description
- Type user (System Administrator, SP Administrator, Client)
- Type authentication (local, login for LDAP: login@domain)
- Password

Local super administrators

- local authorization/ LDAP authorization
- add/modify users, groups, servers, remote access list, reports, alerts, smtp, connect to SP servers with
 registered credentials or "connect as" after authentication.

SP administrators/operators

- SP authorization only, administrator gets list of servers with current personal credential
- SP operations with personal SP credentials or "connect as" after authentication with new credential
- View statistic for successful access SP servers
- To access via SP authorization, there is no need to create a user account inside the application..
- Using this role if you have many servers with other admins and operators with difference credentials and roles inside SP environment.

Users

- local, LDAP user/LDAP group authorization or without authorization (for getting reports via email)
- Getting reports via email
- Access to mini-portal for controlling and checking status of backups for selected nodes groups

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Servers		Nov	Chack SD Crad				Role: ALL		-	search	R
IBM Libraries		I IVEV	The check of cred				ALL		Pemote	search	
10 Information	Active 1	Name		Email	Login	Role	Authentication	LDAP group	Access	Last Update	Des
Alerts Alerts Alerts	V 1	· · ·	V	V		Client	None		\checkmark	22-01-05 01:50	
Failed Events	~ (c	cl	Client	LDAP User		~	18-06-06 10:51	
 Storage Pools 	√ [Labore	d	a)	System Administrator	LDAP User		×	23-02-10 00:02	
Libraries	V F			fé		Client	None		~	21-01-21 10:39	
 Nodes 	V F		n	fé		Client	None		~	21-12-15 20:07	
Virtual Machines	V F			fc .		Client	None		~	22-04-06 13:59	
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Alerts	✓ I			iv .		Client	None		×	23-02-16 15:25	
 Statistics/Config 	V ł		and the second se	k .		Client	None		~	20-10-22 13:55	
Operation Log			-								
Groups/Users	Details	Node's	Groups to View								
SMTP	Active:	`									
	Name:	ŀ									
	Email:	V	3								
	Login:	-									
	LDAP Gr	oup:									
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10 Information	Active Name	Email	Lo	ogin	Role	Authentication	LDAP group	Remote	Last Update	Des
Approvals	Define					ne		~	22-01-05 01:50	
Failed Events	Role: Client.					AP User		~	18-06-06 10:51	
Storage Pools	Client can monitor: n	odes from client's portal	, get reports.			AP User		×	23-02-10 00:02	2
Libraries						ine		1	21-01-21 10:39	
Tape Health						100			21_12_15 20:07	
Virtual Machines		Role:	Client	•		nie -		×	21-12-10 20:07	
Retention Sets	Name:	Field can't not be empty	Client			one		~	22-04-06 13:59	,
Occupancy	Email:		SP Administrator	or		one		×	23-02-16 15:26	
Remote Access	Description:	l	System Administrat			one		\checkmark	18-06-20 15:33	
- Collector	Active:	2				one		×	23-02-16 15:24	
Reports	Type Auth:	None				ne		×	23-02-16 15:25	
Aleris Statistics/Config	Login:					one		~	20-10-22 13:55	
Operation Log	Password:									
🧟 Groups/Users	Select LDAP User									
SMTP	A Select LDAP Group					≤				
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	E				Cancel OK					
	LOGIN:									
	Authentication: None									
	Role: Client									
	Last Update: 22-01-0	5 01:50:31								
	Description:									

User can access to simple interface with yourself list of nodes for monitoring.

