

SSD Suite for Nextorage

Version: 1.0

User Guide

Revision History

Date	Revision	Description
3/15/2024	1.0	Initial release for Nextorage version

FNet Co., Ltd. Privacy Statement

At FNet, we value our clients' privacy and recognize its significance. In accordance with the EU General Data Protection Regulation (GDPR), we have provided a privacy statement that outlines how we collect, use, and transfer your personal information. We aim to ensure that you are fully informed about how we handle your personal information.

How does FNet collect and use my personal data?

At FNet, we collect information solely for the purpose of providing the services you have selected. In order to deliver our products and services, we may request personal information from you, such as your email address. Please note that the information we gather and retain includes the following crucial details:

1. Your email address, which is used as the primary means of communication and identification for our services.
2. Your IP address and SSD unique identification code (comprising SSD model, serial number, VID, PID) are utilized for security measures, fraud prevention, software registration, support services, and transactions.
3. To provide software registration, device delivery, and billing confirmation services.
4. The version number of this software is employed to determine the software version and provide updated information to you when the software is updated.
5. The SSD firmware version is used to determine the upgrade of the SSD firmware.

How long do we keep your information and where do we store it?

How long your data will be kept depends on the legal basis upon which your data is processed. For example, data we process to perform a contract with you requires us

to retain it for the entire time you use SSD Suite for Nextorage. We will retain and process this data as long as you are a valid user of SSD Suite for Nextorage. We may also collect this information to perform analytics so that we can develop improvements to SSD Suite for Nextorage to enhance the software experience.

Please note that although we intend to keep your data for the above periods, your data may be processed for longer periods by applicable law. For example, if specific regulations require us to require specific data, we will comply with the request and retain the data until the required retention period is met.

Your data will be protected for as long as we retain it.

If your personal information is transferred and stored to other countries/regions; such countries/regions include but are not limited to countries/regions in the European Economic Area and the United States. All international data transfers will comply with legal requirements to ensure that your personal information is handled securely and in the manner you expect.

FNet collects relevant information for the above purposes. The following sets out the legal basis for FNet to process personal information:

Comply with our commitment to you GDPR Article 6(1)(b)

· Provide you with relevant versions and related services of SSD Suite for Nextorage

Advancing our business interests GDPR Article 6(1)(f)

· To operate, evaluate, and improve SSD Suite for Nextorage and our business;

- *Maintain appropriate security measures.*
- *Ensure accountability, including compliance with industry standards and enforcement of our policies.*

Compliance with law and legal procedure GDPR Art. 6(1)(c)

- *Comply with applicable rules, regulations, and court orders.*

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User Notice

1. SSD Suite for Nextorage does not require an internet connection to run. However, an internet connection is required to register the new SSD, get updates for the latest Firmware, Feature modules, or application, and authenticate the SSDs.
2. The SSD should not be disconnected from the system while Firmware Update, Secure Erase, or Clone features are in progress. Doing so could result in data corruption.
3. All parallel operations should be terminated before executing Firmware Update, Secure Erase, or Clone features.
4. Data corruption may result if the user terminates the SSD Suite for Nextorage application abnormally while Firmware Update, Secure Erase, or Clone features are in progress.
5. There is always the risk of data loss when updating SSD firmware. It is imperative that the user back up any important data before performing a firmware update.

System Requirements

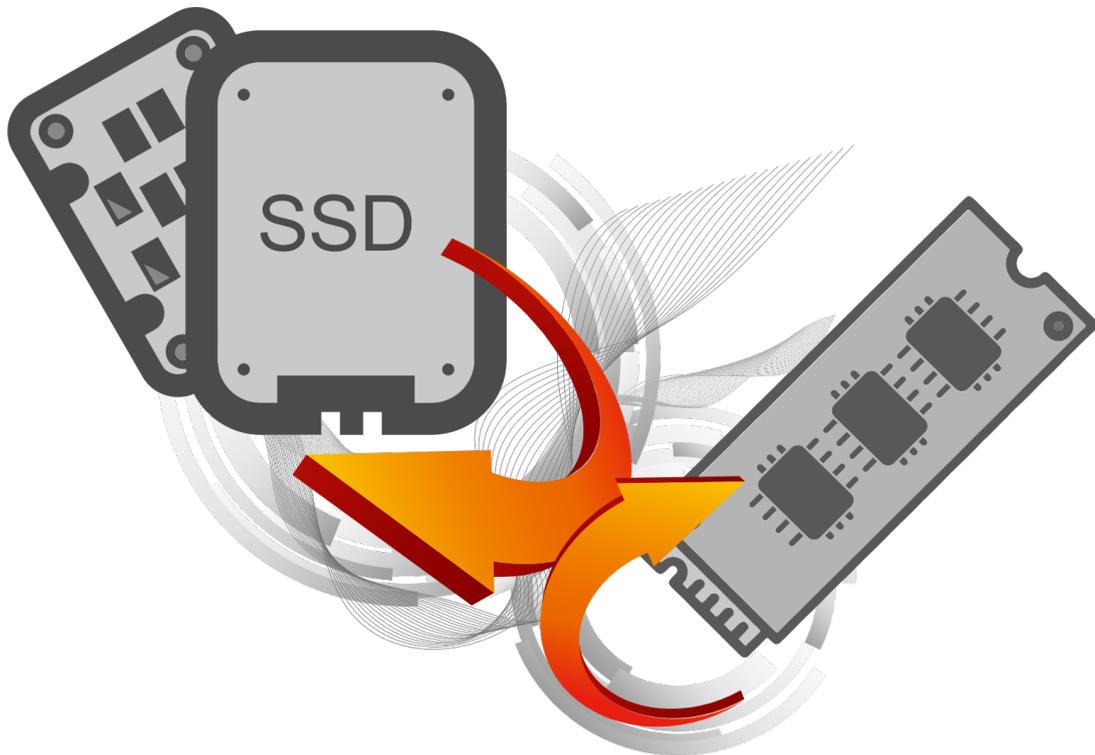
Support	Requirements
Operating System	Windows 10 (32/64bit) Windows 11 (64bit)
Disk Capacity	Minimum 15MB available for installation
Supported Partition Types	MBR, GPT
Supported Languages	English, Chinese (Traditional), Chinese (Simplified), Japanese, French, German
SSD Interface	SATA, M.2, NVMe, USB
SSD Driver	Microsoft, Intel, AMD, NVIDIA

* Some limitations exist depending on the type of storage and model.

Empower your SSD

SSD Suite for Nextorage is an SSD management program designed for desktop computers, notebook computers, SSDs, and external SSDs. It can fully release the full potential of SSD.

The intuitive operation interface of SSD Suite for Nextorage allows anyone to easily operate the SSD optimization tool. Like a professional, monitor the operating status of the SSD, master the health status of the SSD, extend the life of the SSD, quickly erase the data on the SSD, and move the entire Windows system to another SSD more easily, customize your SSD and maximize performance.



