Synology DiskStation

MIB Guide



Table of Contents

Introduction	01
Supported MIB files	03
Synology MIB files	05
Synology System MIB	
Synology Disk MIB	
Synology RAID MIB	
Synology UPS MIB	
Synology Smart MIB	
Synology Services MIB	
Synology StorageIO MIB	
Synology SpaceIO MIB	
Synology FlashCache MIB	
Synology iSCSI LUN MIB	
Synology Ebox MIB	
Synology SHA MIB	
Synology NFS MIB	
Synology GPUInfo MIB	
Synology Port MIB	
Synology iSCSI Target MIB	
Useful OIDs	20
Monitor Specific OIDs	23
Import MIB Files	
Set up the NMS	
Document Revision History	27
Copyright and Disclaimer Notices	28

THIS DOCUMENT CONTAINS PROPRIETARY TECHNICAL INFORMATION WHICH IS THE PROPERTY OF SYNOLOGY INCORPORATED AND SHALL NOT BE REPRODUCED, COPIED, OR USED AS THE BASIS FOR DESIGN, MANUFACTURING, OR SALE OF APPARATUS WITHOUT WRITTEN PERMISSION OF SYNOLOGY INCORPORATED

Introduction

Synology DiskStation Manager (DSM) allows users to monitor the status of their Synology servers through Network Management Systems (NMS) via Simple Network Management Protocol (SNMP). However, Synology DSM does not provide SNMP trap capability.

This document introduces Management Information Base (MIB) files of Synology servers. It focuses on which MIB files are supported by DSM, while also describes how Object Identifiers (OIDs) in Synology MIBs are used with your preferred NMS software. Users are encouraged to have experience and knowledge of NMS and SNMP before consulting this document.

Supported MIB files

DSM and SRM supports numerous MIB files that can help users monitor different information on their Synology NAS/IP SAN (hereinafter referred to as Synology servers). Table 2-1 shows the MIBs supported by DSM and SRM.

These MIB files can be separated into two types: general SNMP MIB and Synology MIB. General SNMP MIB files are equipped on NMS clients natively.

Synology MIB files can provide specific data about a Synology server system, disks, RAID, and connected UPS devices. Please see the "Synology MIB Files" section below for more Synology MIB information.

You can download the Synology MIB file here.

Note: For all tables in this document, unless otherwise noted, DSM denotes that this OID is compatible with DSM 6.2.4 and above, and DSM UC denotes that this OID is compatible with DSM UC 3.0.

Table 2-1 General MIB Files Supported by DSM

MIB	Explanation
DISMAN-EVENT-MIB	For defining event triggers and actions for network
	management purposes
DISMAN-SCHEDULE-MIB	For scheduling SNMP set operations periodically or at
	specific points in time
HOST-RESOURCES-MIB	For use in managing host systems
IF-MIB	For describing network interface sub-layers
IP-FORWARD-MIB	For the management of CIDR multipath IP Routes
IP-MIB	For IP and ICMP management objects
IPV6-ICMP-MIB	For entities implementing the ICMPv6
IPV6-MIB	For entities implementing the IPv6 protocol
IPV6-TCP-MIB	For entities implementing TCP over IPv6
IPV6-UDP-MIB	For entities implementing UDP over IPv6
NET-SNMP-AGENT-MIB	For monitoring structures for the Net-SNMP agent
NET-SNMP-EXTEND-MIB	For scripted extensions for the Net-SNMP agent
NET-SNMP-VACM-MIB	Defines Net-SNMP extensions to the standard VACM view
	table
NOTIFICATION-LOG-MIB	For logging SNMP Notifications
SNMP-COMMUNITY-MIB	To help support coexistence between SNMPv1, SNMPv2c,
	and SNMPv3
SNMP-FRAMEWORK-MIB	The SNMP Management Architecture MIB
SNMP-MPD-MIB	For Message Processing and Dispatching
SNMP-USER-BASED-SM-MIB	For the SNMP User-based Security Model
SNMP-VIEW-BASED-ACM-	For the View-based Access Control Model for SNMP
MIB	
SNMPv2-MIB	For SNMP entities
SYNOLOGY-DISK-MIB	For Synology disk information (Synology only)
SYNOLOGY-EBOX-MIB	For Synology ebox information (Synology only)

SYNOLOGY-FLASHCACHE-	For Synology FlashCache information (Synology only)
MIB	
SYNOLOGY-GPUINFO-MIB	For Synology GpulO information (Synology only)
SYNOLOGY-ISCSILUN-MIB	For Synology iSCSI LUN information (Synology only)
SYNOLOGY-ISCSITarget-	For Synology iSCSI Target information (Synology only)
MIB	
SYNOLOGY-NFS-MIB	For Synology NFS information (Synology only)
SYNOLOGY-PORT-MIB.txt	For Synology Ethernet Port information (Synology only)
SYNOLOGY-RAID-MIB	For Synology RAID information (Synology only)
SYNOLOGY-SERVICES-MIB	For Synology services information (Synology only)
SYNOLOGY-SHA-MIB	For Synology High-Availability information (Synology only)
SYNOLOGY-SMART-MIB	For Synology smart information (Synology only)
SYNOLOGY-SPACEIO-MIB	For Synology SpacelO information (Synology only)
SYNOLOGY-STORAGEIO-MIB	For Synology StorageIO information (Synology only)
SYNOLOGY-SYSTEM-MIB	For Synology system information (Synology only)
SYNOLOGY-UPS-MIB	For Synology UPS information (Synology only)
TCP-MIB	For managing TCP implementations
UCD-DISKIO-MIB	For disk IO statistics
UCD-DLMOD-MIB	For dynamic loadable MIB modules
UCD-SNMP-MIB	For private UCD SNMP MIB extensions
UDP-MIB	For managing UDP implementations

Synology MIB files

The following Synology MIB files are provided in DSM. These MIB files are the child-nodes of OID (Object Identifier) 1.3.6.1.4.1.6574. Table 3-1 shows the exact OID of each MIB. Please note that the MIB files are mutually dependent. Before your NMS can monitor any of the items in these MIB files, please make sure that all of them have been imported together and use SNMPv2c to obtain the complete Synology OID information.

