



## New Version

**HDShreder 8** expands HDShreder's capabilities across multiple areas, with a special focus on key improvements during its development: **faster sanitization**, **stronger security**, universal **LAN integration**, secure **use over the internet**, and immediate **applicability on ARM and Linux** systems.

The goal was to **expand HDShreder's range of applications**, which is why HDShreder 8, after two years of development and the addition of **25 entirely new features**, stands as a unique product designed to once again meet the evolving needs and requirements of our customers.



## What's New?

**HDShreder 8** adds a variety of innovations that combine efficient use with a wider range of application areas.

This allows you to provide qualified evidence of your service to your clients. HDShreder 8 now automatically generates **audit-proof PDF reports**, which can also be created as **qualified signed PDF/A files**. This makes it easy to provide your clients with qualified proof of your service.

With the **HyperSpeed LAN mode**, sanitization can be performed at full speed, even on slower LANs. Especially when using the Enterprise Editions, it allows for an extremely fast sanitization of a large number of systems or disks over the LAN. To **simplify data transfer**, HDShreder 8 supports **LAN via Thunderbolt**. In particular, this enables **NetDisk to be used directly over a Thunderbolt** connection, offering a peer-to-peer setup as an alternative to a direct LAN connection.

In terms of **security**, focus was placed on multiple aspects. The new **Secure SMB Mode** enables to securely access network drives even on Windows systems, thereby preventing the storage's SMB share from being accessed by other software, especially malware, and even by Windows itself. Network drives can now be used in accordance with the **QUIC standard**, which particularly facilitates **secure network shares in the cloud**. In addition, **FTP and FTPS** are now supported to provide **secure file access over the internet**. This release also features extended network capabilities, including **USB tethering for Android and iOS devices** and enhanced support for **LAN and USB LAN adapters** to ensure broader compatibility, including **improved WLAN support** in HDShreder/L.

With the introduction of the optional **add-on for ARM-based Snapdragon® processors**, support is also provided for the respective notebooks and tablets, including the use of the self-booting variant, HDShreder/S. Furthermore, an optional Linux add-on is available for HDShreder 8 as a **native Linux application** (HDShreder/X). It can be started as an AppImage without further installation of libraries, similar to an EXE file in Windows. Customers who choose both of the add-ons also receive a **Linux AppImage for ARM-based systems**, for example to be used on a Raspberry Pi or any other ARM processor-based system.

**Take advantage now** and discover 25 powerful reasons to choose HDShreder 8 for secure data deletion!

Details on ongoing improvements to HDShreder can be found online in the HDShreder changelog at:

<https://www.miray-software.com/Changelog/HDShreder>



## New Features in Detail

### **HyperSpeed LAN Mode** – Incredibly Fast | 8.0 PE/EE and up

The integrated NetDisk technology now achieves speeds of up to 5 GB/s. In the Enterprise Editions, this speed scales almost linearly, delivering a maximum speed up to 16x 5 GB/s – even in a 1 Gbit LAN.

### **Audit-Proof Sanitization Certificates** | 8.0 PE/EE and up

HDSHredder now creates digitally signed sanitization certificates that can be verified online anytime by clients or auditors. Certificates are now also created per disk, allowing you to use multi-disk sanitization mode on disks from different clients.

### **Digitally Signed PDF/A Certificate** Optional | 8.0 PE and up

With an optional online extension, sanitization certificates can be generated as PDF/A files with a qualified digital signature. This enables clients or auditors to verify the certificate's authenticity directly in Adobe Reader.

### **NIST SP 800-88 Compliance Certificate** | 8.0 PE and up

For every NIST SP 800-88 standard-compliant erasure process, a certificate can be generated in accordance with the standard's requirements. These certificates are of course also audit-proof and can optionally be provided as a signed PDF/A.

### **FTP & FTPS Access**– Fully Integrated | 8.0 PE and up

Save reports and other data directly to an FTP server over the internet, WAN or LAN for easy access at any time. Many routers, NAS with FTP server options and mobile devices with FTP server apps are also supported. You can connect multiple FTP servers simultaneously, which will then be integrated as standard volumes across all HDSHredder apps and are accessible in the Spot File Manager.

### **SMB Network Shares** Auto-detection | 8.0 PE and up

Network shares available in the LAN via the SMB protocol are automatically listed in the Network Storage applet, with support for user authentication. Manual entry of network shares is still possible.