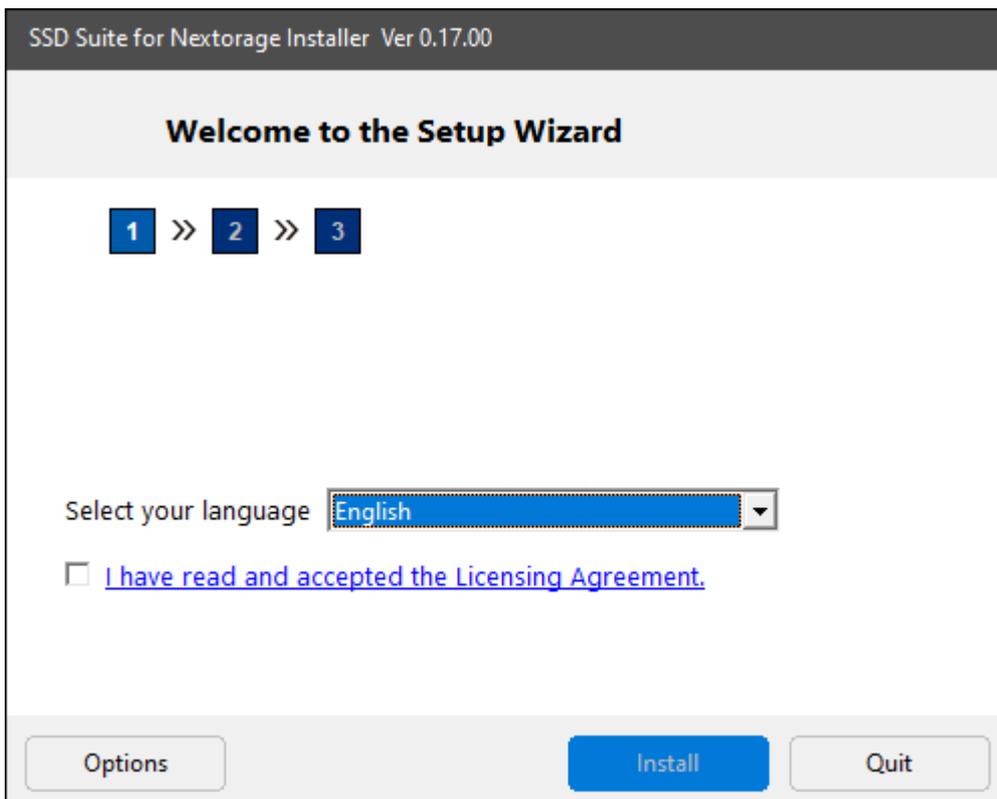
Limitations

- 1 . SSD Suite for Nextorage does not work with SSDs connected via the SCSI controller interface.
- 2 . Only MBR and GPT partition types are supported. SSD Suite for Nextorage may not work with other partition types.
- 3 . SSD Suite for Nextorage may not work on SSDs that are locked with TCG OPAL Security.
- 4 . SSD Suite for Nextorage may not work on SSDs that use Intel VMD technology.
- 5 . RAID on mode in SATA configuration is not supported by SSD Suite for Nextorage.
- 6 . If you are using any custom storage driver, then SSD Suite for Nextorage may not work properly. Please always use the Microsoft driver.
- 7 . It may restart your Windows after you install SSD Suite for Nextorage.
- 8 . It is necessary to restart your Windows after you update your firmware for SSD.
- 9 . The firmware update function would not support the SSD connection by USB interface.
- 10 . Some functions will need the administrator mode (UAC), please accept to run in administrator mode and the functions will be enabled.



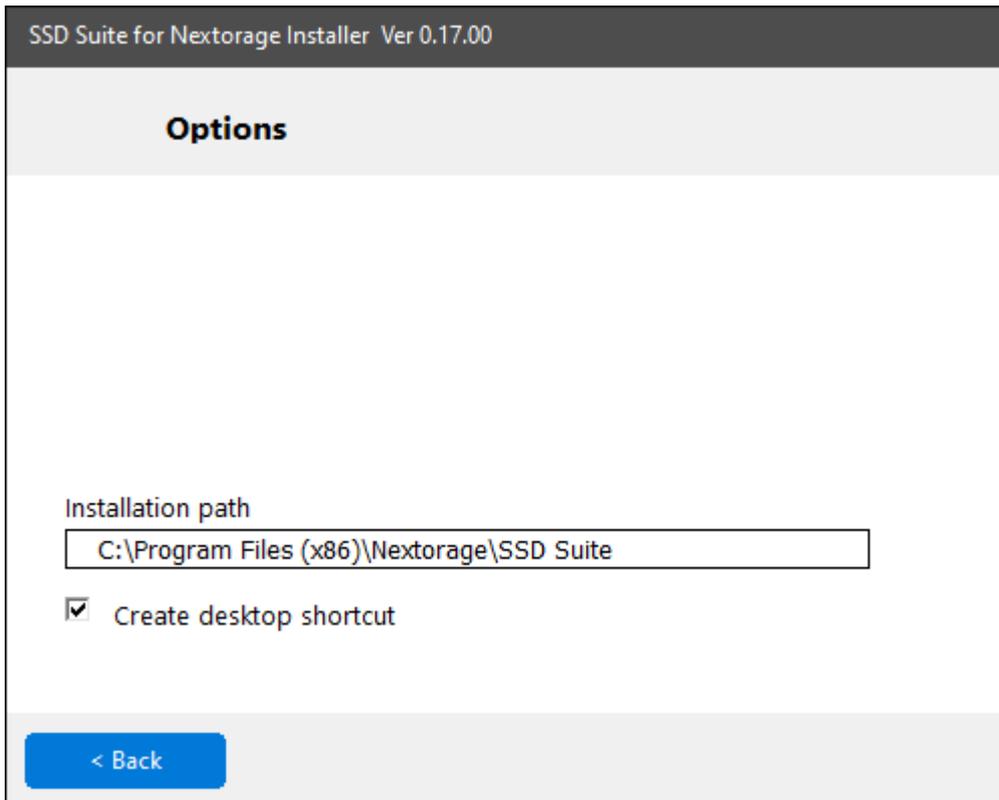
Install SSD Suite for Nextorage

You can download SSD Suite for Nextorage from the official website, unzip the file, and double-click “SsdSuite_Install.exe” to install.



You can select the language you like to see and check the checkbox after you read the Licensing Agreement and accept it.

If you want to know the software installation path and do not want to place the software icon on the desktop, you can click [Option].



It will start to install SSD Suite for Nextorage software after you click the “Install” button.

It may restart your Windows after you install SSD Suite for Nextorage.

Functions

All functions are categorized into sub-screens, including Drive Information, Clone Drive, Secure Erase, Firmware Upgrade, System Information, Updates, and Settings. When you run SSD Suite for Nextorage, the main screen will automatically display drive information first.