Table 3-1 OID of Synology MIBs

OID	Name	File Name	Last updated version
.1.3.6.1.4.1.6574.1	synoSystem	SYNOLOGY-SYSTEM-MIB.txt	DSM 6.0.2
.1.3.6.1.4.1.6574.2	synoDisk	SYNOLOGY-DISK-MIB.txt	DSM 7.1
.1.3.6.1.4.1.6574.3	synoRaid	SYNOLOGY-RAID-MIB.txt	DSM 7.0
.1.3.6.1.4.1.6574.4	synoUPS	SYNOLOGY-UPS-MIB.txt	DSM 6.0.1
.1.3.6.1.4.1.6574.5	synologyDiskSMART	SYNOLOGY-SMART-MIB.txt	DSM 6.0.1
.1.3.6.1.4.1.6574.6	synologyService	SYNOLOGY-SERVICES-MIB.	DSM 6.2.1
		txt	
.1.3.6.1.4.1.6574.101	storageIO	SYNOLOGY-STORAGEIO-MIB.	DSM 6.1.7
		txt	
.1.3.6.1.4.1.6574.102	spaceIO	SYNOLOGY-SPACEIO-MIB.txt	DSM 6.0.1
.1.3.6.1.4.1.6574.103	flashCache	SYNOLOGY-FLASHCACHE-	DSM 6.2.2
		MIB.txt	
.1.3.6.1.4.1.6574.104	synologyiSCSILUN	SYNOLOGY-ISCSILUN-MIB.txt	DSM 6.1.7
.1.3.6.1.4.1.6574.105	synologyEbox	SYNOLOGY-EBOX-MIB	DSM 6.2.1
.1.3.6.1.4.1.6574.106	synologyHA	SYNOLOGY-SHA-MIB	DSM 6.2.2
.1.3.6.1.4.1.6574.107	NFS	SYNOLOGY-NFS-MIB.txt	DSM 7.0
.1.3.6.1.4.1.6574.108	GpuInfo	SYNOLOGY-GPUINFO-MIB.	DSM 6.2.2
		txt	
.1.3.6.1.4.1.6574.109	synoEthPort	SYNOLOGY-PORT-MIB.txt	SRM 1.2.5
.1.3.6.1.4.1.6574.110	synologyiSCSITarget	SYNOLOGY-ISCSITarget-MIB	DSM 7.0

Synology System MIB (OID: .1.3.6.1.4.1.6574.1)

The Synology System MIB displays all system statuses, including temperature and fan status. Users can monitor this MIB for system functionality. Table 3-2 shows information provided in the System MIB.

Table 3-2 System MIB

	Table 3-2 System wild							
OID	Name	Туре	Status Type	Explanation	Supported OS			
.1	systemStatus	Integer	Normal(1)	System partition	DSM, DSM			
			Failed(2)	status	UC			
.2	temperature	Integer	-	Temperature of this	DSM, DSM			
				NAS	UC			
.3	powerStatus	Integer	Normal(1)	Returns error if	DSM, DSM			
			Failed(2)	power supplies fail	UC			
.4.1	systemFanStatus	Integer	Normal(1)	Returns error if	DSM, DSM			
			Failed(2)	system fan fails	UC			
.4.2	cpuFanStatus	Integer	Normal(1)	Returns error if CPU	DSM, DSM			
			Failed(2)	fan fails	UC			
.5.1	modelName	String	-	Model name of this	DSM, DSM			
				NAS	UC			
.5.2	serialNumber	String	-	Model serial	DSM, DSM			
				number	UC			
.5.3	version	String	-	The version of DSM	DSM, DSM			
					UC			
.5.4	upgradeAvailable	Integer	Available(1)	Checks whether	DSM, DSM			
			Unavailable(2)	a new version or	UC			
			Connecting(3)	update of DSM is				
			Disconnected(4)	available				
			Others(5)					
.6	controllerNumber	Integer	Controller A(0)	The controller	DSM UC			
			Controller B(1)	number				

Synology Disk MIB (OID: .1.3.6.1.4.1.6574.2)

The Synology Disk MIB contains several types of information regarding hard drives, including ID, type and so on, as listed in Table 3-3. This MIB is a table in SNMP. As such, it can increase or decrease in size when disks are inserted or removed. For example, if a disk is inserted, an additional row containing relevant information will emerge. The OID DiskIndex (.1) is reserved for an index of table rows and cannot be accessed. Table 3-4 describes the contents of each DiskStatus in detail.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.2.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.2.1.1.3" can be used to get the disk model.

Table 3-3 Disk MIB

OID	Name	Туре	Status Type	Explanation	Supported OS
.1	diskIndex	Integer	-	Used internally for SNMP	DSM, DSM
				table and not accessible	UC
.2	diskID	String	-	Disk name in DSM	DSM, DSM
					UC
.3	diskModel	String	-	Disk model	DSM, DSM
					UC
.4	diskType	String	-	Disk type, e.g. SATA, SSD	DSM, DSM
					UC
.5	diskStatus	Integer	Normal(1)*	Current disk status	DSM, DSM
					UC
.6	diskTemperature	Integer	-	Disk temperature	DSM, DSM
					UC
.7	diskRole	String	data *	The role of the disk in	DSM 7.0
				system	and above
.8	diskRetry	Integer	-	The count of each disk	DSM 7.0
				connection retries	and above
.9	diskBadSector	Integer	-	The count of each disk I/	DSM 7.0
				O bad sector	and above
.10	diskIdentifyFail	Integer	-	The count of each disk	DSM 7.0
				identify fails	and above
.11	diskRemainLife	Integer	-	The estimate remain life	DSM 7.0
				of each disk	and above
.12	diskName	String	-	Disk name which will	DSM 7.0
				keep the same value in	and above
				different DSM version	
.13	diskHealthStatus	Integer	Normal(1)*	Current disk health status	DSM 7.1
					and above

^{*} For diskStatus details, please Table 3-4

Table 3-4 DiskStatus Explanation

Status	Explanation	Supported OS
Normal(1)	The disk is functioning normally	DSM, DSM UC
Initialized(2)	The disk has system partitions but no	DSM, DSM UC
	data	
NotInitialized(3)	The disk is not partitioned	DSM, DSM UC
SystemPartitionFailed(4)	Partitions on the disk are damaged	DSM, DSM UC
Crashed(5)	The disk is damaged	DSM, DSM UC

Table 3-5 DiskRole Explanation

Status	Explanation	Supported OS
data	Used by storage pool	DSM 7.0 and
		above
hotspare	Assigned as a hot spare disk	DSM 7.0 and
		above
ssd_cache	Used by SSD Cache	DSM 7.0 and
		above
none	Not used by storage pool, nor hot spare,	DSM 7.0 and
	nor SSD Cache	above
unknown	Some error occurred	DSM 7.0 and
		above

^{*} For diskRole details, please see Table 3-5

^{*} For diskHealthStatus details, please see Table 3-6

Table 3-6 diskHealthStatus Explanation

Status	Explanation	Supported OS
Normal(1)	The disk health status is	DSM 7.1 and above
	normal.	
Warning(2)	The disk health status is	DSM 7.1 and above
	warning.	
Critical(3)	The disk health status is	DSM 7.1 and above
	critical.	
Failing(4)	The disk health status is	DSM 7.1 and above
	failing.	

