



License Trouble shooting

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1. Installation

1.1 System Requirements

Midas Programs operate on IBM compatible Personal Computer(PC) in the Windows environment. In addition, Midas programs require the following **minimum** configuration :

System requirements	
Operating System	<ul style="list-style-type: none"> - Microsoft Windows 2000 / XP / VISTA / Windows 7 - MS Internet Explorer Version 6.0 or later version <p>* Warning : In Windows Vista Operating System, program compatibility issue occurs in some functionality.</p>
CPU	Pentium IV or better performing PC processor (Pentium IV 3 GHz or greater recommended)
Memory (RAM)	1 GB (2 GB or greater recommended)
HDD Space	5 GB (30 GB or greater recommended)
Video Memory	128 MB or greater
Video Card	GeForce NVIDIA type video card recommended (On-board video card is not recommended.)

1.2 System Recommendations

In general, the better system will make analysis and software performances smoother and faster. (Higher memory Ram, local drive storage, etc.)

There are system recommendations :

System Recommendations	
Operating System	<ul style="list-style-type: none"> - 64 bit operating system - If a system can handle GPU, that is even better. <p>http://en.midasuser.com/aboutus/news_read.asp?id=211742&pg=1&sk=&so=&sort=&bid=74&nCat=/</p>
HDD Type	SSD (Solid State Drive)
Graphic Card	NVIDIA G-Force Line Graphic card

1.3 Installation Guide

1.3.1 Civil

1.3.1.1 Installation

Before an Installation, please acquire an **administrator right**. If not, an installation couldn't be finished properly.

1. Create ID&P.W

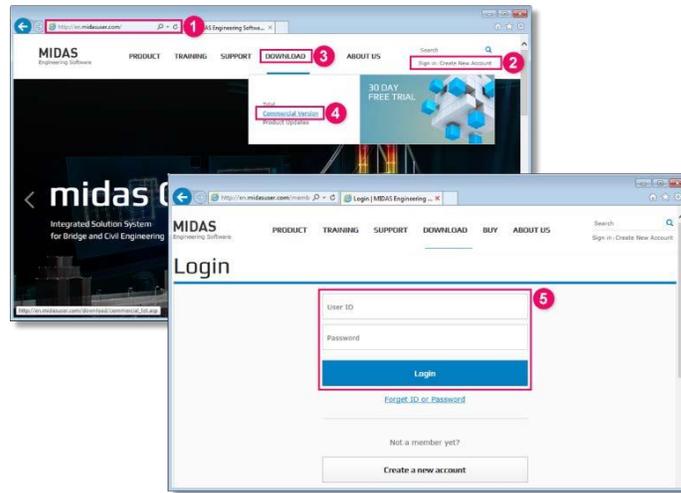


Figure 1 Civil install 1

1. Go to [<http://en.midasuser.com>]
2. Click [New Account and Create ID / Password]
(If you are already a MUSS user, you don't need to create new account)
3. Go to [Download] on the top menu
4. Click [Commercial Version]
5. Log in with your Muss ID & Password

2. Download Install Files

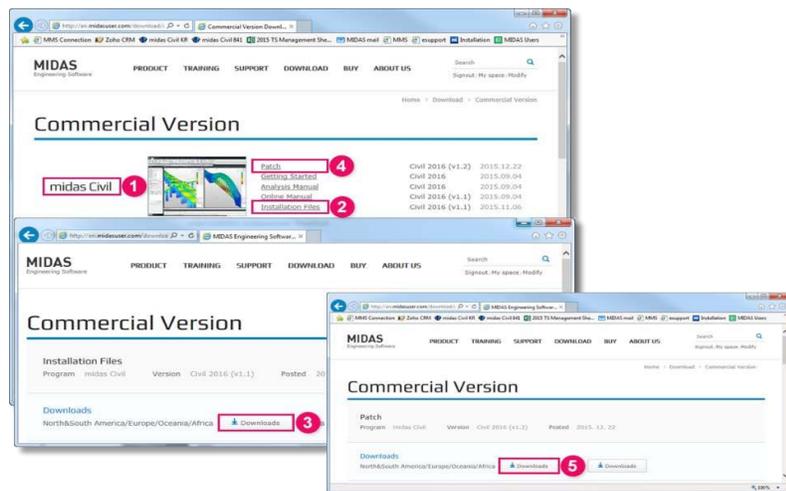


Figure 2 Civil Install 2

1. Find the midas Civil section
2. Click [Installation Files]
3. Click [Downloads]
4. Go back to the previous page and click [Patch]