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TSMExplorer												1	atom logout
Schedules for the last 24 hours								Ot	ojects				
		Ē	Failed: Missed: Completed:	0 1 42							Objects: 9 153 051 Reporting Space: 143.6 TB At Risk: 0		
≡ 🤌 🕨 Events 🕨 Activity 🕨 Sp	ace Usage 🛛 🕨	Filespaces I	Sessions	Nodes: 57 Objects: 9 153	051 Rep	orting: 143.	6 ТВ					Risk nodes:	🔍 search 🥖
Server Domain Node	TCP Name	Address	Version	Platform	Objects	Space	Since F	tisk Interval	Last Access	Contact			
CO-SOUTH SAPDEV SAPEED	sanoon	1	7.1.8.0	AIX (7.2)	879 988	84.9 GB	1 hours	default	2020-10-14 14:07:29				
CO-SOUTH SA V SA	si ipp	1 2:	1 6.3.1.2	Linux x86-64 (2.6.16.46-0	182 969	25.9 GB	5 hours	default	2020-10-14 10:00:41				
CO-SOUTH SALV SA	Si	1	7.1.8.0	AIX (7.2)	399 524	43.1 GB	1 hours	default	2020-10-14 14:03:43				
CO-SOUTH SALV SA	Si	1 +	7.1.8.0	AIX (7.2)	387 903	34.6 GB	1 hours	default	2020-10-14 14:18:04				
CO-SOUTH S/ DD M1	b	1	7.1.8.0	AIX (7.2)	6 352	9.8 GB	1 hours	default	2020-10-14 14:22:01				
CO-SOUTH SA DD M1	e	1	7.1.8.0	AIX (7.2)	3 825	4.5 GB	0 hours	default	2020-10-14 14:43:04				
CO-SOUTH SF OD M1	e	1	7.1.8.0	AIX (7.2)	1 744	4.3 GB	0 hours	default	2020-10-14 14:58:46				
CO-SOUTH S/ DD M1	re	1	7.1.8.0	AIX (7.2)	2 047	5.9 GB	0 hours	default	2020-10-14 14:23:58				
CO-SOUTH SA DD M1	rc	1	7.1.8.0	AIX (7.2)	627	1.4 GB	0 hours	default	2020-10-14 15:03:23				
CO-SOUTH SA DD M1	rt	1)	7.1.8.0	AIX (7.2)	58 328	11.3 GB	0 hours	default	2020-10-14 14:39:14				
CO-SOUTH SF OD M1	ri	1	7.1.8.0	AIX (7.2)	2 550	2.9 GB	0 hours	default	2020-10-14 14:59:36				
CO-SOUTH SA DD M1	rj	1)	7.1.8.0	AIX (7.2)	4 377	4.3 GB	0 hours	default	2020-10-14 15:02:59				
CO-SOUTH SA DD M1	rr	1	7.1.8.0	AIX (7.2)	8 809	4.3 GB	0 hours	default	2020-10-14 14:57:14				
CO-SOUTH SA DD M1	rs	1	7.1.8.0	AIX (7.2)	4 811	5.8 GB	0 hours	default	2020-10-14 14:54:04				
CO-SOUTH SA DD M1	n	1)	7.1.8.0	AIX (7.2)	4 245	9.3 GB	0 hours	default	2020-10-14 14:53:51				
CO-SOUTH SA DD M1	x	1	7.1.8.0	AIX (7.2)	6 192	9.0 GB	1 hours	default	2020-10-14 14:03:33				
CO-SOUTH SA DD M1	si 06	1	7.1.8.0	AIX (7.2)	126 484	45.6 GB	2 hours	default	2020-10-14 13:12:04				
CO-SOUTH SA DD M1	s;01	1	7.1.8.0	AIX (7.2)	411 717	46.3 GB	2 hours	default	2020-10-14 13:13:05				
CO-SOUTH SA DD M1	sa01	1	7.1.8.0	AIX (7.2)	80 940	37.8 GB	2 hours	default	2020-10-14 13:07:13				
CO-SOUTH SA DD M1	s- 01	1	7.1.8.0	AIX (7.2)	347 067	15.4 GB	3 hours	default	2020-10-14 12:06:36				
CO-SOUTH S# DD M1	s;01	1	7.1.8.0	AIX (7.2)	74 170	12.9 GB	2 hours	default	2020-10-14 13:03:32				
CO-SOUTH SA DD M1	s01	1 5	7.1.8.0	AIX (7.2)	84 801	29.9 GB	2 hours	default	2020-10-14 13:13:32				
CO-SOUTH SA DD M1	si 01	1	7.1.8.0	AIX (7.2)	130 087	15.0 GB	2 hours	default	2020-10-14 13:08:16				
CO-SOUTH SA DD M1	si 01	1 5	7.1.8.0	AIX (7.2)	178 649	13.3 GB	2 hours	default	2020-10-14 13:12:04				
CO-SOUTH SA DD M1	sa01	1 5	7.1.8.0	AIX (7.2)	337 401	10.6 GB			2019-12-06 09:09:04				
CO-SOUTH SA DD M1	si 01	1	7.1.8.0	AIX (7.2)	331 293	64.5 GB	2 hours	default	2020-10-14 13:15:05				
CO-SOUTH SA DD M_	e	1	7.1.8.0	AIX (7.2)	79 602	89.6 GB	0 hours	default	2020-10-14 14:52:11				
		10.10.10.20	3100	ATV (9.9)	210.205	130 1 00	A	dela de	2020 10 11 11 50.12				
Node:													
Contact:													