Synology RAID MIB (OID: .1.3.6.1.4.1.6574.3)

In addition to the disk MIB, Synology also provides an MIB for monitoring RAID status. This MIB is similar to the disk MIB in that rows will appear or disappear to reflect RAID creation and deletion. Table 3-7 lists the contents of the RAID MIB. Table 3-8 describes each RAID status in detail.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.3.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.3.1.1.3" can be used to get the RAID status.

Table 3-7 RAID MIB

OID	Name	Туре	Status Type	Explanation	Supported OS
.1	raidIndex	Integer	-	Used internally for	DSM, DSM UC
				SNMP table and not	
				accessible	
.2	raidName	String	-	The name of each	DSM, DSM UC
				RAID in DSM	
.3	raidStatus	Integer	Normal(1)*	It shows the RAID	DSM, DSM UC
				status right now	
.4	raidFreeSize	Counter64	-	The free size of	DSM, DSM UC
				volume / disk group	
.5	raidTotalSize	Counter64	-	The total size of	DSM, DSM UC
				volume / disk group	
.6	raidHotspareCnt	Integer	-	Total hotspare	DSM 7.0 and
				disks count which	above
				can protected raid	
				(smaller than 0 means	
				something wrong)	

^{*} For RAID status details, please Table 3-8

Table 3-8 RAID Status Explanation

Status	Explanation
Normal(1)	RAID is functioning normally
Repairing(2)	
Migrating(3)	
Expanding(4)	
Deleting(5)	
Creating(6)	These statuses are shown when RAID is created or
RaidSyncing(7)	deleted
RaidParityChecking(8)	
RaidAssembling(9)	
Canceling(10)	
Degrade(11)	Degrade is shown when a tolerable failure of disk(s)
	occurs
Crashed(12)	RAID has crashed and is now read-only
DataScrubbing (13)	RAID is DataScrubbing
RaidDeploying (14)	RAID is deploying Single volume on pool
RaidUnDeploying (15)	RAID is not deploying Single volume on pool
RaidMountCache (16)	RAID is mounting SSD cache
RaidUnmountCache (17)	RAID is not mounting SSD cache
RaidExpandingUnfinishedSHR	RAID continue expanding SHR if interrupted
(18)	
RaidConvertSHRToPool (19)	RAID is converting Single volume on SHR to multiple
	volume on SHR
RaidMigrateSHR1ToSHR2 (20)	RAID is migrating SHR1 to SHR2
RaidUnknownStatus (21)	RAID status is not included in the status above

Synology UPS MIB (OID: .1.3.6.1.4.1.6574.4)

The Synology UPS MIB provides the ability to monitor the status of a UPS device connected to the Synology servers. Please note that the available OIDs of the UPS MIB depend on what information is provided by the UPS device. If a UPS device does not provide data for a certain OID, that OID will not appear in the NMS software. Table 3-9 shows a partial UPS MIB table only. If you are interested in all OIDs, please refer to the MIB file SYNOLOGY-UPS-MIB.txt.

Table 3-9 Partial UPS MIB

	idale of a later of a later					
OID	Name	Туре	Status Type	Explanation	Supported OS	
.1.1	upsDeviceModel	String	-	UPS device model	DSM, DSM UC	
.1.2	upsDeviceManufacturer	String	-	UPS device manufacturer	DSM, DSM UC	
.1.3	upsDeviceSerial	String	-	UPS device serial number	DSM, DSM UC	
.2.1	upsInfoStatus	String	-	UPS device status	DSM, DSM UC	
.2.6.2	upsInfoMfrDate	String	-	UPS device manufacturing date	DSM, DSM UC	
.2.12.1	upsInfoLoadValue	Float	-	Load on UPS device (percent)	DSM, DSM UC	
.3.1.1	upsBatteryChargeValue	Float	-	Battery charge	DSM, DSM UC	

OID	Name	Туре	Status Type	Explanation	Supported OS
.3.1.4	upsBatteryChargeWarning	Float	-	Battery level	DSM, DSM UC
				at which UPS	
				switches to	
				Warning state	
				(percent)	
.3.12	upsBatteryType	Float	-	Battery chemistry	DSM, DSM UC

Synology Smart MIB (OID: .1.3.6.1.4.1.6574.5)

The Synology SMART MIB provides the SMART information of each disk same as Storage Manager does. Because every disk may have different SMART attributes, one OID records one SMART attribute and has diskSMARTInfoDevName to indicate which disk it belongs to.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.5.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.5.1.1.3" can be used to get the SMART attribute name.

Table 3-10 SMART MIB

OID	Name	Туре	Status Type	Explanation	Supported OS
.1	diskSMARTInfoIndex	Integer	-	Used internally for	DSM
				SNMP table and	
				not accessible	
.2	diskSMARTInfoDevName	String	-	Describes the	DSM
				disk to which	
				this SMART info	
				belongs to	
.3	diskSMARTAttrName	String	-	The name of	DSM
				the SMART info	
				attribute, e.g. Raw_	
				Read_Error_Rate	
.4	diskSMARTAttrId	Integer	-	SMART attribute ID	DSM
				number	
.5	diskSMARTAttrCurrent	Integer	-	SMART attribute	DSM
				current value	
.6	diskSMARTAttrWorst	Integer	-	SMART attribute	DSM
				worst value	
.7	diskSMARTAttrThreshold	Integer	-	SMART attribute	DSM
				threshold value	
.8	diskSMARTAttrRaw	Integer	-	SMART attribute	DSM
				raw value	
.9	diskSMARTAttrStatus	String	-	Status of this	DSM
				SMART info	
.10	diskSMARTAttrRaw64	Counter64	-	SMART attribute	DSM
				raw value (64 bit	
				VER.)	