### **SMB with QUIC** – Cloud Network Drives | 8.0 PE and up

The QUIC protocol enables efficient use of SMB network shares over the internet and in the cloud. HDSHredder automatically establishes QUIC connections with the appropriate servers.

### **NetDisk** via Thunderbolt and P2P-LAN | 8.0 PE and up

NetDisk technology, which mirrors disks over the network, now supports Thunderbolt and direct LAN connections. In both cases, configuration is carried out automatically.

### **Save Login Credentials** | 8.0 PE and up

HDSHredder can now remember used network resources (SMB/NAS, FTP, HTTP/HTTPS, and WLAN), along with the associated credentials, if desired. These resources will be readily available when restarting HDSHredder, even when using different program variants (for example, in Windows or self-booting).

### **USB LAN Adapters** – Full Support | 8.0 BE/PE and up

For optimal performance of HDSHredder's network and internet-based functions, a LAN connection is recommended. If you're using one of the bootable variants and a LAN connection is not possible or suitable (for example, for ultrabooks and tablets), a standard USB LAN adapter with Realtek or ASIX chipsets can be used instead.

### **USB Tethering** with Android & iOS/iPadOS | 8.0 BE/PE and up

In the absence of LAN or WLAN, the bootable HDSHredder variants can access WLAN or the internet via USB tethering from a smartphone or tablet. Simply activate USB tethering on the device and use a USB cable to connect it with the system on which HDSHredder is running.

### **Auto Update** – Keep Your Version Current | 8.0 PE and up

Easily update HDSHredder with the newly integrated Auto Update feature. Whether you're using a Windows installation, a portable program directory, or a bootstick, Auto Update will automatically download and install the latest service update for you.

### **HDSHredder/L** with Optional Firmware | 8.0 PE and up

To improve device support in the Linux-based self-booting version of HDSHredder, optional firmware modules that are not available in the Linux kernel can now be automatically downloaded and installed during the creation of the boot medium.

### **Progress Bar** with Speed Graph | 8.0 PE and up

In addition to showing the status of the erasure process, the progress bar now also displays the speed throughout the process in a graph. This makes it easier to distinguish between errors and the natural characteristics of the disks and media in use.

### **Auto Restart** – optional on completion | 8.0 PE and up

As an alternative to automatic shutdown after completion of the deletion process, an automatic restart can now also be selected, for example to start a subsequent deployment process.

### **FlashRefresh App** – New Structure | 8.0 PE and up

The FlashRefresh app now supports "Smart" by only refreshing the occupied areas, thereby significantly reducing the time required. In addition, Trim can now be performed from directly within this app.



## Refined DiskInfo App – NVMe, eMMC, etc. | 8.0 PE and up

The DiskInfo app, intended to display detailed disk information, has been extended to include tabs for NVMe, UFS, PCI and eMMC/SD storage media. Additionally, two new tabs “General” and “Partitions” have been added.

## Mouse Control via Keyboard | 8.0 FE and up

Should there be no mouse available as input device, the bootable versions now include a virtual mouse which can be activated with the key combination CTRL+WIN+M.

## Auto Cleanup & Cleanup Applet | 8.0 FE and up

Auto-generated log files can now be automatically deleted. Simply use the Cleanup applet to quickly and easily remove outdated logs, screenshots, and report files.

## NoExecute Compatibility – More Security | 8.0 FE and up

In its bootable variants, HDShreder now supports the NoExecute CPU feature (Intel: XD, AMD: NX), which prevents data memory areas from being used for code execution. This blocks malicious code from accessing the system, and will therefore become a standard feature on SecureBoot-enabled systems in future.

## CPU-integrated Thunderbolt Controllers | 8.0 FE/PE and up

The boot versions of HDShreder now also support the latest generation of Thunderbolt controllers, in which the controller has been integrated directly into the CPU.

## Improvements to Various Features | 8.0 FE/PE and up

Many features have been notably enhanced and improved upon, e.g.

- auto-restart option upon process completion,
- updated drivers for system and device hardware, especially multi-touch touchpads, LAN adapters, USB, Firewire and
- adaption to changes in file and operating systems.