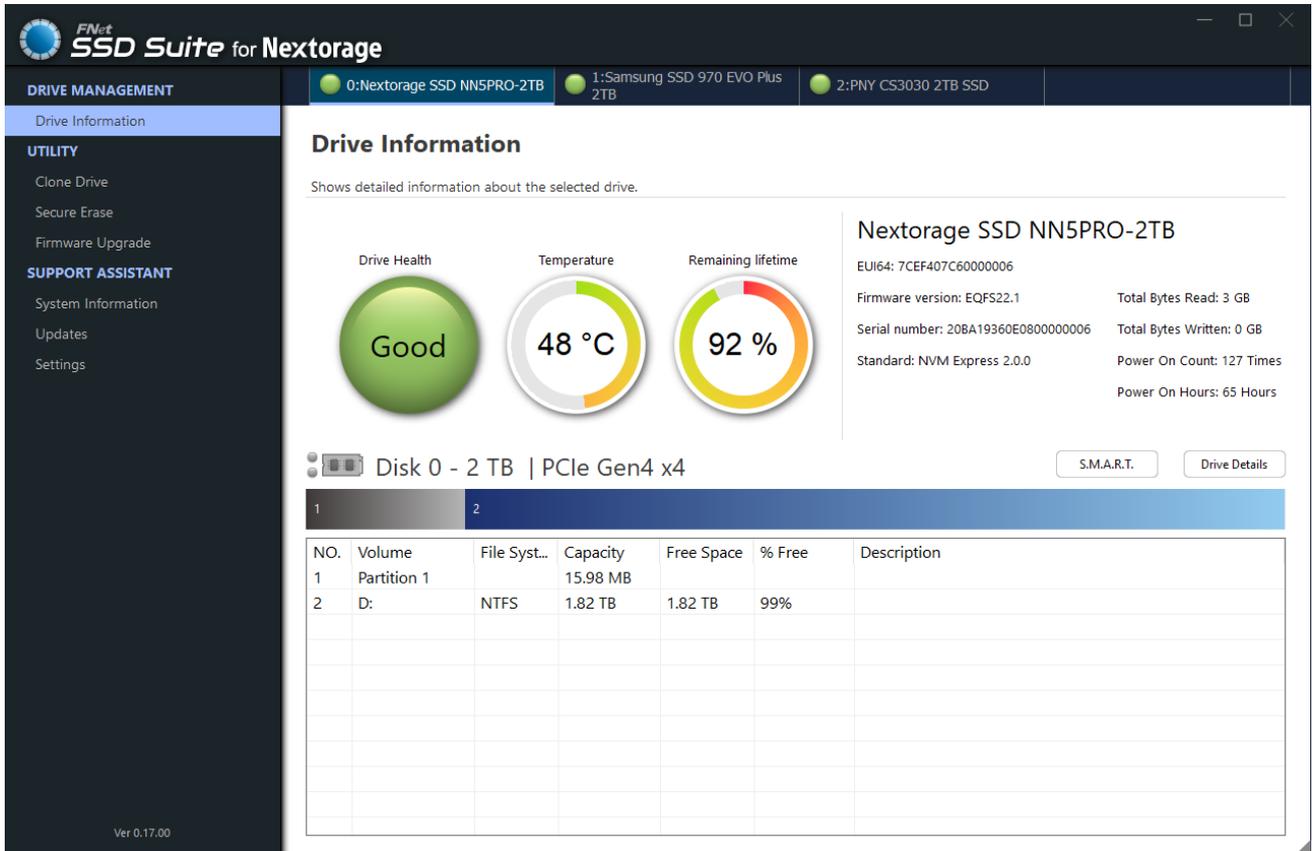
The screenshot displays the 'SSD Suite for Nextorage' application window. The top bar shows three drives: '0:Nextorage SSD NN5PRO-2TB', '1:Samsung SSD 970 EVO Plus 2TB', and '2:PNY CS3030 2TB SSD'. The left sidebar contains sections for 'DRIVE MANAGEMENT' (Drive Information), 'UTILITY' (Clone Drive, Secure Erase, Firmware Upgrade), and 'SUPPORT ASSISTANT' (System Information, Updates, Settings). The main area is titled 'Drive Information' and shows metrics for the selected drive: Drive Health (Good), Temperature (48 °C), and Remaining lifetime (92 %). Detailed specifications for the Nextorage SSD NN5PRO-2TB are listed, including EUI64, Firmware version, Serial number, Standard, Total Bytes Read/Written, Power On Count, and Power On Hours. Below this, a table shows 'Disk 0 - 2 TB | PCIe Gen4 x4' with two partitions: 'Partition 1' (15.98 MB) and 'D:' (1.82 TB, 99% free). Buttons for 'S.M.A.R.T.' and 'Drive Details' are also visible.

NO.	Volume	File Syst...	Capacity	Free Space	% Free	Description
1	Partition 1		15.98 MB			
2	D:	NTFS	1.82 TB	1.82 TB	99%	

Drive Information

Without affecting the overall performance of the computer, SMART data is used to calculate the health of the SSD in real time.

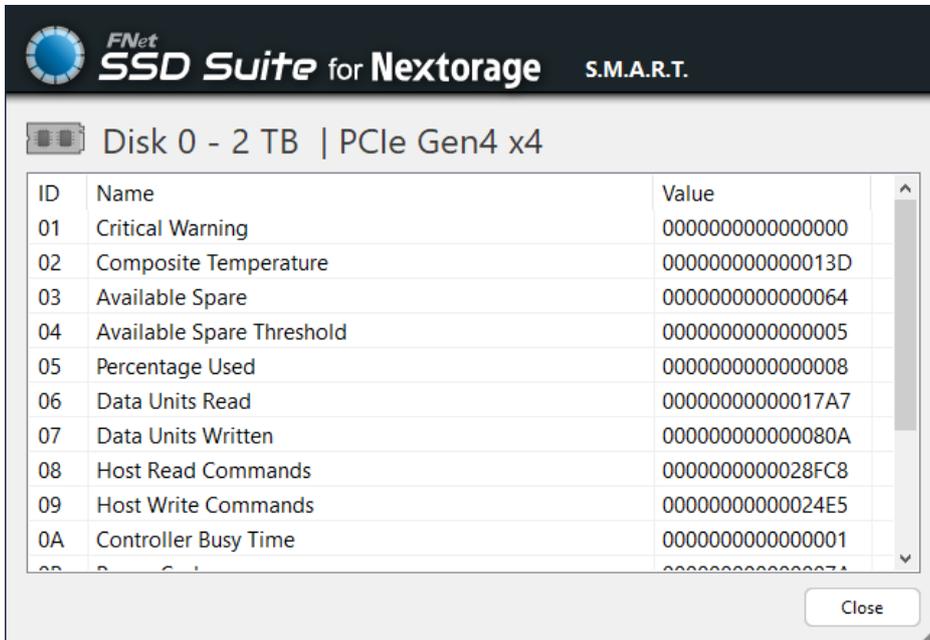
In Drive Information, you can see detailed information about the drive you selected.