Synology Services MIB (OID: .1.3.6.1.4.1.6574.6)

The Synology Services MIB monitors the number of users logging in via HTTP, CIFS, AFP, NFS, FTP, SFTP, TELNET, and SSH.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.6.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.6.1.1.2" can be used to get the service name.

Table 3-11 Services MIB

OID	Name	Туре	Status Type	Explanation
.1	serviceInfoIndex	Integer	-	Used internally for services table and not accessible
.2	serviceName	String	-	The name of the service
.3	serviceUsers	Integer	-	The number of users using this service

Synology StorageIO MIB (OID: .1.3.6.1.4.1.6574.101)

The Synology StorageIO MIB has I/O information of disks.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.101.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.101.1.1.2" can be used to get the name of the device that we are counting/checking.

Table 3-12 StorageIO MIB

OID	Name	Туре	Status Type	Explanation	Supported OS
.1	storageIOIndex	Integer	-	Used internally for	DSM, DSM
				storageio table and	UC
				not accessible	
.2	storageIODevice	String	-	The name of the	DSM, DSM
				device we are	UC
				counting/checking	
.3	storageIONRead	Counter32	-	The number of	DSM, DSM
				bytes read from this	UC
				device since boot	
				(32 bit VER.)	
.4	storageIONWritten	Counter32	-	The number of	DSM, DSM
				bytes written to this	UC
				device since boot	
				(32 bit VER.)	
.5	storageIOReads	Counter32	-	The number of read	DSM, DSM
				accesses from this	UC
				device since boot	
.6	storageIOWrites	Counter32	-	The number of	DSM, DSM
				write accesses to	UC
				this device since	
				boot	
.8	storageIOLA	Integer	-	The load of disk (%)	DSM, DSM
					UC
.9	storageIOLA1	Integer	-	The 1-minute	DSM, DSM
				average load of disk	UC
				(%)	

OID	Name	Туре	Status Type	Explanation	Supported OS
.10	storageIOLA5	Integer	-	The 5-minute	DSM, DSM
				average load of disk	UC
				(%)	
.11	storageIOLA15	Integer	-	The-15 minute	DSM, DSM
				average load of disk	UC
				(%)	
.12	storageIONReadX	Counter64	-	The number of	DSM, DSM
				bytes read from this	UC
				device since boot	
				(64 bit VER.)	
.13	storageIONWrittenX	Counter64	-	The number of	DSM, DSM
				bytes written to this	UC
				device since boot	
				(64 bit VER.)	
.14	storageIODeviceSerial	String		The serial number	DSM UC
				of this device	

Synology SpaceIO MIB (OID: .1.3.6.1.4.1.6574.102)

The Synology SpaceIO MIB has I/O information of volumes.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.102.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.102.1.1.2" can be used to get the name of the device where this volume is mounted.

Table 3-13 SpaceIO MIB

OID	Name	Туре	Status Type	Explanation	Supported OS
.1	spaceIOIndex	Integer	-	Used internally for spaceIO	DSM, DSM
				table and not accessible	UC
.2	spaceIODevice	String	-	The name of the device	DSM, DSM
				this volume mounted on	UC
.3	spaceIONRead	Counter32	-	The number of bytes read	DSM, DSM
				from this volume since	UC
				boot	
				(32 bit VER.)	
.4	spaceIONWritten	Counter32	-	The number of bytes	DSM, DSM
				written to this volume	UC
				since boot	
				(32 bit VER.)	
.5	spaceIOReads	Counter32	-	The number of read	DSM, DSM
				accesses from this volume	UC
				since boot	
.6	spaceIOWrites	Counter32	-	The number of write	DSM, DSM
				accesses to this volume	UC
				since boot	
.8	spaceIOLA	Integer	-	The load of disk in the	DSM, DSM
				volume (%)	UC
.9	spaceIOLA1	Integer	-	The 1 minute average load	DSM, DSM
				of disk in the volume (%)	UC
.10	spaceIOLA5	Integer	-	The 5 minute average load	DSM, DSM
				of disk in the volume (%)	UC

OID	Name	Туре	Status Type	Explanation	Supported OS
.11	spaceIOLA15	Integer	-	The 15 minute average	DSM, DSM
				load of disk in the volume	UC
				(%)	
.12	spaceIONReadX	Counter64	-	The number of bytes read	DSM, DSM
				from this volume since	UC
				boot	
				(64 bit VER.)	
.13	spaceIONWrittenX	Counter64	-	The number of bytes	DSM, DSM
				written to this volume	UC
				since boot	
				(6.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
				(64 bit VER.)	
.14	spaceUUID	String	-	The UUID of this volume	DSM UC

Synology FlashCache MIB (OID: .1.3.6.1.4.1.6574.103)

The Synology FlashCache MIB monitors the resource usage of SSD cache. The collection frequency is 5 seconds.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.103.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.103.1.1.2" can be used to get the name of the SSD on the flashcache that we are counting/checking.

Note: The MIB is only suitable for the model which support SSD cache. Otherwise, it will return zero value for each OID path.

Table 3-14 FlashCache MIB

OID	Name	Туре	Status Type	Explanation	Supported OS
.1	flashCacheIndex	Integer	-	Reference index	DSM, DSM
				for each observed	UC
				device	
.2	flashCacheSSDDev	String	-	The SSD device	DSM, DSM
				name on flashcache	UC
				we are counting/	
				checking	
.3	flashCacheSpaceDev	String	-	The space device	DSM, DSM
				name on flashcache	UC
				we are counting/	
				checking	
.4	flashCacheReadHits	Counter64	-	The number of	DSM, DSM
				reads on flashcache	UC
.5	flashCacheWriteHits	Counter64	-	The number of	DSM, DSM
				writes on flashcache	UC
.6	flashCacheDiskRead	Counter64	-	The number of	DSM, DSM
				reads on disk	UC
.7	flashCacheDiskWrite	Counter64	-	The number of	DSM, DSM
				writes on disk	UC
.8	flashCacheTotalRead	Counter64	-	The number of	DSM, DSM
				reads on volume	UC
				with flashcache	

