

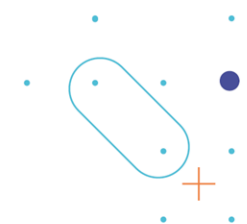
Compatibility Guide

Tina 4.9.2

Publication Date: November 13, 2024



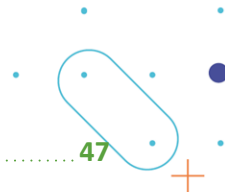
Contents



General Information	6
Important Notices	7
Automated Library Management	7
Support Lifecycle	7
Operating Systems Compatibility	8
HyperVision Agent For VMware	10
Host Backup	10
File Level Granular Restore	11
Hyper-V	12
HyperVision Agent For Hyper-V (legacy)	12
Agent For Hyper-V	12
File Level Granular Restore	12
Generic Virtualization Agent For OpenStack	13
Generic Virtualization Agent For Nutanix AHV	14
Applications	15
Tina For Microsoft 365	15
Databases	16
Tina For IBM DB2	16
Tina For Microsoft SQL Server	16
Tina For Oracle Database	16
Tina For MySQL	17

MariaDB	17
Tina For PostgreSQL	17
Tina For SAP	18
Tina for SAP ERP (ECC) on Oracle (using BACKINT)	18
Tina for SAP HANA (using BACKINT)	18
Tina for MaxDB (using BACKINT)	18
Tina For NDMP	19
NAS Products	19
Tina SnapBackup	20
Tina Direct Backup To Cloud	21
Cloud Immutability	21
Applications Compatible With Direct Backup To Cloud	22
Tina For Enhanced Disk Storage	23
Tina For ADE	25
HSS & HVDS Compatibility With Tina	25
Applications Compatible With HSS Or HVDS	25
Tina Legacy Support	27
Operating Systems Compatibility	27
Tina For IBM	32
Tina for IBM DB2	32
Tina for IBM Domino	32
Tina For Microsoft	33

Tina for Microsoft Exchange	33
Tina for SharePoint Server	33
Tina for Microsoft SQL Server	33
Tina For Oracle	34
Tina for Oracle Database	34
Tina for MySQL	35
Tina for MariaDB	36
Tina For PostgreSQL	36
Tina For SAP	36
Tina for SAP ERP (ECC) on Oracle (using BACKINT)	36
Tina for SAP HANA (using BACKINT)	37
Tina for SAP R/3 on Oracle (using BACKINT)	37
Tina for MaxDB (using BACKINT)	37
Tina For Citrix	37
Tina For VMware	38
Tina For FusionCompute	40
Tina For NDMP	40
Snapshot	41
Disk File Management (DFM)	41
Hardware	42
Automated Library Management	42
Drive Support	42
Library Support	44



Virtual Tape Library / Disk Storage Array	47
Silo Support, Library Manager	51
Content Address Storage	51
Legacy NAS Products	51



General Information

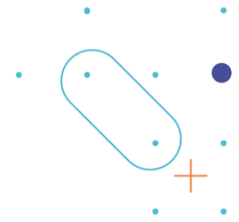
Presentation:

- New information in this document is shown in **purple**.
- End of Life components are shown in **red**. They are still supported in the current version but no longer in the next one.

Note: Tina 4.6.x Agents are fully supported with Tina Server.

Legend:

- **S**: Supported with the latest version of Tina (unless specified otherwise).
- **D**: Deprecated for future versions of Tina.
- **L**: Legacy (see last sections at the end of this guide for more details).
- **B**: Best effort.



Important Notices

Automated Library Management

See the [Hardware](#) section for drive and library support.

Support Lifecycle

End of Support (EOS) date is the last date at which Atempo delivers standard support services for the version/release of a product. EOS means the software is no longer available for download. Customers may continue to install and use the version, but Atempo no longer keeps these versions online.

Tina patches on Service Packs are maintained for three months following a new major/minor release or a service pack release. Fixes are applied to the most recent service pack and/or next version. We do not engage ourselves to provide patches to the same service pack as installed at the customer site.

End of Support implies:

- Version no longer available for download from ISP.
- No patch or service pack is provided for that version.
- Support no longer opens tickets for that version, except for legacy platforms and applications outlined in this guide.

The table below outlines essential information regarding Atempo Data Protection lifecycle policies to help you plan for future upgrades.

Tina Lifecycle

Product Name	General Availability	End of Support
Tina 4.9.2	October 2024	October 2026
Tina 4.9.1	February 2024	February 2026
Tina 4.8.1	July 2023	July 2025
Tina 4.7.1	December 2022	December 2024
Tina 2021 R1 (4.6.9)	January 2022	January 2024
Tina 2021 (4.6.8)	June 2021	June 2023

Operating Systems Compatibility

The current version of Tina is still compatible with previous agents.

See the [Tina Legacy Support](#) section for OS not listed in this table.

Family	Operating System	Architecture	WEB UI Server	License Server	Tina Server	Storage Node	Cluster	D.R. (SRA)
Linux ¹	Alma Linux 9.1	x86_64	S	S	S	S		
	Alma Linux 8.5	x86_64	S	S	S	S		
	CentOS 8.1	x86_64	S	S	S	S		
	CentOS 7.7	x86_64	S	S	S	S		
	CentOS 7.7	ARMv8_64	S	S	S	S		
	Debian 11	x86_64	S	S	S	S		
	Oracle Linux 8.5	x86_64	S	S	S	S		
	Red Hat 9.1	x86_64	S	S	S	S		
	Red Hat 8.6	x86_64	S	S	S	S		
	Red Hat 8.5	x86_64	S	S	S	S		
	Red Hat 8.3	x86_64	S	S	S	S		
	Rocky Linux 9.1	x86_64	S	S	S	S		
	Rocky Linux 8.5	x86_64	S	S	S	S		

¹Highly recommended for security and reliability reasons.