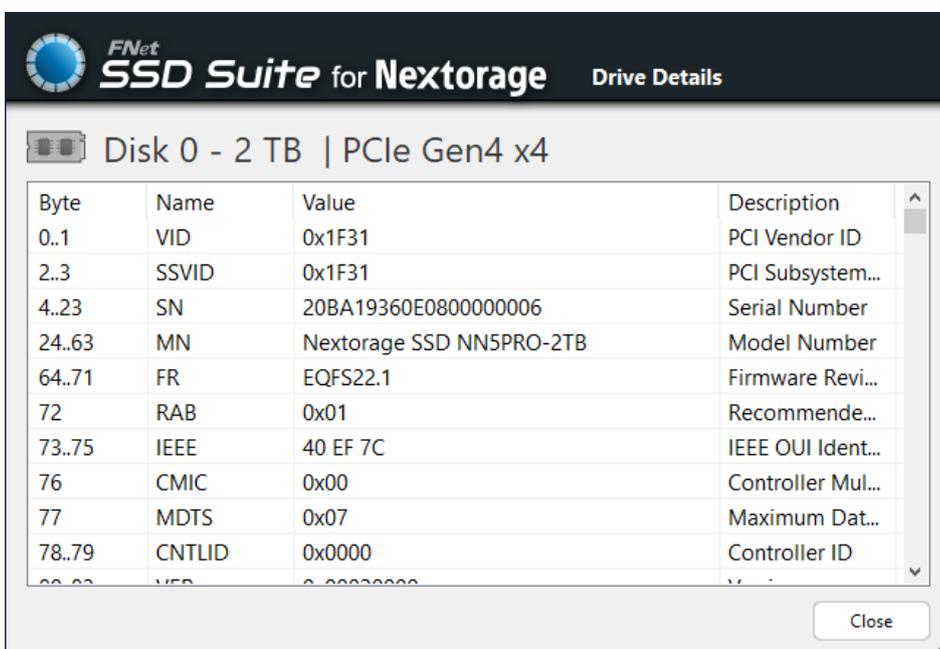
A status icon representing disk health for the selected SSD is displayed on the Main Screen. This feature is only for certain Nextorage SSD Models.

	Good (Green): This indicates that your SSD is in very good condition. All SMART attributes are in good condition.
	Warning (Yellow): This indicates that your SSD is in normal condition. Available Spare Blocks may be used, but it is within the normal range.
	Bad (Red): This indicates that your SSD may need to be replaced with a new one. You should back up all data stored on your SSD to another storage device and replace the drive as soon as possible.
	N/A (Gray): This indicates that health information is not supported or information cannot be loaded for the selected drive.

Click the **SMART** button to reveal the S.M.A.R.T. table, which shows the Self-Monitoring, Analysis, and Reporting Technology attributes on the selected drive. Different brands of SSD may not support all S.M.A.R.T. attributes. For more attributes, refer to the SSD controller specification or link to S.M.A.R.T. attributes at the end of this guide.

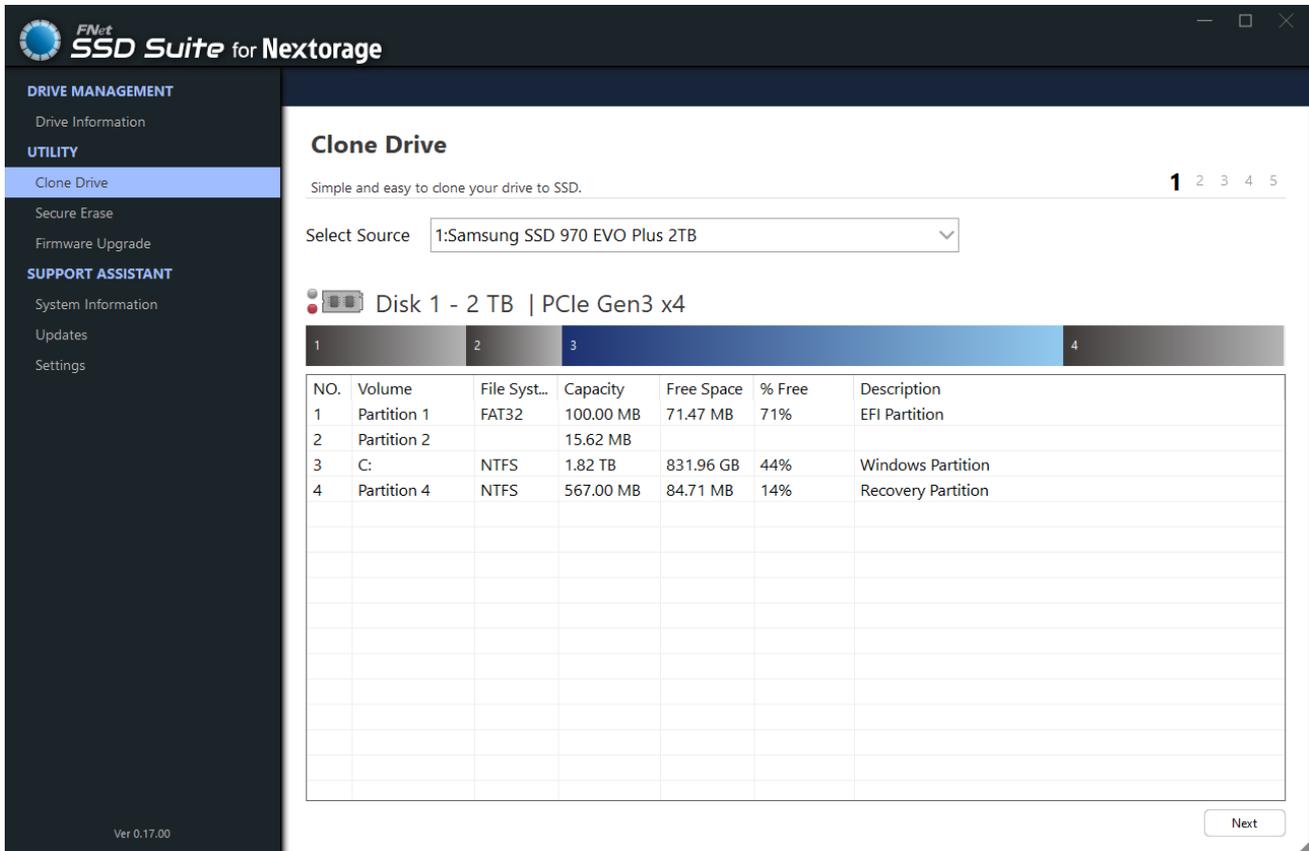


Click the **Drive Details** button to check in-depth technical information about the drive. For detailed information on the terms used, refer to the ATA specification linked at the end of this guide.



Clone Drive

The function could help you easily and quickly clone an OS disk to a new SSD in just 4 steps. (1) Select the source disk. (2) Select the target disk. (3) Select the partitions you want to clone or not. (4) Double-confirm and start clone.