(If there are available patches, please install that. However, It's available depends on what version you have at the moment. Also, If you want to know how to apply a patch, go to 1.3.1.2 [\(Click\)](#))

5. Click [Downloads]

3. Download the install files

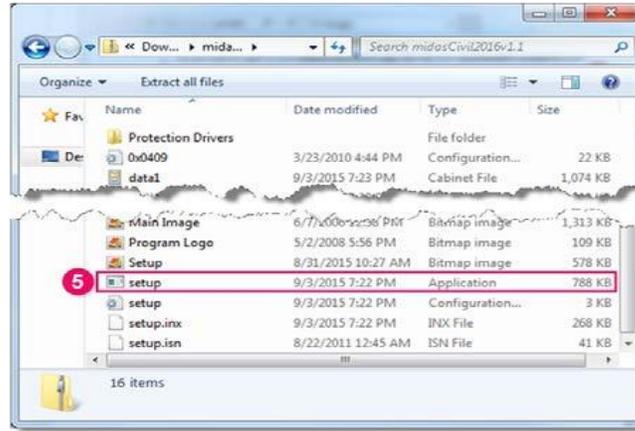


Figure 3 Civil Install 3

1. [Save] or [Save As] a installation file.
2. [Open folder]
3. Find a downloaded zip file of installation.
4. [Extract] a zip file.
5. Double click "setup.exe" to start an installation.