OID	Name	Туре	Status Type	Explanation	Supported OS
.9	flashCacheTotalWrite	Counter64	-	The number of	DSM, DSM
				writes on volume	UC
				with flashcache	
.10	flashCacheReadHitRate	Integer	-	The read hit rate of	DSM, DSM
				flashcache (%)	UC
.11	flashCacheWriteHitRate	Integer	-	The write hit rate of	DSM, DSM
				flashcache (%)	UC
.12	flashCacheReadSeqSkip	Counter64	-	The number of	DSM, DSM
				skipped sequential	UC
				reads on flashcache	
.13	flashCacheWriteSeqSkip	Counter64	-	The number of	DSM, DSM
				skipped sequential	UC
				writes on flashcache	
.14	flashCacheWriteMissSsd	Counter64	-	The number of data	DSM, DSM
				writes to SSD for the	UC
				first time	
.15	flashCacheSsdUuid	String	-	The SSD UUID on	DSM, DSM
				flashcache we are	UC
				counting/checking	

Synology iSCSI LUN MIB (OID: .1.3.6.1.4.1.6574.104)

The Synology iSCSI LUN MIB can list all the loaded LUNs and show their running information. If a LUN has been created but not loaded (e.g. when linked to a target), it will not appear in this list. The throughput is 64-bit and composed of two 32-bit integers. For example, the iSCSI LUN read throughput is composed of higher 32-bit and lower 32-bit throughput.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.104.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.104.1.1.2" can be used to get the iSCSI LUN uuid.

Table 3-15 iSCSI LUN MIB

OID	Name	Туре	Status Type	Explanation	Supported OS
.1	iSCSILUNInfoIndex	Integer	-	Used	DSM, DSM
				internally for	UC
				iSCSI LUN	
				table and not	
				accessible	
.2	iscsilunuuid	String	-	LUN uuid	DSM, DSM
					UC
.3	iSCSILUNName	String	-	LUN name	DSM, DSM
					UC
.4	iSCSILUNThroughputReadHigh	Integer	-	The higher	DSM, DSM
				32 bit of read	UC
				throughput	
.5	iSCSILUNThroughputReadLow	Integer	-	The lower 32	DSM, DSM
				bit of read	UC
				throughput	
.6	iSCSILUNThroughputWriteHigh	Integer	-	The higher 32	DSM, DSM
				bit of write	UC
				throughput	

OID	Name	Туре	Status Type	Explanation	Supported OS
.7	iSCSILUNThroughputWriteLow	Integer	-	The lower 32 bit of write throughput	DSM, DSM UC
.8	iSCSILUNIopsRead	Integer	-	LUN read iops	DSM, DSM UC
.9	iSCSILUNIopsWrite	Integer	-	LUN write iops	DSM, DSM UC
.10	iSCSILUNDiskLatencyRead	Integer	-	LUN read disk latency	DSM, DSM UC
.11	iSCSILUNDiskLatencyWrite	Integer	-	LUN write disk latency	DSM, DSM UC
.12	iSCSILUNNetworkLatencyTx	Integer	-	LUN network tx latency	DSM, DSM UC
.13	iSCSILUNNetworkLatencyRx	Integer	-	LUN network rx latency	DSM, DSM UC
.14	isCsILUNIoSizeRead	Integer	-	LUN read average i/o size	DSM, DSM UC
.15	iSCSILUNIoSizeWrite	Integer	-	LUN write average i/o size	DSM, DSM UC
.16	iSCSILUNQueueDepth	Integer	-	Number of iSCSI commands in LUN queue	DSM, DSM UC
.17	iSCSILUNType	String	-	LUN type (advanced lun, block lun, etc.)	DSM, DSM UC
.18	iSCSILUNDiskLatencyAvg	Integer	-	Average latency of LUN disk	DSM 7.0 and above
.19	iSCSILUNThinProvisionVolFreeMBs	Integer	-	Free space(MB) of thin provisioning lun's volume	DSM 7.0 and above

Synology Ebox MIB (OID: .1.3.6.1.4.1.6574.105)

The Synology Ebox MIB provides the power status of expansion unit connected to Synology servers. Table 3-16 shows the information provided in ebox MIB. Table 3-17 describes the content of each eboxPower and eboxRedundantPower status in detail.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.105.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.105.1.1.2" can be used to get the expansion unit model.

Table 3-16 Ebox MIB

OID	Name	Туре	Status Type	Explanation
.1	eboxIndex	Integer	-	Expansion unit Index
.2	eboxModel	String	-	Expansion unit model

OID	Name	Туре	Status Type	Explanation
.3	eboxPower	Integer	Normal (1)*	Power status of expansion unit
.4	eboxRedundantPower	Integer	Normal (1)*	Redundant power status of
				expansion unit (if the ebox has no
				redundant power interface, this OID
				will not appear)

^{*} For eboxPower and eboxRedundantPower details, please see Table 3-17.

Table 3-17 Ebox Power and Redundant Power Status Explanation

Status	Explanation
Normal (1)	The power supplies well
Poor (2)	The power supplies badly
Disconnection (3)	The power is not connected

Synology SHA MIB (OID: .1.3.6.1.4.1.6574.106)

The Synology SHA MIB provides basic cluster information and monitors cluster status and heartbeat status.

Table 3-18 SHA MIB

OID	Name	Туре	Status Type	Explanation	Supported OS
.1	activeNodeName	String	-	Hostname of active server	DSM
.2	passiveNodeName	String	-	Hostname of passive server	DSM
.3	clusterAutoFailover	Integer	true (1)	Whether cluster can failover	DSM
				once something went wrong	
			false (2)		
.4	clusterName	String	-	Hostname of High-Availability	DSM
				cluster	
.5	clusterStatus	Integer	*	Status of High-Availability	DSM
				cluster	
.6	heartbeatStatus	Integer	*	Status of heartbeat connection	DSM
.7	heartbeatTxRate	Integer	-	Transfer speed of heartbeat in	DSM
				kilo-byte-per-second	
.8	heartbeatLatency	Integer	-	Heartbeat latency in	DSM
				microseconds (10^-6 seconds)	

^{*} For clusterStatus details, please see Table 3-19.

Table 3-19 Cluster Status Explanation

Status	Explanation	Supported OS
normal (0)	The High-Availability cluster is healthy	DSM
warning (1)	The High-Availability cluster has something went wrong.	DSM
	Action should be taken to resume High-Availability feature.	
	Please refer to High-Availability Manager for more details.	
critical (2)	The High-Availability cluster is in danger, and should be	DSM
	resolved as soon as possible.	
	Please refer to High-Availability Manager for more details.	
upgrading	The High-Availability cluster is upgrading.	DSM
(3)		
processing	The High-Availability cluster is undergoing some operation.	DSM
(4)		

Table 3-20 Heartbeat Status Explanation

^{*} For heartbeatStatus details, please see Table 3-20.