FNet Smart Cloning Technology will automatically adjust the size of the original drive partition to fit smaller or larger replacement drives.

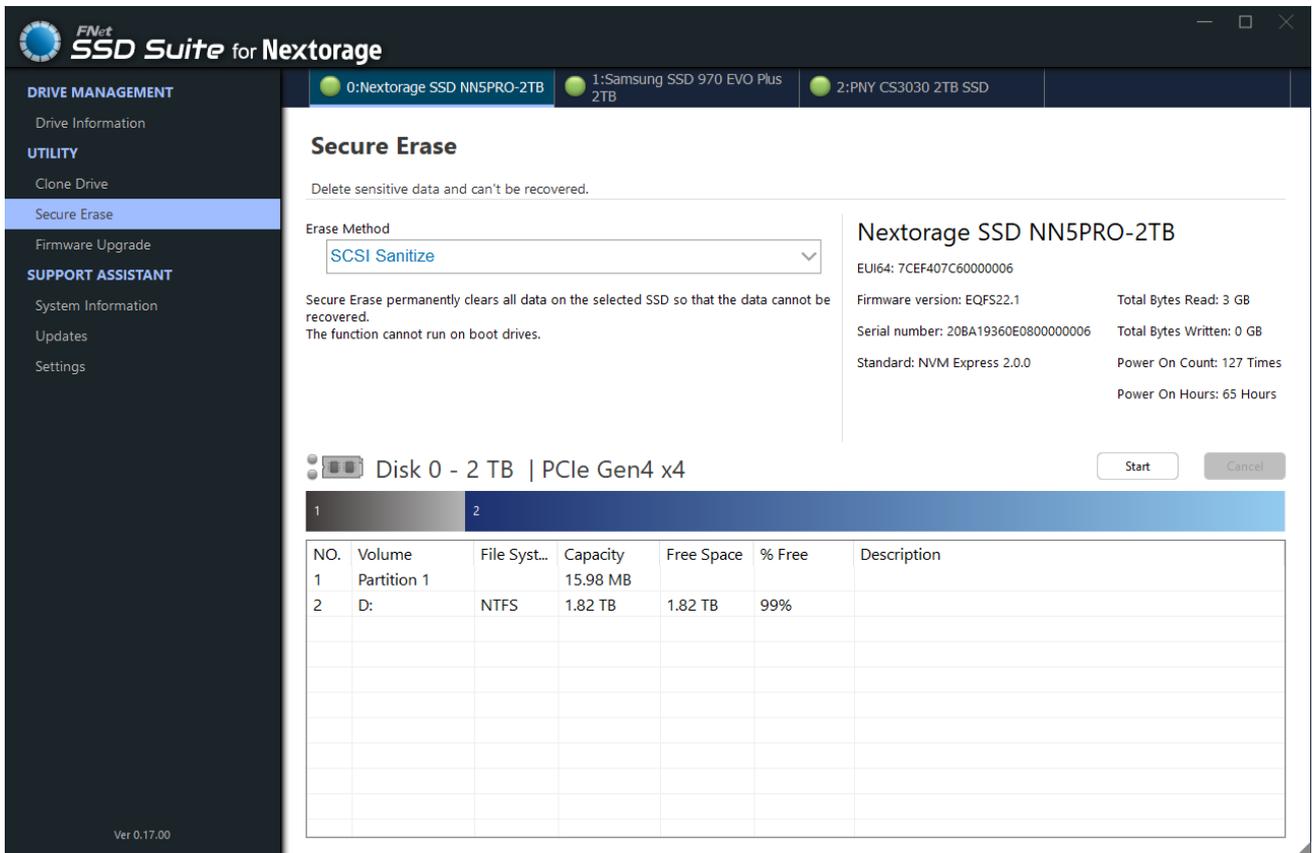
Clone Drive will make a clone of your drive in which you have selected the partitions and folders from being part of the newly cloned drive. An ideal solution for when the target drive is too small for all of the source drive’s data.

Automatic to skip the empty sector and unselected partitions and folders. Automatic 4k alignment. Defragment During Cloning. MBR/GPT format supported.

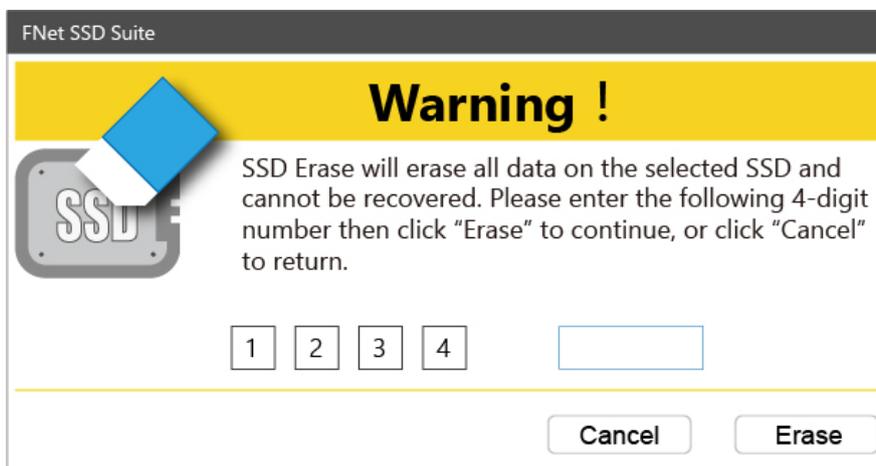
After the cloning process is complete, simply swap out the drives and reboot. Windows will boot up normally from the new drive as if nothing ever happened.

Secure Erase

Secure erase permanently deletes all data on a disk, ensuring that the data is unrecoverable and protects the valuable data on your SSD from leakage.



When you click the "Start" button, it will ask you to double-check. Please enter the same randomly generated number as the one on the left.



Notice

1. Secure Erase cannot run on a boot disk.
2. The entire user space and over-provision space are completely and irretrievably erased after you start Secure Erase. Every block in the user space is ready to accept new host-written data, moving the drive to its highest performance state, FOB (fresh-out-of-box).

