

Compatibility Guide

Tina 4.9

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General Information

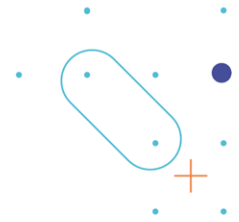
Presentation:

- 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 4.8.1	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
Tina 2020 (4.6.7)	October 2020	April 2022
ATN 4.6.6	May 2020	May 2022

Tina Lifecycle

Product Name	General Availability	End of Support
ATN 4.6.5	December 2019	December 2021
ATN 4.6.4	July 2019	July 2021
ATN 4.6.3	April 2019	April 2021
ATN 4.6.2	September 2018	September 2020
ATN 4.6.1	May 2018	May 2020
ATN 4.6.0	October 2017	October 2019

Operating Systems Compatibility

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

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	§	§	§	§		
	Alma Linux 8.5	x86_64	§	§	§	§		
	CentOS 8.1	x86_64	§	§	§	§		
	CentOS 7.7	x86_64	§	§	§	§		
	CentOS 7.7	ARMv8_64	§	§	§	§		
	Debian 11	x86_64	§	§	§	§		
	Oracle Linux 8.5	x86_64	§	§	§	§		
	Red Hat 9.1	x86_64	§	§	§	§		
	Red Hat 8.6	x86_64	§	§	§	§		
	Red Hat 8.5	x86_64	§	§	§	§		
	Red Hat 8.3	x86_64	§	§	§	§		
	Rocky Linux 9.1	x86_64	§	§	§	§		
	Rocky Linux 8.5	x86_64	§	§	§	§		

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 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	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.

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

HyperVision Agent For Hyper-V

Note: ATN 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, HVDS
Windows VM	Consult Microsoft for full details of supported versions (this is subject to change)	VLS, VTL, HSS, Tape, HVDS

File Level Granular Restore¹

Guest Family	Operating Systems	File Level Granularity
Windows VM	Windows Server 2022, 2019, 2016, 2012 R2	S

¹Fine Granular Restore is not supported for Linux VMs.

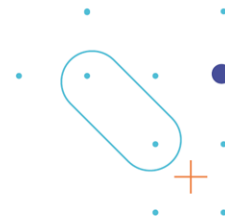
Generic Virtualization Agent For OpenStack

Version	Proxy	Target
OpenStack 5.2	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

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.

Family	Operating System	Architecture	Oracle 18c	Oracle 19c
Linux	CentOS 8.1	x86_64	S	S
	CentOS 7.7			

Family	Operating System	Architecture	Oracle 18c	Oracle 19c
Windows	Windows Server 2019 Windows Server 2016	x86_64		S
Exadata (with RMAN)	Oracle Enterprise Linux 7		S	S

Tina For MySQL

Family	Operating System	Architecture	MySQL 6
Linux	CentOS 7.7	x86_64	S
Windows	Windows Server 2019 Windows Server 2016	x86_64	S

Tina For PostgreSQL

Family	Operating System	Architecture	PgSQL 10	PgSQL 11	PgSQL 12
Linux	CentOS 7.7	x86_64	S	S	S
Windows	Windows Server 2019 Windows Server 2016	x86_64	S	S	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

Family	Operating System	Architecture	SAP ERP 6.x
Windows	Windows Server 2012 R2	x86_64	S

Tina For SAP HANA (using BACKINT)

Family	Operating System	Architecture	SAP HANA 1.0
Linux	Red Hat 7.x Red Hat 6.x	x86_64	S

Tina For MaxDB (using BACKINT)

Family	Operating System	Architecture	MaxDB 7.9
Linux	Red Hat 7.x SuSE 12.x SuSE 11.x SuSE 10.x	x86_64	S
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 (S3 & Microsoft Azure)

Supported object storage destination that allows you to address these S3 servers (on-premises and public clouds):

Object storage vendor	S3	Object lock
Amazon Web Services		
DataCore Swarm		
Scaleway		
NetApp StorageGrid		
Orange Cloud Avenue		
OVHcloud		
Quantum ActiveScale		 ¹
Scality (RING & Artesca)		
Wasabi		

Note: Following S3 storage have been tested. Data is stored in plain format on S3 storage.

Applications compatible with Direct Backup to Cloud

Application	S3 target	Microsoft Azure Blob target
FileSystem		
M365		

¹Only compliance mode is supported.

Applications compatible with Direct Backup to Cloud

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

Tina For Enhanced Disk Storage

Important: It's 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	

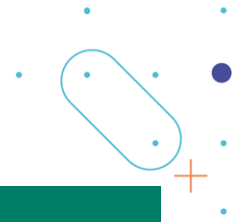
Tina For ADE

HSS & HVDS Compatibility with Tina

Tina Versions	Atempo Deduplication Engine (ADE) Version
Tina 4.9	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		\$
Exchange		\$
FileSystem		\$
Hyper-V	\$	\$
IBM DB2		\$
List		\$
M365		\$
MS SQL Server		\$
MySQL		\$



Applications compatible with HSS or HVDS

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

Hardware

Automated Library Management

Drive Support

This guide shows library and drive support with Tina 4.9 (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


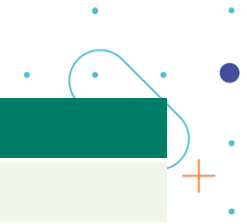
Manufacturer	Model	HP UX	IBM AIX	SUN Solaris	Linux	Windows
Oracle StorageTek	ACSL 8.5, 8.4, 8.3		S		L	S
	ACSL 8.2			S	L	S
	ACSL 8.1, 7.3					
	ACSL 8.0, 7.2, 7.1	S	S	S	L	S
	Library Station (LS)	S	S	S	L	
	Lib-Attach 1.4.3, 1.4.2					

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