Family	Operating System	Architecture	WEB UI Server	License Server	Tina Server	Storage Node	Cluster	D.R. (SRA)
	SUSE Linux Enterprise Server 15 LTS	x86_64	S	S	S	S		
	Ubuntu 24.04 LTS	x86_64	S	S	S	S		
	Ubuntu 20.04 LTS	x86_64	S	S	S	S		
	Ubuntu 18.04 LTS	x86_64	S	S	S	S		
Windows	Windows Server 2022 ¹	x86_64	S	S	S	S	S	S
	Windows Server 2019	x86_64	S	S	S	S	S	S
	Windows Server 2016	x86_64	S	S	S	S	S	S

¹Not officially supported by VDDK 7.0.3.

HyperVision Agent For VMware

The compatibility of Tina with vSphere is dependent on the usage of VDDK. Therefore, we have to apply the same prerequisites.

Note: Antivirus must not be installed/running on Windows OS (Dokan limitation).

Host Backup

Version	Proxy ¹	Target	Express Restart Target ²
vSphere 8.0.3	Red Hat Enterprise Linux (RHEL) 8.6 Red Hat Enterprise Linux (RHEL) 8.2 CentOS 7 Ubuntu 18.04 LTS Windows Server 2022 Windows Server 2019 Windows Server 2016	VLS, VTL, HSS, Tape, HVDS, Enhanced Disk Storage, S3	HVDS, Enhanced Disk Storage
vSphere 7.0.3	Red Hat Enterprise Linux (RHEL) 8.3 CentOS 8.3 CentOS 7.7 Windows 2019 Windows 2016 Windows 2012 R2	VLS, VTL, HSS, Tape, HVDS, Enhanced Disk Storage	HVDS, Enhanced Disk Storage

¹The OS listed below are officially supported by The Virtual Disk Development Kit (VDDK) and by Tina. Some OS may be listed in the [Tina Legacy Support](#) section.

²Express Restart requires target HVDS 5.3.x.

File Level Granular Restore

Guest Family	Operating Systems	File Level Granularity
Linux VM	Ubuntu 20.04 LTS Ubuntu 18.04 LTS CentOS 8.3 CentOS 7.7 Red Hat 8.3 Red Hat 8.2	S
Windows VM	Windows Server 2019 Windows Server 2016 Windows Server 2012 R2	S

Hyper-V

HyperVision Agent For Hyper-V (legacy)

Note: Tina does not support backup of virtual machines which are hosted on SMB/CIFS shares.

Guest Family	Operating Systems	Backup Targets
Linux VM	Consult Microsoft for full details of supported versions (this is subject to change)	VLS, VTL, HSS, Tape
Windows VM	Consult Microsoft for full details of supported versions (this is subject to change)	VLS, VTL, HSS, Tape

Agent For Hyper-V

Guest Family	Operating Systems	Backup Targets
Linux VM	Consult Microsoft for full details of supported versions (this is subject to change)	HSS, Tape, HVDS
Windows VM	Consult Microsoft for full details of supported versions (this is subject to change)	HSS, Tape, HVDS

File Level Granular Restore

File Granular Restore is not supported for Linux VMs.

Guest Family	Operating Systems	File Level Granularity
Windows VM	Windows Server 2022, 2019, 2016	S

Generic Virtualization Agent For OpenStack

Version	Proxy	Target
OpenStack Victoria and above	See Operating Systems Compatibility	VLS, VTL, HSS, Tape, S3

Important: OpenStack is only supported with Swift storage.

Generic Virtualization Agent For Nutanix AHV

Version	Proxy	Target
Nutanix AHV AOS 6.50	See Operating Systems Compatibility	VLS, VTL, HSS, Tape, S3
Nutanix AHV AOS 5.15	See Operating Systems Compatibility	VLS, VTL, HSS, Tape, S3



Applications

Tina For Microsoft 365

Includes Exchange Online, OneDrive for Business, Teams, SharePoint Online, and OneNote.

Family	Operating System (Proxy)	Architecture
Linux	As outlined in Operating Systems Compatibility	x86_64
Windows	As outlined in Operating Systems Compatibility	x86_64

Databases

Tina For IBM DB2

Family	Operating System	Architecture	DB2 10.5	DB2 11
Linux	Red Hat Enterprise Linux 8.3	x86_64	S	S
	CentOS 8.1			
	CentOS 7.7			
Windows	As outlined in Operating Systems Compatibility	x86_64	S	S

Tina For Microsoft SQL Server

Family	Operating System	Architecture	SQL Server 2016	SQL Server 2017	SQL Server 2019	SQL Server 2022
Windows	Windows Server 2022	x86_64				S
	Windows Server 2019	x86_64			S	S
	Windows Server 2016	x86_64	S	S	S	

Tina For Oracle Database

Includes Partial Clone (cross-restore and recovery) - Unix only.

Note: Our backup agent supports the following configurations, only when using Oracle RMAN.