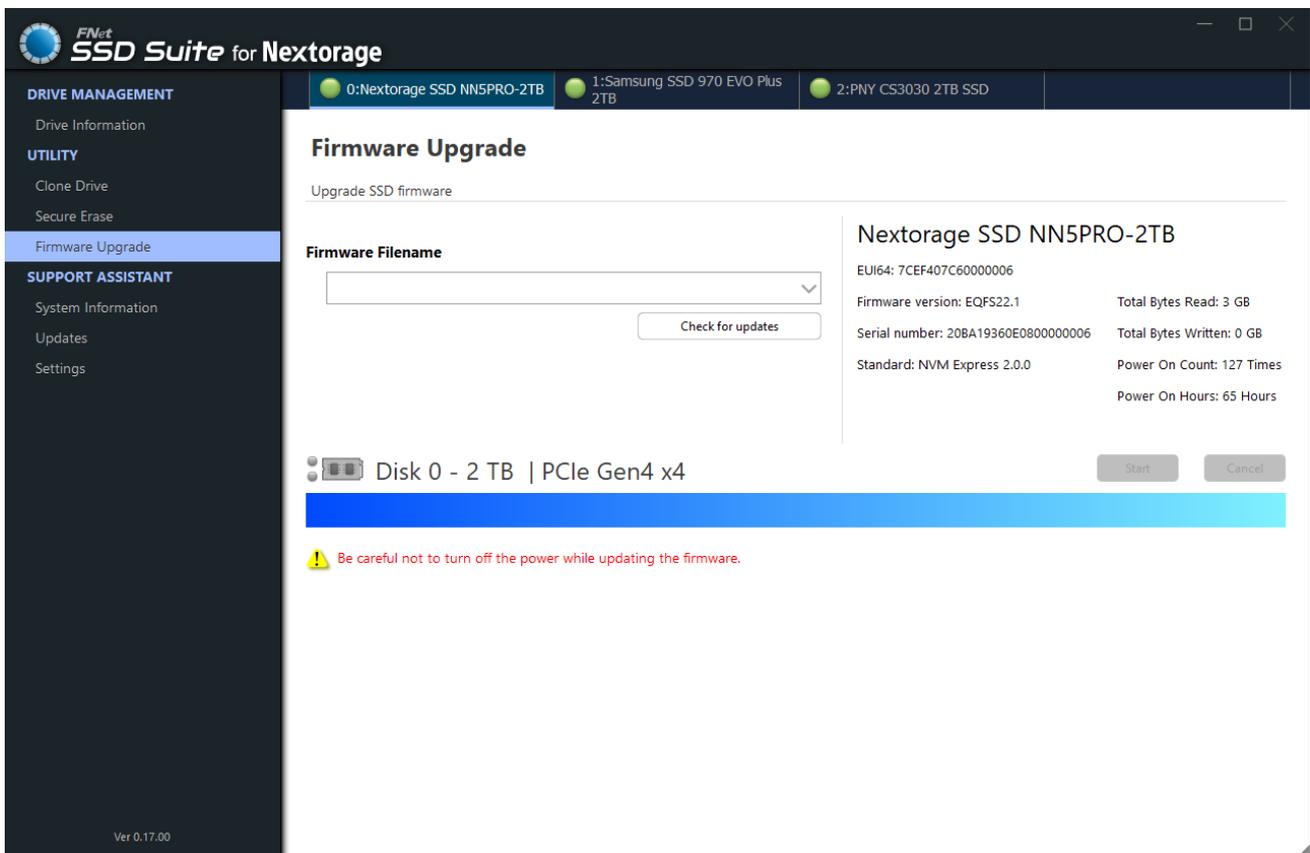
However, some data must be left in place for normal drive operation. This includes the following required data: SSD firmware copies that reside in the NAND, all SMART data, and retired NAND block mapping tables.

Firmware Upgrade

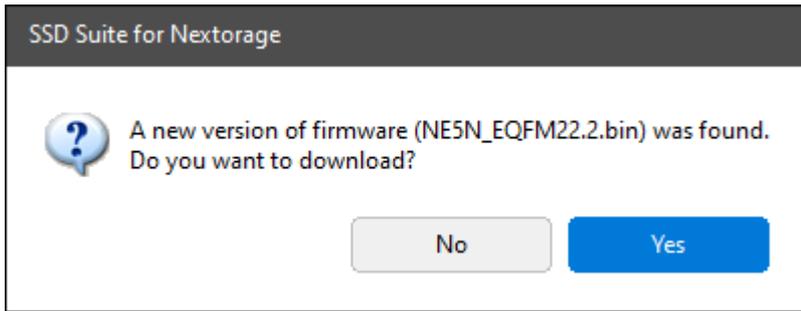
Firmware is a very small software program stored on semiconductor chips such as NAND chips. It contains the software code and commands required to operate the device.

FNet recommends using the latest firmware and SSD Suite for Nextorage software. Regular updates are needed to maintain the latest version of firmware and software and add customer experience improvements, including operational stability and performance optimization.

The SSD Suite for Nextorage software is available for Windows and cannot be used for Linux or Mac OS X.



You can click the [Check for Updates] button. If new firmware for the SSD is available on the system, then the New Version of Firmware message will appear on the firmware update screen.



If you want to download a new version of firmware, please click [Yes].

It will display on the screen that the new firmware has been downloaded. At this time, you can click the [Start] button to start updating the firmware.

Firmware Upgrade

Upgrade SSD firmware

Firmware Filename

NE5N_EQFM22.2.bin

Check for updates

Firmware file NE5N_EQFM22.2.bin selected.
Please click the "Start" button to update the firmware.

Nextorage SSD NN5PRO-2TB

EUI64: 7CEF407C60000006

Firmware version: EQFS22.1

Serial number: 20BA19360E0800000006

Standard: NVM Express 2.0.0

Total Bytes Read: 2 GB

Total Bytes Written: 0 GB

Power On Count: 123 Times

Power On Hours: 42 Hours

Disk 0 - 2 TB | PCIe Gen4 x4

Start Cancel

Be careful not to turn off the power while updating the firmware.