Status	Explanation	Supported OS
normal (0)	The heartbeat connection is normal.	DSM
abnormal (1)	Some information about heartbeat is not available.	DSM
disconnected	The High-Availability cluster loses connection to passive	DSM
(2)	server through heartbeat interface, or it is currently in	
	split-brain mode.	
empty (3)	The High-Availability cluster has no passive server.	DSM

Synology NFS MIB (OID: .1.3.6.1.4.1.6574.107)

The Synology NFS MIB monitors the maximum latency and operations of NFS. Every value will be cached for 3 seconds. Therefore, if you access a value twice within 3 seconds, you will get the same value. The maximum latency will always clear the cache and recount the value once the value has been updated.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.107.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.107.1.1.2" can be used to get the name of NFS.

Table 3-21 NFS MIB

	Table 5 21 M 5 Mib						
OID	Name	Туре	Status Type	Explanation	Supported OS		
.1	nfsIndex	Integer	-	Used internally for NFS	DSM 7.0		
				table and not accessible	and above		
.2	nfsName	String	-	The name of NFS	DSM 7.0		
					and above		
.3	nfsTotalMaxLatency	Integer	-	Maximum latency of all the	DSM 7.0		
				NFS operations	and above		
.4	nfsReadMaxLatency	Integer	-	Maximum latency of the	DSM 7.0		
				NFS read operations	and above		
.5	nfsWriteMaxLatency	Integer	-	Maximum latency of the	DSM 7.0		
				NFS write operations	and above		
.6	nfsTotalOPS	Counter64	-	Accumulated counts of all	DSM 7.0		
				the NFS operations	and above		
.7	nfsReadOPS	Counter64	-	Accumulated counts of the	DSM 7.0		
				NFS read operations	and above		
.8	nfsWriteOPS	Counter64	-	Accumulated counts of the	DSM 7.0		
				NFS write operations	and above		

Synology GPUInfo MIB (OID: .1.3.6.1.4.1.6574.108)

The Synology GPUInfo MIB monitors the resource usage of GPU card. The collection frequency is 5 seconds.

Note: The MIB is only available on models which supports GPU card such as the DVA3221. Otherwise, it will return zero value for each OID path.

Table 3-22 GPUInfo MIB

OID	Name	Туре	Status Type	Explanation	Supported OS
.1	gpuInfoSupported	Integer	Supported	Supported GPU	DSM
			(0)		
			Unsupported		
			(1)		
.2	gpuUtilization	Integer	-	The percentage of	DSM
				GPU time spent	
				on processing	
				user space in last	
				1 second	
.3	gpuMemoryUtilization	Integer	-	The percentage	DSM
				of GPU memory	
				usage in last 1	
				second	
.4	gpuMemoryFree	Integer	-	The amount of	DSM
				currently free GPU	
				memory in kb	
.5	gpuMemoryUsed	Integer	-	The amount of	DSM
				currently used	
				GPU memory in	
				kb	
.6	gpuMemoryTotal	Integer	-	The total physical	DSM
				GPU memory size	

Synology Port MIB (OID: .1.3.6.1.4.1.6574.109)

The Synology Port MIB defines the status of each Ethernet port, such as link status and link speed, as listed in Table 3-23. The cache interval is 5 seconds.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.109.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.109.1.1.2" can be used to get the link status of the Ethernet port.

Note: The MIB is only available on models running SRM, such as RT2600ac.

Table 3-23 Port MIB

OID	Name	Туре	Status Type	Explanation	Supported OS
.1	ethPortIndex	Integer32	-	Used internally for SNMP	SRM 1.2.5
				table and not accessible	and above
.2	ethPortStatus	Integer	unknown(1)	The link status of the	SRM 1.2.5
			up(2)	Ethernet port	and above
			down(3)		
.3	ethPortSpeed	Gauge32	-	The link speed of the	SRM 1.2.5
				Ethernet port in units of	and above
				1,000,000 bits per second	

Synology iSCSI Target MIB (OID: .1.3.6.1.4.1.6574.110)

The Synology iSCSI Target MIB can list all iSCSI targets and show their basic information, such as target name, IQN and connection status.

In order to directly access a specific OID, you must use ".1.3.6.1.4.1.6574.110.1.1" as a prefix since this MIB contains the relative table and entry number. For example, ".1.3.6.1.4.1.6574.110.1.1.2" can be used to get the iSCSI target name.

Table 3-24 iSCSI Target MIB

OID	Name	Туре	Status Type	Explanation	Supported OS
.1	iSCSITargetInfoIndex	Integer32	-	Used	DSM 7.0
				internally for	and above
				SNMP table	
				and not	
				accessible	
.2	iSCSITargetName	String	-	Name of the	DSM 7.0
				iSCSI target	and above
.3	iSCSITargetIQN	String	-	IQN of the	DSM 7.0
				iSCSI target	and above
.4	iSCSITargetConnectionStatus	String	-	Connection	DSM 7.0
				status of the	and above
				iSCSI target	

Useful OIDs

Although there are many native MIB files supported by Synology, user may be interested in specific information about the Synology servers, such as CPU, memory and so on. The tables below list the native OIDs related to load, CPU, memory, network and disk for gathering useful device's data easily.

Table 4-1 CPU-Related OID

OID	Name	Explanation	Supported OS
.1.3.6.1.4.1.2021.10.1.5.1	laLoadInt.1	LoadInt.1 System load average within	
		the last 1 minute	UC
.1.3.6.1.4.1.2021.10.1.5.2	laLoadInt.2	System load average within	DSM, DSM
		the last 5 minutes	UC
.1.3.6.1.4.1.2021.10.1.5.3	laLoadInt.3	System load average within	DSM, DSM
		the last 15 minutes	UC
.1.3.6.1.4.1.2021.11.9.0	ssCpuUser	The percentage of CPU time	DSM, DSM
		spent processing user-level	UC
		code	
.1.3.6.1.4.1.2021.11.10.0	ssCpuSystem	The percentage of CPU time	DSM, DSM
		spent processing system-	UC
		level code, calculated over	
		the last minute	
.1.3.6.1.4.1.2021.11.11.0	ssCpuIdle	The percentage of	DSM, DSM
		processor time spent idle,	UC
		calculated over the last	
		minute	

Table 4-2 Memory-Related OID

OID	Name	Explanation	Supported OS
.1.3.6.1.4.1.2021.4.3.0	memTotalSwap	The total amount of swap	DSM, DSM
		space configured for this	UC
		host	
.1.3.6.1.4.1.2021.4.4.0	memAvailSwap	The amount of swap	DSM, DSM
		space currently unused or	UC
		available	
.1.3.6.1.4.1.2021.4.5.0	memTotalReal	The total amount of real/	DSM, DSM
		physical memory	UC
.1.3.6.1.4.1.2021.4.6.0	memAvailReal	The amount of real/physical	DSM, DSM
		memory currently unused	UC
		or available	
.1.3.6.1.4.1.2021.4.11.0	memTotalFree	The total amount of	DSM, DSM
		memory free or available	UC
		for use on this host (This	
		value typically covers both	
		real memory and swap	
		space or virtual memory.)	