Family	Operating System	Architecture	Oracle 18c	Oracle 19c
Linux	As outlined in Operating Systems Compatibility	x86_64	S	S

Family	Operating System	Architecture	Oracle 18c	Oracle 19c
Windows	As outlined in Operating Systems Compatibility	x86_64		S

Tina For MySQL

Family	Operating System	Architecture	MySQL 6	MySQL 8.3
Linux	As outlined in Operating Systems Compatibility	x86_64	S	S
Windows	As outlined in Operating Systems Compatibility	x86_64	S	S

MariaDB

Family	Operating System	Architecture	MariaDB 10
Linux	As outlined in Operating Systems Compatibility	x86_64	S
Windows	As outlined in Operating Systems Compatibility	x86_64	S

Tina For PostgreSQL

Family	Operating System	Architecture	PgSQL 10, 11, 12, 13, 14
Linux	As outlined in Operating Systems Compatibility	x86_64	S
Windows	As outlined in Operating Systems Compatibility	x86_64	S

Tina For SAP

Tina For SAP ERP (ECC) On Oracle (using BACKINT)

Family	Operating System	Architecture	SAP ERP 6.x
Linux	Red Hat 7	x86_64	S
Windows	Windows Server 2012 R2	x86_64	S

Tina For SAP HANA (using BACKINT)

Family	Operating System	Architecture	SAP HANA 1.0	SAP HANA 2.0
Linux	As outlined in Operating Systems Compatibility	x86_64	S	4.6.8

Tina For MaxDB (using BACKINT)

Family	Operating System	Architecture	MaxDB 7.9
Linux	Red Hat 7.x	x86_64	S
	SuSE 12.x		
	SuSE 11.x		
	SuSE 10.x		
Windows	Windows Server 2012 R2	x86_64	S

Tina For NDMP

Family	Operating System	Architecture	NDMP Tape Server	NDMP Data Server	NDMP Agent
Linux	As outlined in Operating Systems ¹	x86_64	S	S	S
Windows	Windows Server 2022, 2019, 2016, 2012 R2	x86_64	S	S	S

NAS Products

Vendor	Operating System	Architecture
Dell Technologies	Compellent/Fluid FS	Compellent, EqualLogic, NX
	Unity 5.1	Unity
	OneFS 9.1	Powerscale
Hitachi Vantara	NAS OS 12.x	Hitachi NAS and High-Performance NAS
	HCA 2.x	Hitachi Content Archive Architecture
NetApp	Data ONTAP 9.13.1, 9.11.1, 9.10.1, 9.9.1, 9.8 (Node-Scoped NDMP Mode / CAB) ²	NetApp FAS
Quantum	Quantum Series or Family	All DXi models
Huawei	OceanProtect	OceanStor
	OceanStor v6.0, v5	Dorado

¹Kernel 2.6 or above glibc 2.3 or above.

²MetroCluster Not Tested. In FlexGroup topology, the amount of incremental backups is limited to 32.

Tina SnapBackup

Vendor	Snapshot Technology	Available for	Comments
Huawei	OceanStor	Tina Agent for Linux & Windows 2019	OceanStor V5 series
Microsoft	VSS	Tina Agent for Windows Server 2022, 2019, 2016, 2012	x86_64
		Tina for Microsoft Exchange 2019, 2016, 2010	MS Exchange 2019, 2016, 2010
		Tina for Oracle 19c, 18c, 12.x, 11.x	Not available with RMAN mode
NetApp	Snapshot	Tina Agent for NDMP	NetApp Filer only
		Tina for Oracle 11.x	NetApp Filer only

Tina Direct Backup To Cloud

The following object storages are supported with or without object lock.

Cloud Immutability

Object storage vendor	Type	Object lock
Amazon Web Services	S : S3	S
DataCore Swarm	S : S3	S
Microsoft Azure	S : Blob	S
NetApp StorageGrid	S : S3	
Orange Cloud Avenue	S : S3	S
OVHcloud	S : S3	S
Quantum ActiveScale	S : S3	S ¹
Scaleway	S : S3	S
Scality (RING & Artesca)	S : S3	S
Ugloo	S : S3	S
Wasabi	S : S3	S

¹Only compliance mode is supported.

Applications Compatible With Direct Backup To Cloud

Application	S3 target
FileSystem	S
M365	S
MS SQL Server	S
MySQL	S
Nutanix	S
OpenStack	S
Oracle Database	S
PostgreSQL	S
VMware	S
Catalog	
Exchange	
Hyper-V	
IBM DB2	
List	
SharePoint Server	
SRA	

Tina For Enhanced Disk Storage

Important: It is compatible only with supported Linux Operating Systems and NFS v3 protocol.

Applications compatible with Enhanced Disk Storage

Application	Enhanced Disk Storage
Catalog	S
FileSystem	S
M365	S
MS SQL Server	S
VMware	S
Exchange	
Hyper-V	
IBM DB2	
List	
MySQL	
Nutanix	
OpenStack	
Oracle Database	
PostgreSQL	

Applications compatible with Enhanced Disk Storage

Application	Enhanced Disk Storage
SharePoint Server	
SRA	

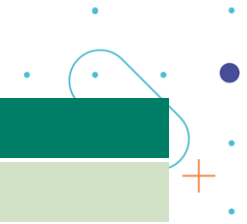
Tina For ADE

HSS & HVDS Compatibility With Tina

Tina Versions	Atempo Deduplication Engine (ADE) Version
Tina 4.9.2	ADE 7.0
Tina 4.9.1	ADE 7.0
Tina 4.8	ADE 5.3.7
Tina 4.7.1	ADE 5.3.4, 5.3.3
Tina 2021 R1 (4.6.9)	ADE 5.2
Tina 2021 (4.6.8)	ADE 5.1

Applications Compatible With HSS Or HVDS

Application	HVDS	HSS
Catalog		S
Exchange		S
FileSystem		S
Hyper-V	S	S
IBM DB2		S
List		S
M365		S

Application	HVDS	HSS
MS SQL Server		S
MySQL		S
Nutanix		S
OpenStack		S
Oracle Database		S
PostgreSQL		S
SharePoint Server		S
SRA		S
VMware	S	S

Tina Legacy Support

The following legacy tables indicate the last Tina version supported by the operating system, application or database.