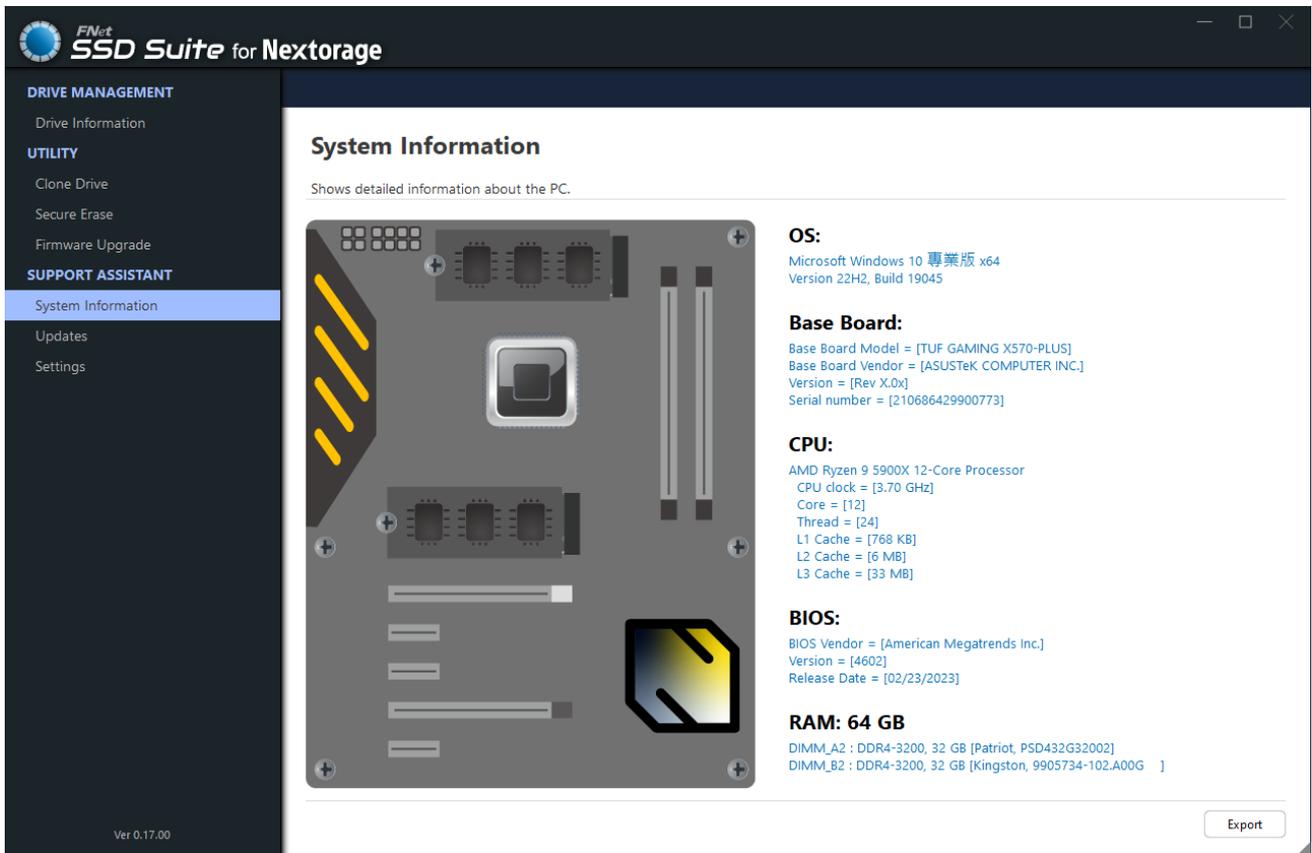
[Warning]

Please back up data and close all running applications (except for SSD Suite for Nextorage software) before updating the firmware.

- Do not turn off power while the firmware is updating.
- Firmware updates cannot be performed on SSDs with RAID mode and Intel VMD enabled.
- A PC reboot is required.
- Firmware updates are not possible through an external USB connection.

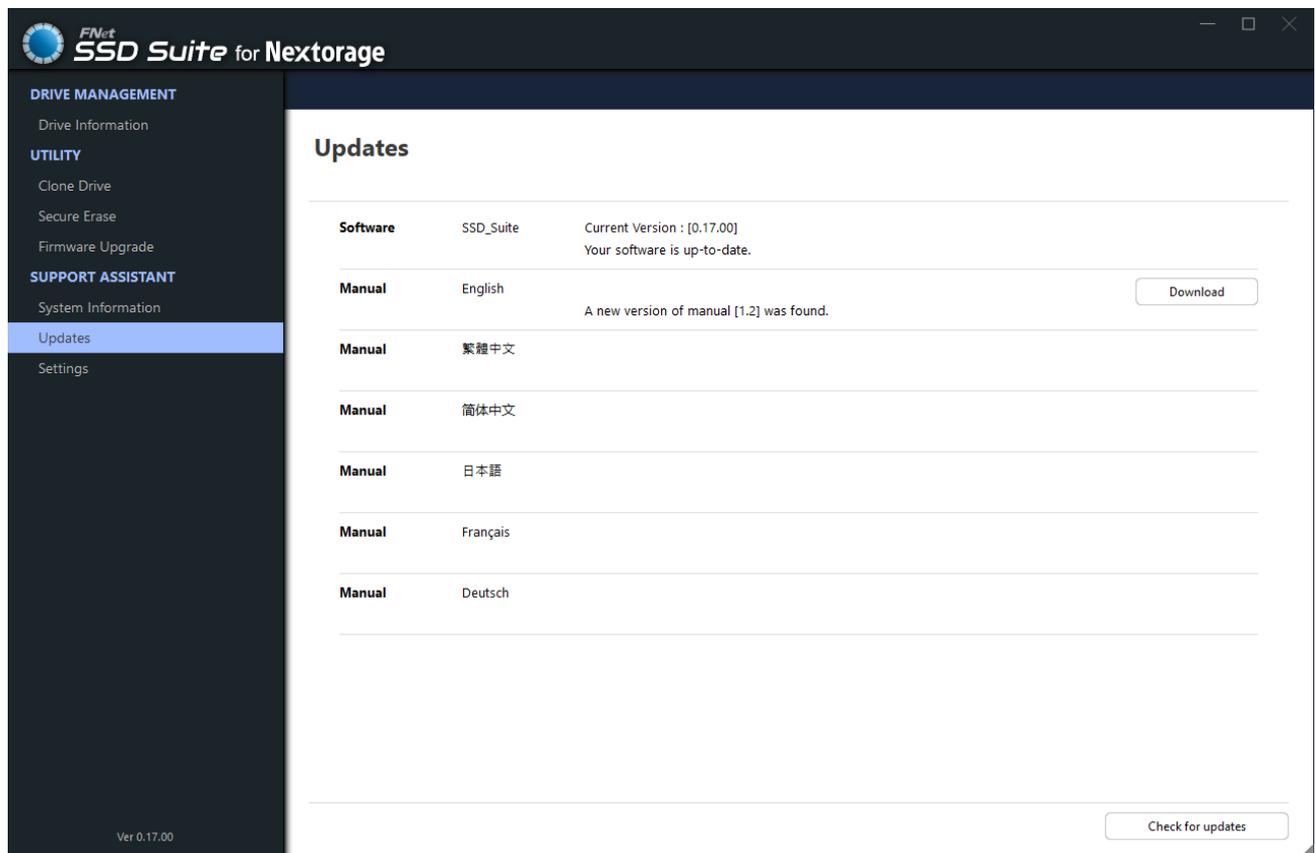
System Information

You can see the basic PC information and it can export the hardware and software information to help with software debugging.



