

# KMSnano V25 by Heldigard

*Important: If you like Microsoft Windows and Microsoft Office I recommend that you buy legal and original versions. This program is only provided to help you test these products. Ja mata ne, Farewell, Hejdå, Ciao, Aloha, Zegnaj, Doei*

KMSnano is a portable Key Management Service (KMS) Host for Windows (client) 6.0, 6.1, and 6.2, and for Office 14 and 15. It uses a virtual machine that runs within Windows and activates Volume License versions of Windows (client) and Office for 180 days.

It can be used to Activate Windows Vista/7/8 Pro/Enterprise/N/VL and Office 2010/2013 Retail/VL. Note that the program also activate Visio and Project 2013.

Program is based off of Ratiborus's KMSmicro v3.10.

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This document applies to the following KMSnano releases:

- KMSnano Setup,
- KMSnano Portable,
- KMSnano Repack

## KMSnano Setup Version

### Installing KMSnano

Starting with Version 21 and above the KMSnano is distributed with an installer / uninstaller. To install the KMSnano program run `KMSnano_install_vxx.exe`.

The setup creates a directory called KMSnano in the system file with all the required file. Beware that the `KMSELDI.exe` and `TriggerKMS.exe` file in this directory has the Hidden and System attributes set and therefore is normally not visible. The setup programs also adds several links, describe after, in the KMSnano start menu.

At the end of the setup you are offered the option to "Create a Task Schedule". If you check this option the **TriggerKMS** program is automatically called with the following parameters:

```
TriggerKMS 31 Kmsnano.exe /install /battery
```

This will start the activation process if necessary (if the grace period is less than 31 days) as well as add an entry to the Task Scheduler (see [TriggerKMS Usage & FAQ](#) section).



### Standard Usage

Use the following links created in the KMSnano start menu:

- **Check:** Displays the activation status in a window.
- **KMSnano:** Starts KMSELDI with the right parameters in order to activate products.
- **Log:** Displays the KMSnano log file in a command prompt window.
- **Uninstall KMSnano:** Uninstall KMSnano from system.

Therefore, after installing the program, a typical usage scenario is the following:

- Start the KMSnano program using the **KMSnano link** in the start menu and wait for activation process to finish. This activates or re-activate Windows and/or all Office products for 180 days.
- Check that products have been correctly activated using the **Check link**.

Notes:

- A log file, named *KmsNano.log*, is written in the installation directory during activation. It is possible to look at its content by using the **Log link** in the KMSnano start menu.
- A directory, called **TokensBackup\_<date>**, is created in the installation directory and a backup of the activation tokens before is placed inside. This allow you to restore the state of the activation in case KMSnano breaks something.
- Beware that the activation process can sometimes take a lot of times, especially when Retail to Volume conversions are involved. By default the program plays sounds to indicate completion of the different phases of the activation process.

My advices:

- Although the program can be used to activate Windows Vista and 7, I do not see any good reason to do so. The Loader from DAZ does a much better job using SLIC and activate any Windows 7 / Vista version permanently.
- The program can be used to activate Retail version of Windows and/or Office. In that case the Retail version is first converted to a Volume version. But beware that this process is slow and sometimes prone to problems with specific foreign languages. It is therefore recommended to use Volume versions of Windows and/or Office whenever possible.

## Custom Usage

Should you run into trouble or if you want to have more control over the activation process you can directly use the scripts provided in the installation directory.

From the installation directory you can run any of the following scripts in administrator mode:

- The “**silent.cmd**” script is similar to the KMSnano link and result in the same execution.
- The “**manual.cmd**” script displays the KMS GUI ELDI windows. You have to specify the IP address (in the range 127.0.0.1 to 127.0.0.3), select what you want to activate from the GUI (non-installed product are greyed) and click the big red button to start activation. For more information refer to the [KMS GUI ELDI Usage & FAQ](#) section.
- **Check.cmd** is used to check activation
- You can edit any of the script file to change or add parameters to the execution of the KMSELDI program. KMSELDI parameters are detailed in the [KMS GUI ELDI Usage & FAQ](#) section. For example you can add the **/noWin** parameter to bypass Windows activation.
- You can also run manually the different components. For example you can execute the “**00-Start\_Qemu\_Manual.cmd**” script to start the KMS server and allow QEMU to communicate over the network. Then you can start the **KMSELDI.exe** program to activate Windows and/or Office against the KMS server. In the ELDI GUI enter the IP address 127.0.0.1 and port 1688, select the components you want to activate and click the big red button. At the end of the activation the ELDI GUI will close and you will have to close the QEMU emulator window.