Agents prior to version Tina 4.2 SP4 are no longer supported.

Operating Systems Compatibility

	Operating System	Architecture	WEB UI	License	Server	Storage Node	Agent	Cluster	Disaster Recovery
AIX	AIX 7.2 ¹	PPC64	4.6.4	4.6.4	4.6.4	4.6.4	4.6.4	4.6.4	
	AIX 7.1								
	AIX 6.1	PPC64	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	
HP-UX	HP-UX 11i v3 ²	ia64	4.6.4	4.6.4	4.6.4	4.6.4	4.6.4	4.6.4	
	HP-UX 11i v2		4.6.0	4.6.0	4.6.0				
Solaris	Solaris 11	SPARC64			4.6.4	4.6.4	4.6.4		
	Solaris 10				4.6.2	4.6.2	4.6.2		
	Solaris 11	x86_64			4.6.4	4.6.4	4.6.4		
	Solaris 10				4.6.2	4.6.2	4.6.2		
Linux	Red Hat 8.2	x86_64	4.6.9	4.6.9	4.6.9	4.6.9	4.6.9	4.6.9	
	Red Hat 8.1								
	Red Hat 8.0								

¹Minimum operating system level is 5100-09 (run oslevel -r to get version). AIX 7.1 & 7.2 require OS level TL3 SP1 minimum.

²HP-UX Security patch (HP-UX B.11.31 64 bits Itanium) not currently supported.

Operating System	Architecture	WEB UI	License	Server	Storage Node	Agent	Cluster	Disaster Recovery
Red Hat 7.7	x86_64	4.6.9	4.6.9	4.6.9	4.6.9	4.6.9	4.6.9	
Red Hat 7.6								
Red Hat 7.5								
Red Hat 7.4								
Red Hat 7.3								
Red Hat 7.2	x86_64	4.6.5	4.6.5	4.6.5			4.6.5	
Red Hat 7.1								
Red Hat 7	ia64	4.5.2	4.5.2	4.5.2			4.5.2	
Red Hat 6.10	x86_64	4.6.5	4.6.5	4.6.5	4.6.5	4.6.5		
Red Hat 6.9								
SUSE Linux Enterprise Server 15	x86_64					4.6.9		
SUSE Linux Enterprise Server 12	x86_64	4.6.9	4.6.9	4.6.9	4.6.9	4.6.9	4.6.9	
SUSE Linux Enterprise Server 11	x86_64	4.6.5	4.6.5	4.6.5	4.6.5	4.6.5	4.6.5	
SUSE Linux Enterprise Server 10	x86_64	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	
openSUSE 15	x86_64	4.6.9		4.6.9	4.6.9	4.6.9		
openSUSE 13	x86_64	4.6.5		4.6.5	4.6.5	4.6.5		
openSUSE 12	x86_64	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	
openSUSE 11								

Operating System	Architecture	WEB UI	License	Server	Storage Node	Agent	Cluster	Disaster Recovery
CentOS 8.0	x86_64	4.6.9	4.6.9	4.6.9	4.6.9	4.6.9		
CentOS 7.6								
CentOS 7.5								
CentOS 7.4								
CentOS 7.3								
CentOS 6	x86_64	4.6.5		4.6.5	4.6.5	4.6.5		
CentOS 5	x86_64	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	
Debian 11	x86_64	4.6.9		4.6.9	4.6.9	4.6.9		
Debian 10								
Debian 9								
Debian 8								
Debian 7	x86_64	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	
Debian 6								
Debian 5								
Ubuntu 18	x86_64	4.6.9		4.6.9	4.6.9	4.6.9		
Ubuntu 16								

	Operating System	Architecture	WEB UI	License	Server	Storage Node	Agent	Cluster	Disaster Recovery
	Ubuntu 14								
	Ubuntu 13								
	Ubuntu 12								
	Ubuntu 11	x86_64	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	4.6.0	
	Ubuntu 10								
	Ubuntu 9								
	Ubuntu 8								
	Oracle Linux 7	x86_64	4.6.0		4.6.0	4.6.0	4.6.0		
	Oracle Linux 6								
	SGI ISSP 3.6, 3.5 on SLES 11 SP3, SP4	x86_64			4.5.0	4.5.0	4.5.0		
	SGI ISSP 3.6, 3.5, 3.4 on Red Hat Linux	x86_64	4.6.0		4.6.0	4.6.0	4.6.0		
	SGI ISSP 3.3 SLES 11 SP3	x86_64			4.5.0	4.5.0	4.5.0		
	SGI ISSP 3.1 on Red Hat Linux	x86_64			4.5.0	4.5.0	4.5.0		
	SGI ISSP 3.0 on SLES 11	x86_64			4.5.0	4.5.0	4.5.0		
OS X	OS X 10.11	x86_64		4.6.0	4.6.0	4.6.0	4.6.0		4.6.5
	OS X 10.10								
	OS X 10.9	x86_64		4.5.0	4.5.0	4.5.0	4.5.0		