Updates

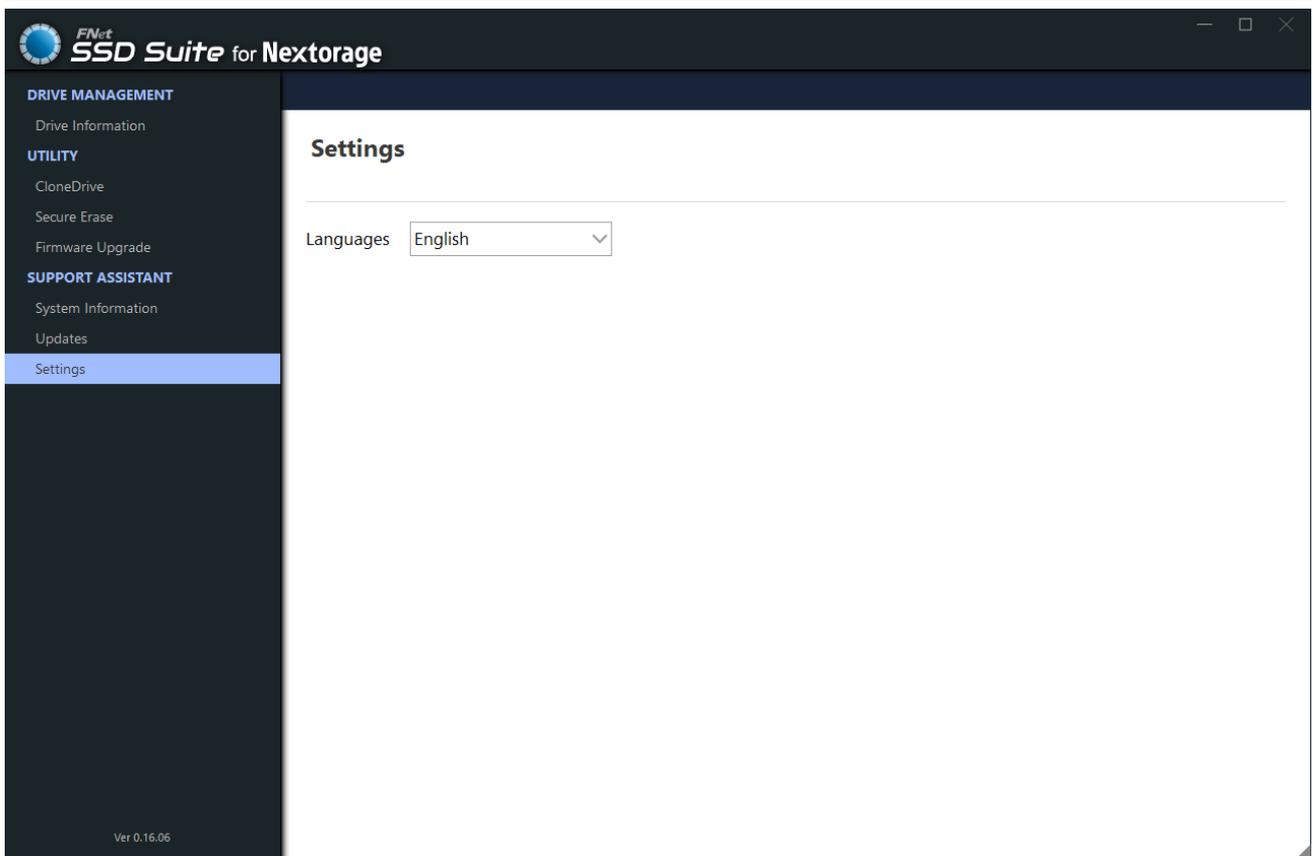
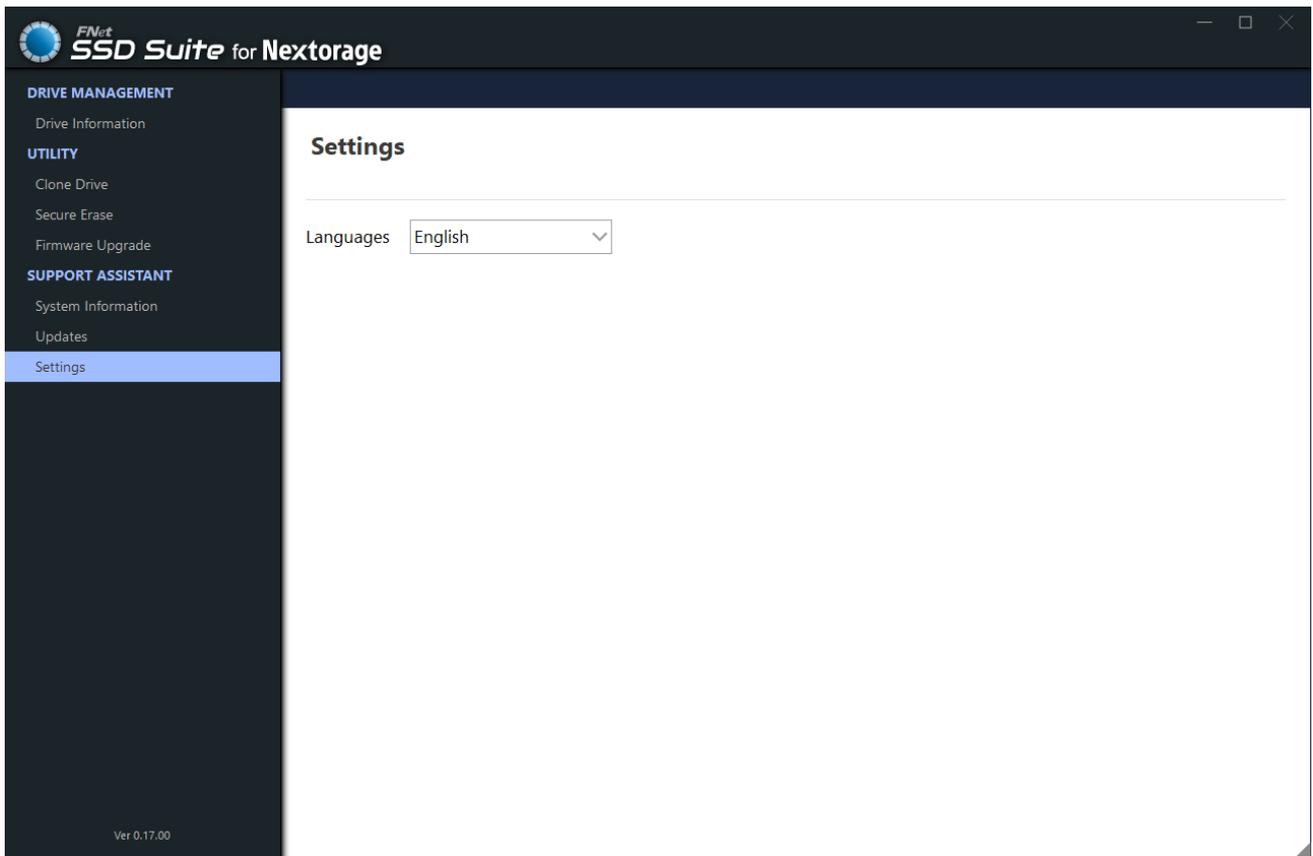
SSD Suite for Nextorage provides the software, and the manual can be updated when the newest version is available.



■ Settings

Languages – SSD Suite for Nextorage provides several languages for UI.

English	Traditional Chinese	Simplify Chinese
Japanese	French	German



References

1	S.M.A.R.T	https://en.wikipedia.org/wiki/S.M.A.R.T.
2	PCI Express	https://en.wikipedia.org/wiki/PCI_Express

Mar. 2024

The design and contents of this manual are subject to change without notice.