OID	Name	Explanation	Supported OS
.1.3.6.1.4.1.2021.4.13.0	memShared	The total amount of real or	DSM, DSM
		virtual memory currently	UC
		allocated for use as shared	
		memory	
.1.3.6.1.4.1.2021.4.14.0	memBuffer	The total amount of real or	DSM, DSM
		virtual memory currently	UC
		allocated for use as	
		memory buffers	
.1.3.6.1.4.1.2021.4.15.0	memCached	The total amount of real or	DSM, DSM
		virtual memory currently	UC
		allocated for use as cached	
		memory	

Table 4-3 Network-Related OID

OID	Name	Explanation	Supported OS
.1.3.6.1.2.1.31.1.1.1.1	ifName	The textual name of the	DSM, DSM
		interface	UC
.1.3.6.1.2.1.31.1.1.1.6	ifHCInOctets	The total number of	DSM, DSM
		octets received on the	UC
		interface	
.1.3.6.1.2.1.31.1.1.1.10	ifHCOutOctets	The total number of	DSM, DSM
		octets transmitted out of	UC
		the interface	

Table 4-4 Disk-Related OID

OID	Name	Explanation	Supported OS
.1.3.6.1.2.1.25.2.3.1.3	hrStorageDescr	A description of the	DSM, DSM
		type and instance of the	UC
		storage described by this	
		entry	
.1.3.6.1.2.1.25.2.3.1.4	hrStorageAllocationUnits	The size, in bytes, of the	DSM, DSM
		data objects allocated	UC
		from this pool	
.1.3.6.1.2.1.25.2.3.1.5	hrStorageSize	The size of the storage	DSM, DSM
		represented by this	UC
		entry, in units of	
		hrStorageAllocationUnits	
.1.3.6.1.2.1.25.2.3.1.6	hrStorageUsed	The amount of the	DSM, DSM
		storage represented by	UC
		this entry	
.1.3.6.1.4.1.2021.13.15.1.1.2	diskIODevice	The name of the device	DSM, DSM
		we are counting/checking	UC
.1.3.6.1.4.1.2021.13.15.1.1.12	diskIONReadX	The number of bytes	DSM, DSM
		read from this device	UC
		since boot	
.1.3.6.1.4.1.2021.13.15.1.1.13	diskIONWrittenX	The number of bytes	DSM, DSM
		written to this device	UC
		since boot	
.1.3.6.1.4.1.6574.2	synoDisk	For Synology disk	DSM, DSM
		information (Synology	UC
		only)	

Table 4-5 System-Related OID

OID	Name	Explanation	Suported OS
.1.3.6.1.4.1.6574.1	synoSystem	For Synology system	DSM, DSM UC
		information (Synology only)	

Table 4-6 RAID-Related OID

OID	Name	Explanation	Suported OS
.1.3.6.1.4.1.6574.3	synoRaid	For Synology RAID	DSM, DSM UC
		information (Synology only)	

Table 4-7 UPS-Related OID

OID	Name	Explanation	Suported OS
.1.3.6.1.4.1.6574.4	synoUPS	For Synology UPS information	DSM, DSM UC
		(Synology only)	

Monitor Specific OIDs

In any NMS, particular MIB files are needed in order to capture data through SNMP. Users need to import all MIB files to ensure that the NMS can resolve specific OIDs. Once imported, data can be captured by setting up the NMS. Although the means of operating different kinds of NMS may vary, the process of OID monitoring is similar. The overall procedure is as follows.

- 1. Import MIB file into NMS.
- 2. Set up the NMS to monitor specific OIDs.

The following guide demonstrates the usage of PRTG (a type of NMS) including how to import MIB files and set up monitoring for the provided OIDs. For further help regarding PRTG, please consult PRTG documentation, as the following is only intended to be a brief description of OID monitoring.

Import MIB Files

As PRTG cannot import MIB files directly, Paessler MIB Importer is required to convert MIB files into the PRTG format:

- 1. Download Paessler MIB Importer from http://www.paessler.com/tools/mibimporter and install it on your computer.
- 2. Go to Import > MIB Files.
- 3. Choose all the Synology MIB file together and click Open File.

All MIB files (cf. Table 2-1) must be imported together as they are mutually dependent and Paessler MIB Importer cannot load them individually. If the import is successful, a window as shown in Figure 1 should appear. Detailed information is shown in Figure 2.

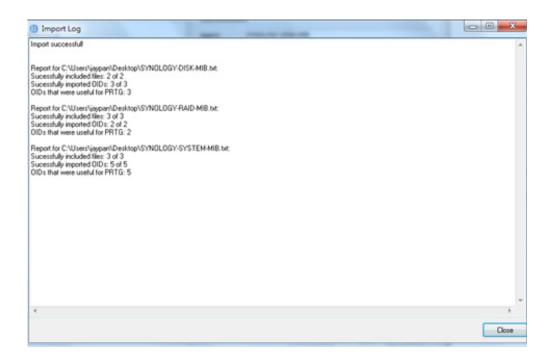


Figure 1. Import MIB: Successful

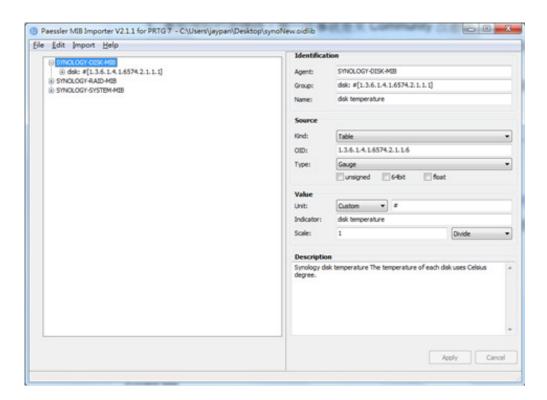


Figure 2. Detailed Information on MIB

4. Go to **File** > **Save As** to export to the PRTG-supported format.

A PRTG-supported library containing the MIB information will then be generated.