	Operating System	Architecture	WEB UI	License	Server	Storage Node	Agent	Cluster	Disaster Recovery
macOS	High Sierra 10.13	x86_64	4.6.4	4.6.4	4.6.4	4.6.4	4.6.4	4.6.4	
	OS X Sierra 10.12								
FreeBSD	FreeBSD 11	x86_64					4.6.4		
	FreeBSD 10.1								
	FreeBSD 9.x	x86_64					4.6.0		
Novell	SLES 10 OES 2	x86_64			4.6.0	4.6.0	4.6.0	4.6.0	
Windows	Windows 2016 Core	x86_64	4.6.7	4.6.7	4.6.7	4.6.7	4.6.7	4.6.7	4.6.7
	Windows Server 2012 R2								
	Windows Server 2012								
	Windows 2012 Core	x86_64			4.6.4	4.6.4	4.6.4	4.6.4	4.6.4
	Windows Storage Server 2012 R2								
	Windows Storage Server 2012								
	Windows Small Business Server 2011	x86_64					4.6.4		
	Windows Server 2008 R2	x86_64	4.6.4	4.6.4	4.6.4	4.6.4	4.6.4	4.6.4	4.6.4
	Windows Server 2008								
	Windows 10	x86_64				4.6.7		4.6.7	4.6.7
	Windows 8	x86_64				4.6.7		4.6.7	4.6.7
	Windows 7	x86_64					4.6.5		4.6.5

Tina For IBM

Tina For IBM DB2

Family	Operating System	Architecture	8	9	10	11
AIX	AIX 7.2	PPC			4.6.4	4.6.4
	AIX 7.1	PPC			4.6.4	
	AIX 6.1	PPC			4.6.0	
Linux	As outlined in Operating Systems Compatibility	x86_64		4.6.2	4.6.8	4.6.8
Solaris	Solaris 11	SPARC		4.6.2	4.6.2	
	Solaris 10					
	Solaris 10	x86_64		4.6.2		

Tina For IBM Domino

Family	Operating System	Architecture	8.5	9
Linux	Red Hat 7	x86_64		4.6.8
Windows	Windows Server 2012 R2	x86_64		4.6.8
	Windows Server 2012	x86_64	4.6.8	4.6.8

Tina For Microsoft

Tina For Microsoft Exchange

Family	Operating System	Architecture	Exchange 2010	Exchange 2013	Exchange 2016	Exchange 2019
Windows	Windows Server 2019	x86_64			4.6.9	4.6.9
	Windows Server 2016			4.6.5	4.6.8	
	Windows Server 2012 R2	x86_64		4.6.5		
	Windows Server 2008 R2	x86_64	4.6.0	4.6.5		

Tina For SharePoint Server

Family	Operating System	Architecture	SharePoint 2010	SharePoint 2013	SharePoint 2016	SharePoint 2019
Windows	Windows Server 2019	x86_64				4.6.8
	Windows Server 2016	x86_64			4.6.8	
	Windows Server 2012 R2	x86_64		4.6.8		
	Windows Server 2008	x86_64	4.5.0			

Tina For Microsoft SQL Server

Family	Operating System	Architecture	SQL Server 2014
Windows	Windows Server 2012 R2	x86_64	4.6.8

Tina For Oracle

Tina For Oracle Database

Family	Operating System	Architecture	10	11	12	18c	19c
AIX	AIX 7.2, 7.1	PPC	4.6.2	4.6.4			
HP-UX	HP-UX 11i v3	ia64	4.6.2	4.4.2			
Linux	Linux, kernel 2.6 or 2.4 glibc 2.3	PPC	4.6.2	4.6.4	4.6.5		
	Linux, kernel 2.6 or 2.4 glibc 2.3	ia64	4.6.2	4.6.4	4.6.5		
Solaris	Solaris 11	x86_64	4.6.4	4.6.4		4.6.8	4.6.8
	Solaris 10	SPARC64	4.6.4	4.6.4		4.6.8	4.6.8
	Solaris 9	SPARC64	4.6.2				
	Linux, kernel 2.6 or 2.4 glibc 2.3	x86_64	4.6.2				
	Linux, kernel 2.6 or 2.4 glibc 2.3	ia64	4.6.2				
Windows	Windows 2008	SPARC	4.6.2	4.6.4	4.6.5		

Tina For MySQL

Family	Operating System	Architecture	Versions			
			5.0, 5.1	5.5	5.6	5.7
Linux	Red Hat 7	x86_64				4.6.8
	Red Hat 6 Red Hat 5	SPARC	4.6.0			
	Red Hat 6 Red Hat 5	x86_64	4.6.0			
	SuSE 11 SuSE 10 SuSE 9	x86_64	4.6.0			
	SuSE 11 SuSE 10 SuSE 9	SPARC	4.6.0			
	CentOS 7	x86_64				4.6.8
Solaris	Solaris 11 Solaris 10	SPARC		4.6.3		
Windows	Windows Server 2008	x86_64	4.5.2	4.5.2	4.5.2	

Tina For MariaDB

Family	Operating System	Architecture	Versions
			10.3
Linux	Red Hat 7	x86_64	4.6.8
	Red Hat 6		
	Red Hat 5		
	SuSE 11 SP4	x86_64	4.6.8
Windows	Windows Server 2016	x86_64	4.6.8

Tina For PostgreSQL

Family	Operating System	Architecture	9.1	9.2	9.3	9.4.1
Windows	Windows Server 2016	x86_64	4.6.0			

Tina For SAP

Tina For SAP ERP (ECC) On Oracle (using BACKINT)

Family	Operating System	Architecture	SAP ERP 6.x
AIX	AIX 7.1	PPC	4.6.5
HP-UX	HP-UX 11i v3	ia64	4.6.5
Solaris	Solaris 11.x, 10.x	x86_64	4.6.2
	Solaris 11.x, 10.x	SPARC	4.6.5