Reports

Collector has the function of creating reports on SP server work. The report is sent as schedule to addresses of the current group users. In case if you haven't selected the user's group, the report will still be saved in the database and can be viewed in the history tab. The report can be viewed both in TSMExplorer and browser.

List of reports

The following standard reports exist:

- Database utilization report about the state of SP database
- Recovery log utilization report about the state of Recovery log
- Volume history report about current volume history
- Failed/Missed client Schedules report about schedules with Failed/Missed status within the last N days
- All client Schedules report about all schedules within the last N days
- Nodes without schedule report about nodes without schedules
- Expiration for node less 5 days report about nodes that expire within 5 days
- New registered nodes report about new nodes for covered hours
- Administrative schedule report about administrative schedules within the last 10 days
- Failed NAS backup report about failed NAS backup for covered hours
- Server/storage agent not active server and storage agent are not active for last hour
- Drives not online report about the current state of drives
- Paths not online report about the current state of paths
- DRMedia report about the current state of DRM
- Virtual report about client activity for virtual hosts
- Client activity report about client activity for covered hours
- Storage pool summary report about the current state of storage pool
- Library volumes report about library volumes
- Volume read/write error report about the current number errors for volumes
- Unavailable volumes report about currently unavailable volumes
- Activity log message(originator=server) server's activity log for covered hours
- Activity log message(originator=client) client's activity log for covered hours

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Cashboard	Reporting profiles	Customized Requests History										
IBM Libraries	E 🖸 🕞 New									🔍 sea	ch	
1 Information	Active Name	Users Group	Encoding	Format A	ttach.	Start Time	Day of month	Day of week	Last Hours	Last Update		
 Approvals 	✓ rea ronorts	re	UTF-8	HTML	×	10:00	Any	Mo Tu We Th Fr Sa Su	24	23-06-07 14:46		
Alerts 312	× vm	ac	Cp1251	HTML	×	10:00	Any	Any	24	23-06-07 14:46		
Falled Events Storage Pools	√ report	t fo report	UTF-8	HTML	×	11:00	Any	Mo Tu We Th Fr Sa Su	24	23-06-07 14:46		
Libraries	✓ KH PP	sion	UTF-8	HTML	×	09:00	Any	Mo Tu We Th Fr Sa Su	24	23-06-07 14:46		
Tape Health	✓ har	Sé	UTF-8	HTML	×	10:00	Any	Mo Tu We Th Fr Sa Su	24	23-06-07 14:46		
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Remote Access	Details Servers/Gro	2 Dups Requests										
Reports	Name:	rea reports										
Alerts	Users Group:	rea										
 Statistics/Config 	Format:	HTML										
 Operation Log 	As Attachment:	×										
Groups/Users	Start Time:	10:00:00										
SMTP	Start Date:	Any										
	Day of Week:											
	Last Hours:	24										
	Exclude lock nodes:	x										
	Save copy to disk:	x										
	Path to Disk:											
	Description:											
	Exclude ANR:											