## Add-ons (Optional) \_\_\_\_\_

### Boot and Run on ARM CPUs | 8.0 PE and up

CPUs with ARM architecture differ fundamentally from Intel and AMD processors. Consequently, it is necessary to program and create entirely separate program files that are specifically tailored to this architecture. By choosing the ARM add-on, users will receive the necessary program files to run HDShreder on ARM-based PCs equipped with Snapdragon® CPUs. This add-on includes the 64-bit EXE file for Windows-on-ARM and a bootable version (HDShreder/S) designed for standard PCs with Snapdragon® CPUs, complete with SecureBoot support. Additionally, when paired with the Linux add-on (see details below), users will also receive an Applmage executable tailored for Linux-on-ARM systems.

### Start HDShreder Directly in Linux | 8.0 PE and up

HDShreder is available as a Windows program (HDShreder/W) and in two bootable versions (HDShreder/S and HDShreder/L). With the optional Linux add-on, users also receive HDShreder/X, an Applmage for Linux on 64-bit Intel/AMD processors. This directly executable file, similar to a Windows EXE, requires no installation on the Linux system and allows users to run HDShreder directly on common Linux distributions, whether live or installed. Additionally, with the ARM add-on (see details above), an Applmage executable is provided for Linux-on-ARM, enabling use on Linux distributions for 64-bit ARM processors.

## Online Features (Optional) \_\_\_\_\_

### Online Slots – Flexible Activation | 8.0 PEP and up

The concept of online slots is similar to a token: each slot allows HD-Shredder to be used consecutively on different systems. When using an online slot, this is completely location-independent. Additionally, an optional waiting queue function is available, enabling HDShreder to automatically wait for the next available slot.

### Remote Access via Browser | 8.0 PE and up

HDShreder can be equipped with a remote access function via a web browser, available across all variants – Windows, self-booting, and Linux. It supports multiple licenses within a single account and requires a fee-based online service extension.



## Feature Matrix

The table below provides an overview of the main features that have been added to HDShreder, along with their availability in the respective editions. Unfilled dots (◻) indicate that, while the feature is available, it cannot be used to its full extent when working with the edition in question. A framed dot (◻) indicates, that the feature can unfold special benefits in this edition. A gray dot (◼) indicates an optional feature.

Ver.	New Features in HDShreder 8	FE	BE	SE	PE	EE
8.0	<b>HyperSpeed LAN Mode</b> – Wipe Incredibly Fast via LAN				◼	◻
8.0	<b>Audit-Proof Sanitization Certificates</b>				◼	◼
8.0	<small>[optional]</small> <b>Digitally Signed PDF/A Certificate</b>				◼	◼
8.0	<b>NIST SP 800-88 Compliant Certificate</b>				◼	◼
8.0	<b>FTP &amp; FTPS Access</b> – Fully Integrated				◼	◼
8.0	<b>SMB Network Shares</b> Auto-detection				◼	◼
8.0	<b>SMB with QUIC</b> – Cloud Network Drives				◼	◼
8.0	<b>NetDisk</b> via Thunderbolt and P2P-LAN				◼	◼
8.0	<b>Save Login Credentials</b>				◼	◼
8.0	<b>USB LAN Adapters</b> – Full Support		◻	◻	◼	◼
8.0	<b>USB Tethering</b> with Android		◻	◻	◼	◼
8.0	<b>Auto Update</b> – Keep Your Version Current	◻	◼	◼	◼	◼
8.0	<b>HDShreder/L</b> with Optional Firmware				◼	◼
8.0	<b>Progress Bar</b> with Speed Graph				◼	◼
8.0	<b>Auto Restart</b> – optional on completion				◼	◼
8.0	<b>FlashRefresh App</b> – New Structure				◼	◼
8.0	<b>Refined DiskInfo App</b> – NVMe, eMMC, etc.				◼	◼
8.0	<b>Mouse Control via Keyboard</b>	◼	◼	◼	◼	◼
8.0	<b>Auto-Cleanup &amp; Cleanup-Applet</b>	◻	◻	◻	◼	◼
8.0	<b>NoExecute Compatibility</b> – More Security	◼	◼	◼	◼	◼
8.0	<b>CPU-integrated Thunderbolt Controllers</b>	◻	◻	◻	◼	◼
8.0	<b>Improvements to Various Features</b>	◻	◻	◻	◼	◼
8.0	<small>[optional]</small> <b>ARM add-on:</b> Boot and Run on ARM CPUs				◼	◼
8.0	<small>[optional]</small> <b>Linux add-on:</b> Start HDShreder Directly in Linux				◼	◼
8.0	<small>[optional]</small> <b>Online Slots</b> – Flexible Activation				◼	◼
8.0	<small>[optional]</small> <b>Remote Access</b> via Browser				◼	◼