Tina For SAP HANA (using BACKINT)

Family	Operating System	Architecture	SAP HANA 1.0
Linux	SuSE 12.x, SuSE 11.x	x86_64	4.6.8

Tina For SAP R/3 On Oracle (using BACKINT)

Family	Operating System	Architecture	SAP ERP 3.x, 4.x, 5.x	SAP ERP 6.x
AIX	AIX 7.1, 6.1	PPC		4.6.0
HP-UX	HP-UX 11i v2, v3	ia64		4.6.0
Linux	Red Hat 6	x86_64		4.6.2
	Red Hat AS 4.0	ia64		4.6.0
Solaris	Solaris 11, 10	SPARC		4.6.2

Tina For MaxDB (using BACKINT)

Family	Operating System	Architecture	MaxDB 7.6, 7.7, 7.8	MaxDB 7.9
Linux	Red Hat, SuSE 11, 10, 9	x86_64	4.6.0	4.6.5
Solaris	Solaris 11, 10	SPARC		
Windows	Windows Server 2012 R2, 2008 R2	x86_64		

Tina For Citrix

Family	Operating System	Architecture	Agent
XenServer 7	Windows Server 2012	x86_64	4.6.8

Family	Operating System	Architecture	Agent
XenServer 6.5	Windows 2012, 2008 R2	x86_32	4.6.0
XenServer 6.2			
XenServer 6.0			

Tina For VMware

VMware	Proxy	Target	Tina Version
HVA for VMware Support for vSphere 6.7.2	CentOS 7.4 Red Hat 7.3 Red Hat 7.2 Windows 2016 Windows 2012 R2	VLS, VTL, HSS, Tape, HVDS	4.6.9
HVA for VMware Support for vSphere 6.7.1	Red Hat 7.3 Red Hat 7.2 Windows 2016 Windows 2012 R2	VLS, VTL, HSS, Tape, HVDS	4.6.9
HVA for VMware Support for vSphere 6.5.2	Red Hat 7.3 Red Hat 7.2 Windows 2016 Windows 2012 R2 Windows 10	VLS, VTL, HSS, Tape, HVDS	4.6.8

VMware	Proxy	Target	Tina Version
HVA for VMware Support for vSphere 6.5.1	Red Hat 7.3 Red Hat 7.2 Red Hat 6.8 Red Hat 6.7 Windows 2016 Windows 2012 R2 Windows 10 SuSE 12 SP1 SuSE 11 SP4	VLS, VTL, HSS, Tape, HVDS	4.6.8
HVA for VMware Support for vSphere 6.5.0	Red Hat 7.2 Red Hat 6.8 Red Hat 6.7 SuSE 12 SP1 SuSE 11 SP4	VLS, VTL, HSS, Tape, HVDS	4.6.8
HVA for VMware Support for vSphere 6.0.x	Red Hat 7.0, 6.6 SuSE 12, 11.3 Windows Server 2012 R2 Windows Server 2008 R2	VLS, VTL, HSS, Tape, XDF ¹ , HVDS	4.6.5

¹External Filesystem.

VMware	Proxy	Target	Tina Version
HVA for VMware Support for vSphere 5.5	CentOS 6.4 Red Hat 6.x SuSE 11.2, 11.1, 10.4 Windows Server 2012 Windows Server 2008 R2	VLS, VTL, HSS, Tape, HVDS	4.6.1

Tina For FusionCompute

HyperVision Agent for FusionCompute	Proxy	Tina Version
Tina Agent for FusionCompute ¹ V100R005C10SPC700 Foundation Edition	SuSE 11 SP3 x64 / 64 bit	4.6.0

Tina For NDMP

Family	Operating System	Architecture	NDMP Tape Server	NDMP Data Server	NDMP Agent
AIX	AIX 7.2, 7.1, 6.1	PPC	4.6.0	4.6.0	4.6.0
HP-UX	HP-UX 11i v3, v2	ia64	4.6.0	4.6.0	4.6.0
iSeries	OS/400 7.3, 7.2		4.6.0	4.6.0	4.6.0
Linux	SGI ISSP 3.6, 3.5	x86_64	4.6.0	4.6.0	4.6.0

¹Huawei VDDK does not support SAN backup or restore on third-party storage.

Family	Operating System	Architecture	NDMP Tape Server	NDMP Data Server	NDMP Agent
	SGI ISSP 3.4, 3.3	x86_64	4.5.0	4.5.0	4.5.0
macOS	High Sierra (10.13), Sierra (10.12)	x86_64	4.6.0	4.6.0	4.6.0
	El Capitan (10.11), Yosemite (10.10)	x86_64	4.6.0	4.6.0	4.6.0
Solaris	Solaris 11, 10	SPARC	4.6.2	4.6.2	4.6.2
	Solaris 11, 10	x86_64	4.6.2	4.6.2	4.6.2

Snapshot

Vendor	Technology	Available for	Comments
NetApp E-Series	Engenio	Linux	x86 only

Disk File Management (DFM)

Family	Operating System	Architecture
macOS	Yosemite (10.10), Mavericks (10.9)	x86_64

Hardware

Automated Library Management

This guide shows library and drive support with Tina 4.9.2 (unless specified otherwise).

Important: The information below is valid for drives only. The compatibility between the libraries and the operating system is displayed in the [Library Support](#) table. You need to check both the [Drive Support](#) and the [Library Support](#) tables. To ensure support of the backup hardware, the library itself and each kind of drive it uses must be supported by the operating system(s) of the server(s) it will be connected to.