For more information about the usage and parameters of **KMSELDI.exe** program see the [KMS GUI ELDI Usage & FAQ section](#).

## Permanent Activation

If you want to automatically re-activate Windows and/or Office you can run the “**Run Trigger.cmd**” or use the **TriggerKMS.exe** program detailed in the [TriggerKMS Usage & FAQ](#) section. For example you can type the following line in an administrative command prompt:

```
TriggerKMS 31 VerySilent.cmd /install
```

This adds an entry in the Task Scheduler so that each time the user login the **TriggerKMS** program checks if the grace period falls below 30 days and if that the case the VerySilent.cmd script is started to re-activate Windows and/or Office for 180 days.

## KMSnano Portable Version

This version is distributed as one file: KMSnano.exe. Running this program decompress the archive in the %temp% directory and performs all required actions to activate the Windows/Office products. As the KMSELDI program is stated in silent mode without any parameters, the process is very silent: No log file, no backup, no sound ...

This version is very easy to use but it offers no control over the process and it does not provide any checking capability.

## KMSnano Repack Version

As the name indicates this version is just a repackaging of the KMSnano setup version and therefore all credits goes to Heldigard. I have created this version to get the exact customization that I wanted from the KMSnano.

This version is portable so you do not need to setup anything. To use it just decompress the archive any place you want and start the **KMSnano.cmd** script in the **KMSnanoRepackXX** directory.

The KMSnano script look like this:

```

Administrateur : Heldigard's KMSnano Activator by DCZ
*****
** Customized Script for Heldigard's KMSnano Activator U25 by DCZ **
*****
C) Check activation status of Windows/Office Products
A) Activation of Windows/Office Products for 180 days
R) Reactivate Products if grace period less than 31 days
D) Display activation log file
I) Install auto-reactivation in Task Scheduler
U) Uninstall auto-reactivation fom Task Scheduler

F) Fix Hactivations
W) Windows Up/Down
H) Help on usage

X) Exit
> Your Selection:
  
```

- The **check activation** command displays the activation status in a separate window.
- The **activation** command is similar to calling the silent.cmd script. It will silently activate or reactivate the Windows/Office products for 180 days. A log file, and a backup of the tokens are created. The process play *customized* sounds to indicate completion of the different phases of the activation process.
- The **reactivate** command activates or reactivates the Windows/Office products if the grace period falls below 31 days.
- The **Display** command displays the log file created during the activation process.
- The **install** auto-reactivation command creates an entry in the Task Scheduler that will check if reactivation of the products is needed each time the user logon. Note that contrary to the *TriggerKMS* program this command **just** install an entry in the Task Scheduler but **never** starts the activation process.
- **Uninstall** auto-reactivation command removes the auto-activation entry from the Task Scheduler.
- **Fix Hactivation** command is just a script to check validity of Windows system files.
- **Windows UP/Down** calls the UpDown program. This program allow you to change the Windows version. For example change a Windows 8 Core version to a Professional version.
- Help command displays a short help on script usage.

For your information this version has been created using an untouched version of the KMSnano installation directory (from the KMSnano setup version) with just an added **KMSnano.cmd** script and modified sounds.

For more information about the other scripts provided please refer to [Custom Usage](#) in the [KMSnano Setup Version](#) section.