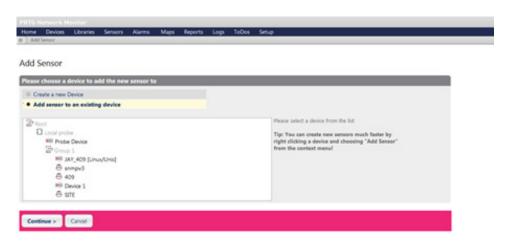
Set up the NMS

The PRTG-supported library containing the MIB files in question should be placed into the folder: "snmplibs". Once this has been done, specific OIDs can be set up for monitoring in PRTG. This guide assumes that your Synology servers has already been added to the devices list and focuses only on how to add OIDs for monitoring.

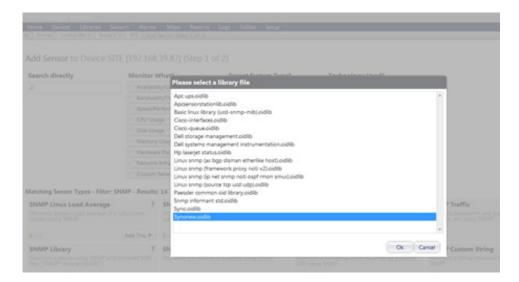
- 1. Enter the PRTG Network Monitor.
- 2. Go to Sensors > Add Sensor.



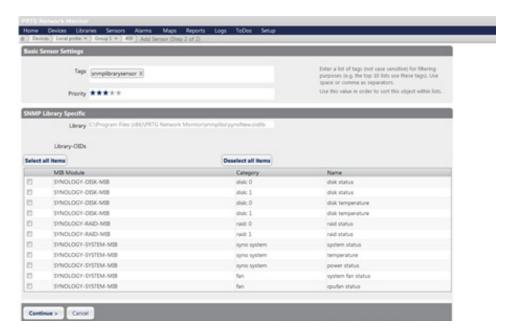
3. Click Add sensor to an existing device and choose a device.



4. Choose **SNMP Library** and the library exported in the previous section.



5. Select items for monitoring.



Document Revision History

This table describes the revisions made to Synology servers MIB Guide.

Table 6-1 Document Revision History

Date	Note
2012-07-19	Document created
2013-10-29	Modified OID name and added UPS MIB
2013-11-04	Added more MIBs and useful OID
2016-10-31	Added more MIBs
2018-06-30	Added Ebox MIB
	Added useful OIDs in RAID MIB
2018-12-18	Added GPUInfo MIB
	Added FlashCache MIB
2018-12-24	Added SHA MIB
2020-01-10	Added information for Synology Unified Controller and eGPU
	MIB
2021-02-23	Added PORT MIB for SRM
2021-05-25	Added NFS MIB and iSCSI Target MIB
2022-04-19	Added useful OIDs in Disk MIB

Copyright and Disclaimer Notices

Synology Inc.
© 2015-2022 Synology Inc.
All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, mechanical, electronic, photocopying, recording, or otherwise, without prior written permission of Synology Inc., with the following exceptions: Any person is hereby authorized to store documentation on a single computer for personal use only and to print copies of documentation for personal use provided that the documentation contains Synology's copyright notice.

The Synology logo is a trademark of Synology Inc.

No licenses, express or implied, are granted with respect to any of the technology described in this document. Synology retains all intellectual property rights associated with the technology described in this document. This document is intended to assist application developers to develop applications only for Synology-labelled computers.

Every effort has been made to ensure that the information in this document is accurate. Synology is not responsible for typographical errors.

Synology Inc.

9F., No.1. Yuandong Rd., Banqiao Dist., New Taipei City 220, Taiwann

Synology and the Synology logo are trademarks of Synology Inc., registered in the United States and other countries.

Marvell is registered trademarks of Marvell Semiconductor, Inc. or its subsidiaries in the United States and other countries.

Freescale is registered trademarks of Freescale Semiconductor, Inc. or its subsidiaries in the United States and other countries.

Other products and company names mentioned herein are trademarks of their respective holders.

Even though Synology has reviewed this document, SYNOLOGY MAKES NO WARRANTY OR REPRESENTATION, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS DOCUMENT, ITS QUALITY, ACCURACY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. AS A RESULT, THIS DOCUMENT IS PROVIDED "AS IS," AND YOU, THE READER, ARE ASSUMING THE ENTIRE RISK AS TO ITS QUALITY AND ACCURACY. IN NO EVENT WILL SYNOLOGY BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY DEFECT OR INACCURACY IN THIS DOCUMENT, even if advised of the possibility of such damages.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED. No Synology dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

Some states do not allow the exclusion or limitation of implied warranties or liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



SYNOLOGY INC.

9F, No. 1, Yuandong Rd. Banqiao Dist., New Taipei City 220545 Taiwan Tel: +886 2 2955 1814

SYNOLOGY AMERICA CORP.

3535 Factoria Blvd SE, Suite #200, Bellevue, WA 98006 USA Tel: +1 425 818 1587

SYNOLOGY UK LTD.

Unit 5 Danbury Court, Linford Wood, Milton Keynes, MK14 6PL United Kingdom Tel.: +44 (0)1908048029

SYNOLOGY FRANCE

102 Terrasse Boieldieu (TOUR W) 92800 Puteaux France Tel: +33 147 176288

SYNOLOGY GMBH

Grafenberger Allee 295 40237 Düsseldorf Deutschland Tel: +49 211 9666 9666

SYNOLOGY SHANGHAI

200070, Room 201, No. 511 Tianmu W. Rd., Jingan Dist., Shanghai,

SYNOLOGY JAPAN CO., LTD.

4F, No. 3-1-2, Higashikanda, Chiyoda-ku, Tokyo, 101-0031

Synology®



synology.com

Synology may make changes to specifications and product descriptions at any time, without notice. Copyright © 2022 Synology Inc. All rights reserved. ® Synology and other names of Synology Products are proprietary marks or registered trademarks of Synology Inc. Other products and company names mentioned herein are trademarks of their respective holders.