Disclaimer: The information about drive support hereafter is strictly related to the hardware manufacturers. No support can be assumed for any OEM version that might exist.

Drive Support

Technology				HP UX	IBM AIX	Oracle Solaris	Linux	Windows
Disk Drive	Model	Connection	Worm					
StorageTek	T10000-D	FC		B	B	S	S	S
	T10000-C	FC		B	B	B	B	S
IBM	TS1160	RoCE					B	B
	IBM TS1160, TS1155, TS1150	FC	S	B	B	B	S	S
	IBM 3592 J1A	FC	S	S	S	S	S	S
	IBM 3590 B1A and E1A	SCSI			S			

Technology				HP UX	IBM AIX	Oracle Solaris	Linux	Windows
Disk Drive	Model	Connection	Worm					
LTO HPE	HP LTO-9	SAS	S	S	S	S	S	S
		FC	S	S	S	S	S	S
	HPE LTO-8	SAS	S	S	S	S	S	S
		FC	S	S	S	S	S	S
	HPE LTO-7	SAS	S	S	S	S	S	S
		FC	S	S	S	S	S	S
	HPE LTO-6	SAS	S	B	B	B	S	S
		FC	S	S	S	S	S	S
LTO IBM	IBM LTO-9	SAS	S	B	B	B	S	S
		FC	S	B	B	B	S	S
	IBM LTO-8	SAS	S	B	B	B	S	S
		FC	S	B	B	B	S	S
	IBM LTO-7	SAS	S	B	B	B	S	S
		FC	S	B	B	B	S	S
	IBM LTO-6	SAS	S	B	B	B	S	S
		FC	S	B	B	B	S	S

Technology				HP UX	IBM AIX	Oracle Solaris	Linux	Windows
Disk Drive	Model	Connection	Worm					
LTO Quantum	Quantum LTO-9	SAS	S	B	B	B	S	S
		FC	S	B	B	B	S	S
	Quantum LTO-8	SAS	S	B	B	B	S	S
		FC	S	B	B	B	S	S
	Quantum LTO-7	SAS	S	B	B	B	S	S
		FC	S	B	B	B	S	S
	Quantum LTO-6	FC	S	B	B	B	S	S
		SAS	S	B	B	B	B	B
LTO Tandberg	Tandberg LTO-9, 8, 7, 6	SAS	S	B	B	B	S	S
		FC	S	S	S	S	S	S

Library Support

Important: The information below is valid for drives only. The compatibility between the libraries and the operating system is displayed in the [Library Support](#) table. You need to check both the [Drive Support](#) and the [Library Support](#) tables. To ensure support of the backup hardware, the library itself and each kind of drive it uses must be supported by the operating system(s) of the server(s) it will be connected to.

Disclaimer: The information about library support hereafter is strictly related to the hardware manufacturers. No support can be assumed for any OEM version that might exist.

Manufacturer	Model	HP UX	IBM AIX ¹²³⁴	Oracle Solaris	Linux	Windows
Dell	TL4000, TL2000, TL1000	S	S	S	S	S
	ML6000 Series, ML3	S	S	S	S	S
	160T, 136T, 132T, 130T	S	S	S	S	S
	128T, 124T, 122T, 120T	S	S	S	S	S
Fujitsu	ETERNUS LT 60/40/20 S2 Series	S	S	S	S	S
	LT260, 160, 60	S	S	S	S	S
HPE	EML/ESL E-Series	S	S	S	S	S
	ESL G3 Series	S	S	S	S	S
	MSL 8096/8048/4048/3040/ 2024, 6000, 5000, MSL 6480	S	S	S	S	S
IBM	TS4500, TS4300, TS3500, TS3310, TS3200, TS3100, TS2900	S	S	S	S	S
	4560, 3623LX, 3600 R20, 3584, 3583, 3582, 3581	S	S	S	S	S

¹SAS connection is not supported on IBM AIX.

²AIX platform supports up to 8 library devices.

³Library Partition SpectraLogic feature is not supported with 20k and 64K libraries.

⁴Supports ADI bridging.

Manufacturer	Model	HP UX	IBM AIX ¹²³⁴	Oracle Solaris	Linux	Windows
NEC	T40A / T40A2 T16A / T16A2	S	S	S	S	S
	LL009F	S	S	S	S	S
Overland Tandberg	NEOs 400s, 200s NEOs 8000, 4000, 2000 NEOs 8000e, 4000e, 2000e NEOs T48, T24 NEOs StorageLoader NEOxl 80, 60, 40	S	S	S	S	S
Qualstar	RLS 85120, 8560, 8500, 8350 TLS XLS 8161100 - 832700 Q80, Q40, Q24	S	S	S	S	S
Quantum	Scalar i6000, i2000, i500, i80 / i40, i6, i3, Scalar 50, 10K	S	S	S	S	S
Sony	Petasite	S	S	S	S	S

¹SAS connection is not supported on IBM AIX.

²AIX platform supports up to 8 library devices.

³Library Partition SpectraLogic feature is not supported with 20k and 64K libraries.

⁴Supports ADI bridging.