## KMSnano FAQ

- **Q: Does it needs Internet Connection?**  
A: No, It works with the local time and date.
- **Q: Will it broke my Retail activation of Windows or Office?**  
A: No, as soon the application detect the RETAIL flag in Windows 7/8 and/or Office 2010/2013 it will skip the process.
- **Q: Will it work on a Windows or Office with the Grace Time expired?**  
A: Yes.
- **Q: How much RAM memory I need?**  
A: It has a method of RAM detections of the machine and divide that amount by 2 and use that amount, if you have problem with allocation of memory, the unzip the KMSnano.exe modified the 00-Start\_Qemu.cmd, change the amount of memory and when run successful the Qemu, use the Manual.cmd script.
- **Q: What KMSnano program really does?**  
A: Good question:
  0. Run Qemu.
  1. Detect Windows 7/8 Enterprise/Pro/N version's type. Automatically convert non activated Windows Retail version to Volume.
  2. Detect Office 2013/2010 version's type. Automatically convert non activated supported Office Retail versions to Volume.
  3. Set KMS server address to the registry.
  4. Try to activate using slmgr.vbs and/or ospp.vbs (simultaneous requests with new KMS Client). Automatically skip permanently activated Windows Retail versions and automatically skip permanently activated Retail Office versions.
  5. Check errors, take necessary corrective actions, and retry activation several times.
  6. Clear KMS server address.
  7. Close Qemu.
- **Q: How to schedule auto-re-activation?**  
A: You can trigger auto-activation by using /install option of TriggerKMS (see [TriggerKMS Usage & FAQ](#) section)
- **Q: What are the requirements to run programs**  
A: You either need to be running on Windows 8 or you need to have the **.Net Framework 4.0** installed
- **Q: Determining Which Version of the .NET Framework Is Installed**  
A: To see which versions are installed, view the %WINDIR%\Microsoft.NET\Framework directory. You should also view the Framework64 directory on a 64-bit computer.
- **Q: Why every day a new version come out?**  
A: Because people report bugs of special cases, mostly no fresh installs of Windows. Other times people make good suggestions. Other times just improvements.
- **Q: Any Recommendations?**
  - [Disable smart screen](#).
  - Make exceptions to KMSnano.exe in Antivirus.

## KMSnano Recent Change log

- V25
  - Fixed reported bugs on v24 with Retail Editions and Skipped Windows.
- V24
  - Setup Encrypted (because there is fakes KMSnano in the net)
  - Runs unzipped.
  - Possible work with Vista and XP (beta)
- V23
  - **Fake version released on Internet do not use**
- V22.1
  - Fixed autocharged.
  - Fixed minor bugs with O2010.
  - Faster.
- V22
  - Fixed known bugs.
- V21
  - Install and Uninstall version.
- V20.1
  - Fixed bug with permanent activated windows.
  - Improved detection of Retail version.
  - Add UpDown8 v1.3.exe for Evaluation Trial Windows 8 Enterprise.
- V20
  - Fixed bug with Retail Visio 2013.
  - Add /music and /backup arguments to KMSELDI v12
  - Improved Retail conversion.
- V19.1
  - Complete support for Office2013 in W7.
- V19
  - Faster conversion from Retail to VL.
  - Avoid OEM Windows's editions.
- V18
  - Code Remaked looking fix logical bugs.
- V17
  - Faster Activation.
  - Detect Windows 8 - 90 Day Trial Evaluation Edition.
  - In Windows 8 Evaluation automatic delete the key for unlimited evaluation period.
  - Minor code improved.
- V16.1
  - Fixed activation of Office 2013 in Non Entr/Pro Windows.
  - Smart detection of Qemu running for allocation memory error.
  - Add TriggerKMS v9.1
- V16
  - Detect Office 2013 in W7.
  - Fixed Conversion from Retail Office 2013 to Volume License.
  - Add TriggerKMS v9.
- V15.1
  - Detect Office 2013 Grace Edition.
  - Fixed bug when Firewall service is off.
  - Add TriggerKMS v8.
- V15
  - Optimized for W7 and Office 2010 with KMSELDI v8.

## KMSnano Documentation

- Automatic convert non activated support Windows versions to VL.
- Automatic skip permanent activated Windows versions.
- Automatic convert non activated support Office versions to VL.
- Automatic skip permanent activated Office versions.
- New KMS Client with simultaneous request.
- Add TriggerKMS v7: Support W7 and Office 2010.
- Clear KMS server name after installation.
- V14
  - Faster for Windows 8 and Office 2013 in Windows 8 with KMSELDI v7
  - New KMS Client
  - Faster Auto Charging in Qemu.
  - Add TriggerKMS v5.1
- V13
  - Lot of Code remake in KMSELDI v6
  - Add TriggerKMS v2
- V12.1
  - Fixed known bugs at this moment
  - Add /noWin, /no2010 and /no2013 arguments to KMSELDI.exe (run KMSELDI.exe /? for help)

## TriggerKMS Usage & FAQ

TriggerKMS.exe checks the remaining grace days in Windows 7/8 and/or Office 2010/2013 and run KMSnano (or any other activator specified) if this value drop below a specified threshold.