Define custom request

You can define a customized request for the report. Registration of custom report includes the following parameters:

- Name of request
- Description of request
- ADSM request

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TSMExplorer Servers Dashboard Servers IBM Libraries Information Approvals Alerts Storage Pools Libraries Storage Pools Libraries Storage Pools Libraries Storage Pools Libraries Storage Pools Libraries Storage Pools Libraries Storage Pools Libraries Storage Pools Libraries Storage Pools Storage P	Re	Update Update custom reque: Using Command-Line Name: tes Description: desc ADSM Request: q node q domain	∍st ∍ Buil	ilder 1	for p	ore-te:	sting	your r	eques	t.													\$		÷
 Virtual Machines Retention Sets Occupancy Remote Access Collector Reports Alerts Statistics/Config Operation Log Groups/Users 	۲ و																						2		
SMTP														Ca	ancel		0	<							

Define new report

Define of new report includes the following parameters:

- Name of report
- Active report
- Description
- Users group
- SP server
- Covered hours
- Start time
- Start date
- Day of week
- Domains
- Default request
- Customized request

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TSMExplorer	Define Define new report profile		* *
Servers IBM Libraries Information Approvals Alerts Failed Events	Options Servers Schedule Name: test Description:	Reports	t Update 06-07 14:46 06-07 14:46
Storage Pools Libraries Tape Health Nodes Virtual Machines Retention Sets Occupancy Remote Access Collector	Active: Group: None Format: HTML As Attachment: Encoding: UTF-8 Last Hours: 24 Exclude lock nodes:		06-07 14:46 06-07 14:46 06-07 14:46 06-07 14:46 11-07 15:15
Reports Alerts Statistics/Config Operation Log Groups/Users SMTP	Save copy to disk:	Cancel Cancel	example
	Day of Week: Last Hours: 24 Exclude lock nodes: X Save copy to disk: X Path to Disk: Description: Exclude ANR:		

Report's Logs

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TSMExplorer											\$ _
Servers Co-north 🛪	Co-south	Co-north	Co-north	¢o	o-north	Co-nort	h 🛿				
Cashboard	Reporting pro	ofiles Customized Reque	sts History								
IBM Libraries	Begin: 16 /	03 / 2024 - End: 15 / 0	04/2024 -	OK							
Information	Date	Report									
Approvals	24-04-1	5 15:02:14 exc									
Alerts 312	24-04-1	5 12:00:43 pa mw	are								
Failed Events Storage Pools	24-04-1	5 11:02:15 os	ure								
Libraries	24-04-1	5 11:01:31 rer ort									
Tape Health	Browear										
Nodes	Report: EXCI	HANGE Date: 2024-04-15	15:00:42 - M	SD							
Virtual Machines	General Info	ormation									
 Retention Sets 	Server	Name	Host				Version	Platform	Ava	ilibilty Sessions	
 Occupancy 	CO-NORTH	TSM2	10.10	.24.192			7.1.10.100	AIX	ena	bled	
Remote Access	CO-SOUTH	TSM1	10.10	.24.243			7.1.10.100	AIX	ena	bled	
E Collector	- The Clie	ent Schedules [all]									
 Reports 	Failed:	0 Missed: 0 Co	npleted: 9	In Prog	ress: 0	Summary: 9					
Alerts Atatistics/Operfin	Node	Schedule	тср	Version	Platform	Scheduled Start	Started/Completed	Flansed Time	Last Result	Next Start	History (max 10 last events)
Operation Log	CONSYST		Name/Addres	s	1 Iddioini	oonedared otart	otartea completea	Enapoed Time	Luot Hoodin	The state	notory (max to last stendy
SMTP	CI E) IGE	DEFAULT_INC_D	CNS- EXCHANGE 10.100.130.22	7.1.0.3	WinNT	2024-04-15 04:00	2024-04-15 04:06:26 2024-04-15 04:26:41	00:20:15	completed At least one warning message	2024-04-16 04:00	
	CI E〉 IGE	DEFAULT_SYSTEM_STATE	CNS- EXCHANGE 10.100.130.22	7.1.0.3	WinNT	2024-04-14 15:00	2024-04-14 15:00:43 2024-04-14 15:18:18	00:17:35	completed All operations completed successfully	2024-04-21 15:00	
	CI E: IGE	MAIL_DBF	CNS- EXCHANGE 10.100.130.22	7.1.0.3	WinNT	2024-04-10 04:00	2024-04-10 04:33:41 2024-04-10 04:59:37	00:25:56	completed All operations completed successfully	2024-04-17 04:00	