Manufacturer	Model	HP UX	IBM AIX ¹²³⁴	Oracle Solaris	Linux	Windows
SpectraLogic	Spectra T50e/ T50 / T24	S	S	S	S	S
	Spectra T-Finity, T950, T680, T380, T200, T120	S	S	S	S	S
	Stack	S	S	S	S	S
Oracle StorageTek	9310 ACSLS required					
	9738, 9730	S	S	S	S	S
	L5500 ACSLS required					
	SL4000, SL3000, SL500, SL150, SL50	S	S	S	S	S
	SL8500 ACSLS required					

Virtual Tape Library / Disk Storage Array

Manufacturer	Model	HP UX	IBM AIX	SUN Solaris	Linux	Windows	macOS
Amazon	AWS Storage Gateway						

¹SAS connection is not supported on IBM AIX.

²AIX platform supports up to 8 library devices.

³Library Partition SpectraLogic feature is not supported with 20k and 64K libraries.

⁴Supports ADI bridging.

Manufacturer	Model	HP UX	IBM AIX	SUN Solaris	Linux	Windows	macOS
Dell Technologies	DD9900 / 9800 / 9400 / 9300 DD6900 / 6800 / 6400 / 6300 DD3300	S	S	S	L	S	S
	DL6000, DL4000 Series	S	S	L	L	S	
	DL3000 / DL1500	S	S	L	L	S	S
	DL700 & 300 Series	S		L		S	
	DL210		S	L	L	S	S
	DR4000				L	S	
ExaGrid	EXxx	B	B	B	B	B	B
ExaStore	Exanet				L	S	
FalconStor	VTL	S	S	S	L	S	S
Fujitsu	ETERNUS CS High End (formerly CentricStor)	S	S	S	S	S	
	ETERNUS CS800	S	S	S	L	L	L
Hitachi Data Systems	HDS ProtecTIER, HDS ProtecTIER VTL 500M / 1000E / 1000L					S	
	HDS VTF Open					L	

Manufacturer	Model	HP UX	IBM AIX	SUN Solaris	Linux	Windows	macOS
HPE	HP D2D	S	S	S	S	S	S
	StoreOnce 5650, StoreOnce 5250/5200, StoreOnce 3640, StoreOnce 3620 StoreOnce VSA (Gen 4)					S	
	HP VLS 9000 / 6000	S	S	S	S	S	S
IBM	TS7650 ProtecTIER	S	S	S	S	S	
NetApp	Cloud Backup (formerly AltaVault)						
NEC	HYDRAsTOR				S	S	
Network Appliance	NearStore VTL VTL1400, 700, 300	S	S	S	L	S	S
Nexsan	SataBeast				S	S	
Overland Tandberg ¹	RDX QuikStation				S	S	
Oracle StorageTek	VTL Plus	S	S	S	S	S	S
	VTL Prime	S	S	L	L	S	L
Quadstor ²	VTL				L	S	

¹Requires Full Barcode reinitialization after library reboot.

²SIDF format is supported with VTL deduplication.

Manufacturer	Model	HP UX	IBM AIX	SUN Solaris	Linux	Windows	macOS
Quantum	DXi9000						
	DXi8500 2TB						
	DXi6900						
	DXi6802						
	DXi6702/6701/6700	S	S	S	L	L	
	DXi7500/6500/5500						
	DXi4800						
	DXi4700						
	DXi3500/2500/						
	DX5000, DX3000	S	S	S	L	S	S
	DX100 / DX30	S	S	S	L	S	
Sepaton	S2100	S	S	S	L	S	S
SGI/Copan	Revolution 220	S	S	S	L	S	S
	400M, 300M Native MAID	S	S	S	L	S	S
	400T, 300T TX VTL	S	S	S	L	S	S
Spectra Logic	v320, v160, v80, vX (nTier 700, 500)	S	S	S	S	S	S

Silo Support, Library Manager

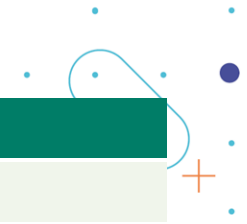
Manufacturer	Model	HP UX	IBM AIX	SUN Solaris	Linux	Windows
Oracle StorageTek	ACSL 8.5, 8.4, 8.3		S		L	S
	ACSL 8.2			S	L	S
	ACSL 8.1, 7.3					
	ACSL 8.0, 7.2, 7.1	S	S	S	L	S
	Library Station (LS)	S	S	S	L	
	Lib-Attach 1.4.3, 1.4.2					

Content Address Storage

Manufacturer	Model	HP UX	IBM AIX	SUN Solaris	Linux	Windows
Dell Technologies	ECS	S	S	S	L	S

Legacy NAS Products

Vendor	Operating System	Architecture
BlueArc	BlueArc OS 8.2, 8.1, 7.0, 6.x, 5.x	BlueArc Titan, BlueArc Mercury
DELL EMC	Unity 4.4+	Unity
EMC	DART 5.6, 5.5, 5.4	Celerra
Hitachi Data Systems	NAS OS 11.x, 10.x, 8.x, 7.0, 6.x, 5.x	Hitachi NAS and High-Performance NAS

Vendor	Operating System	Architecture
	HCA 2.x	Hitachi Content Archive Architecture
Isilon (PowerScale)	OneFS 8.x, 7.2, 7.0	IQ, Accelerator
NetApp	Data ONTAP 9.0 > 9.10.1 (Node-Scoped NDMP Mode / CAB)	NetApp Filer
Nexenta	NexentaStor	
Onstor	EverON 3.3.2.7	Bobcat
Overland	GuardianOS 7.2.0.29	SnapServer DX-series
Panasas	PanFS 4.1	ActiveStor 14
Pillar Data Systems	2.7	Axiom 500
SGI	SGI InfiniteStorage Appliance Manager 4	Nexis
Sun	4.22	StorageTek 5320
	Solaris 5.11	Sun Storage 7000 Series, Sun StorEdge