### The TriggerKMS syntax:

```
TriggerKMS.exe [minDays Activator [/install [/battery]]] [/log] [/pause]
```

Where [arg] notation denote an optional argument that should be typed as arg

Arguments description:

- The **minDays** and **Activator** arguments must be specified together. If remaining days of Windows and/or Office grace period falls below **minDays** the **Activator** program is run. Typically Activator argument is set to verysilent.cmd.
- **/install** adds an entry to the Task Scheduler. This option must always be specified along with the **minDays** and **Activator** arguments as these values are recorded in the Task Scheduler entry. Each time a new user's session is started (logon) the **TriggerKMS.exe** is run with the specified **minDays** and **Activator** arguments. To uninstall you must delete the TriggerKMS entry in the Task Scheduler this can be done using the **Uninstall Trigger.cmd** script. Once this entry has been added to the Task Scheduler the directory that contains TriggerKMS.exe and KMSnano.exe should not be moved because the path is recorded in the entry. Using this option allows to **auto-re-activate** Windows and Office products when the grace period drop below the **minDays** value.
- **/battery** is used to **remove** (although should probably be the opposite) the power supply condition that tells the task to run only if the computer is AC powered when the user's session is started.
- **/pause** will open a Window that displays activation information about Windows and all Office products installed. This option can be used alone.
- **/log** store execution information in **%temp%/TriggerKMS.log** file. This option can be used alone to store the product activation information.

Note: The **/battery** option is **counterintuitive**. If you do not specify this option the TriggerKMS program is executed only if the computer is not running on battery. If you specify the option the TriggerKMS program is always executed! I recommend not to use this option 😊

### Typical usage:

```
TriggerKMS 20 verysilent.cmd /log
```

Run verysilent.cmd if grace period is less than 20 days write results in log file.

```
TriggerKMS 30 verysilent.cmd /install
```

Run verysilent.cmd if grace period is less than 30 days. This will also add an entry in the Task Scheduler so that each time the user login the **TriggerKMS** program will check if the grace period falls below 30 days. In which case the verysilent.cmd script will be started to re-activate Windows and/or Office for 180 days.

```
TriggerKMS /pause
```

Display activation information about Windows and all Office products.

### Permanent re-activation

As explained above the **/install** option of the TriggerKMS program adds an entry in the Task Scheduler which is executed each time the user logon to the system. Using the command:

```
TriggerKMS 30 verysilent.cmd /install
```

Will start the TriggerKMS program at each logon that checks that at least 30 days of grace period remains for KMS activated Windows & Office products. When the grace period falls below the specified 30 days the TriggerKMS program will execute verysilent.cmd to reactivate Windows and Office products for 180 days. To uninstall use the **Uninstall Trigger.cmd** script.



## KMS GUI ELDI Usage & FAQ

This is a tool that automates activation against any KMS host.

### The KMSELDI syntax:

```
KMSELDI [/qemu] [/silent] [/wretail] [/log] [noWin] [/no2013] [/no2010] [/backup]
[/music] [/?]
```

Where **[arg]** notation denote an optional argument that should be typed as **arg**

Line arguments description:

- **/qemu**: Run qemu-system-i386.exe
- **/silent**: Run in Silent mode
- **/wretail**: Convert Retail Windows 8 to VL
- **/log**: Create a log in the current directory
- **/noWin**: Skip Windows activation
- **/no2013**: Skip Office 2013 activation
- **/no2010**: Skip Office 2010 activation
- **/backup**: Takes a backup of activation tokens and save them in TokenBackup\_<date>
- **/music**: play sounds at completion of KMSELDI different phases of the process.
- **/?**: Display help information in a window.

### The KMSELDI GUI

You first need to fill:

- IP: enter here the IP of the KMS server, or
- Name: the name of the server
- Port: Port to use on the KMS server
- Windows: check if you want to activate
- Office 2013: check if you want to activate
- Office 2010: check if you want to activate

The status window at the bottom display information from the programs spawned by KMSELDI.

At startup the program detects the products that can be activated and non-present feature are greyed. For example this picture shows that Office 2010 is not installed and therefore it is not possible to check this option for activation.

Once you have specified the parameters you must push the red EL button to start the activation process. This will start the QEMU emulator and activates the products against the KMS server specified in the IP/Port entries.