Alerts

Collector has the function of immediate alerts to users in case if any SP server parameter has exceeded the limit and established an invalid status or requires other administrator's actions. The standard alerts include:

- DB usage
- Log recovery usage
- Volume read/write errors
- SP server availability
- Number session higher than
- Number scratch tapes lower than
- Drives not online
- Paths not online

Registration of alert includes the following parameters:

- Name of alert
- Format alerts
- Active on/off
- SP server
- Users group
- Description
- Alerts
- Code server messages

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TSMExplorer	Define 🛞 🔯 🔺
Servers Co-north 🛛 🎧 Co-sout	Define new alert profile
Alert Profile Servers IBM Libraries Approvals Alerts Approvals Alerts Alerts Active Ser Co- Failed Events Storage Pools Libraries Tape Health Nodes Virtual Machines Retention Sets	General Listener of codes General Name: Field can't not be empty Description: Active: ✓ Users group: ▼ Server: ▼ Format: HTML
Occupancy Remote Access Collector Reports Alerts Statistics/Config Operation Log Groups/Users SMTP Users Grou Listener of	Alerts DB usage higher than %: 90 ? Server is available: ? Approve commands: ? Log usage higher than %: 90 ? Catch Request: ? ? Volume read/write errors more: 10 ? Drives not online: ? Num.session higher than: 50 ? Paths not online: ? Num.scratch tapes lower than: 3 ? Missed/Failed Events: ? Cancel OK
DB usage I Log usage Volume rea Num.sessi Num.scrate	igher than: 90 % ✓ Server is available: ✓ Approve commands: ✓ higher than: 90 % ✓ Drives not online: ✓ d/write errors more: 10 ✓ Paths not online: ✓ n higher than: 50 × Catch Request: ✓ th tapes lower than: 1 * Missed/Failed Events: ✓

TSMExplorer server Rest-API

TSMExplorer has REST-API for connection to Spectrum Protect Servers. Set variable for activation REST-API in app.cfg for activation function

restapi = true	<pre>// enable/disable REST-API for Spectrum Protect Servers</pre>
restport = 16020	// REST-API communication port for Spectrum Protect Servers

ADSM result (query or select)

Request

```
POST http://address:port/request
JSON body
{
    "server": "south",
    "admin": "admin",
    "password": "password",
    "request": "select domain_name from domains"
}
```

Response

```
{
 "request": "select domain_name from domains",
 "message": "",
 "code": "0",
 "server": "south",
 "result": [
  {
   "DOMAIN NAME": "AAA1"
  },
  {
   "DOMAIN_NAME": "AD"
  },
  {
   "DOMAIN_NAME": "AIX_SB"
  }
}
```

ADSM command (define/update/delete and etc.)

Request

```
POST http://address:port/command
```

```
JSON body
{
    "server": "south",
    "admin": "admin",
    "password": "adminpassword",
    "command": "define domain aaa1"
}
```

Response

```
{
    "command": "define domain aaa1",
    "message": "ANR1500I Policy domain AAA1 defined",
    "code": "ANR1500I",
    "server": "south"
}
```

email: info@tsmexplorer.com
web: https://www.tsmexplorer.com/