4. Install midas Civil - step(1/3)

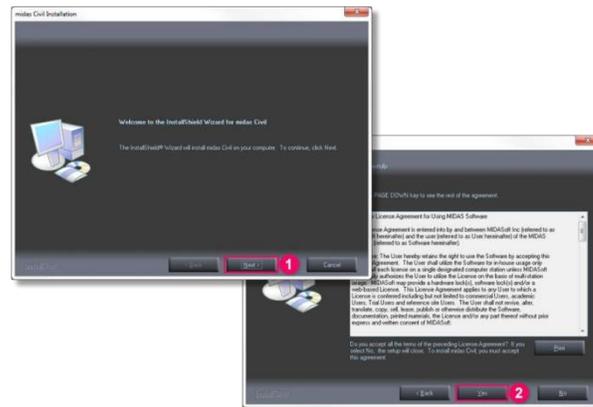


Figure 4 Civil Install 4

1. Click [Next]
2. Click [Yes]

5. Install midas Civil - step(2/3)

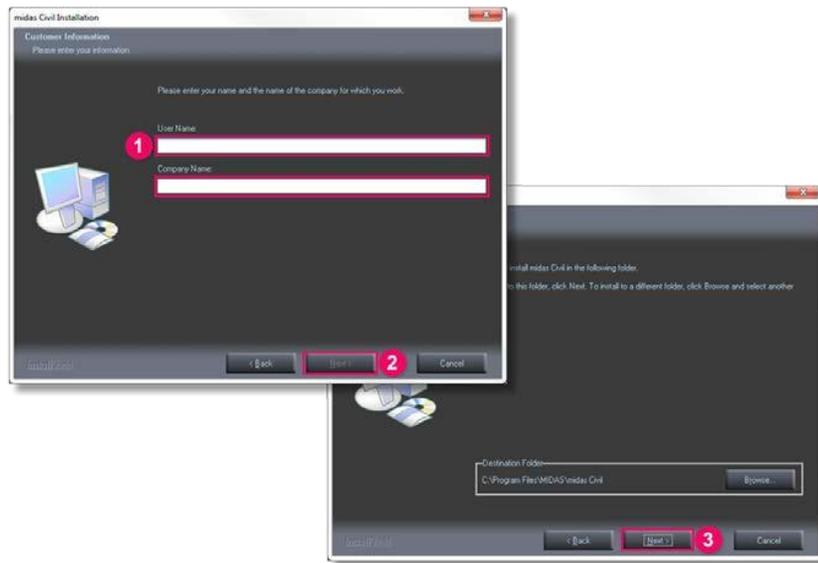


Figure 5 Civil Install 5

1. Enter User Name and Company Name.
2. Click [Next]
3. Click [Next]

6. Install midas Civil - step(3/3)

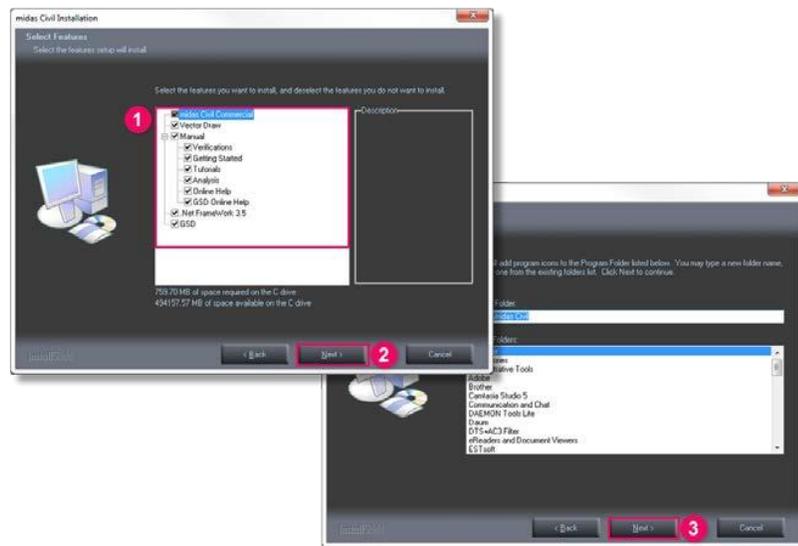


Figure 6 Civil Install 6

1. Select features you want to install.
It's recommended to install the ones which are selected automatically.
2. Click [Next] and follow the next step.
3. Click [Next]

7. Install VectorDraw (1/2)

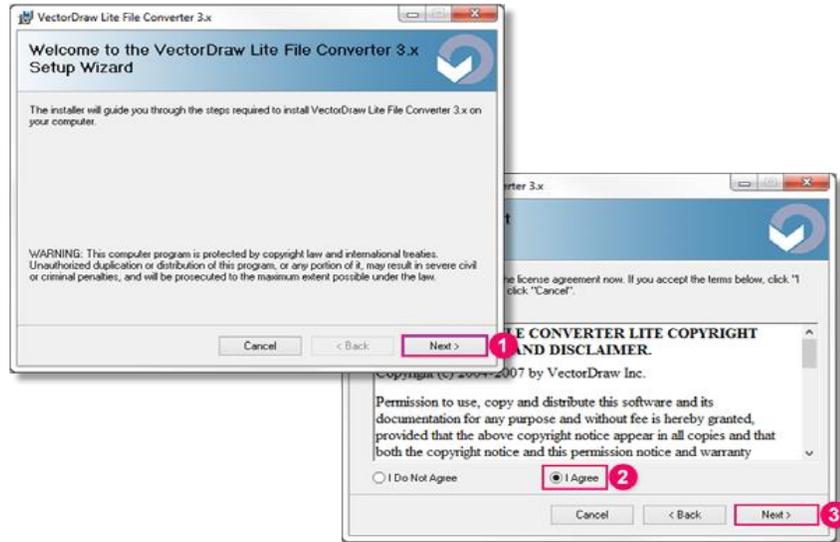


Figure 7 Civil install 7

1. Select a program folder.
2. Click [Next] and follow the next step.
3. Select [I Agree]
4. Then, [Next]

8. Install VectorDraw (2/2)

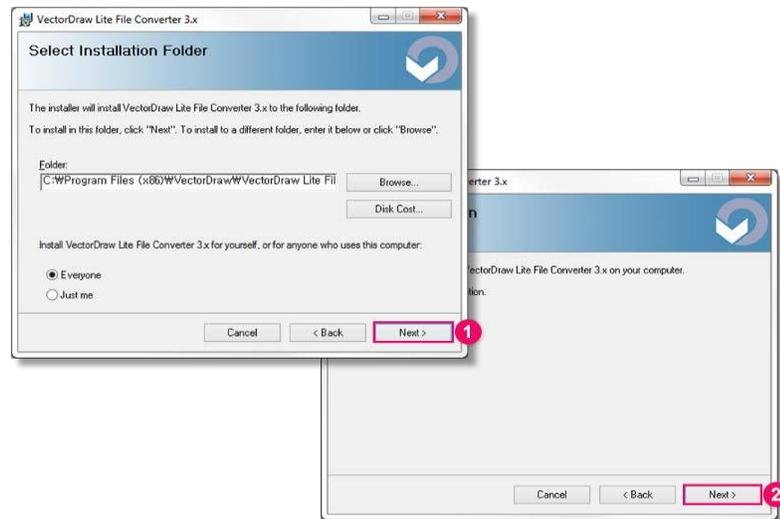


Figure 8 Civil Install 8

1. Select a download folder.
2. Click [Next] and follow the next step.

9. Install VC Redistributable Package 2012

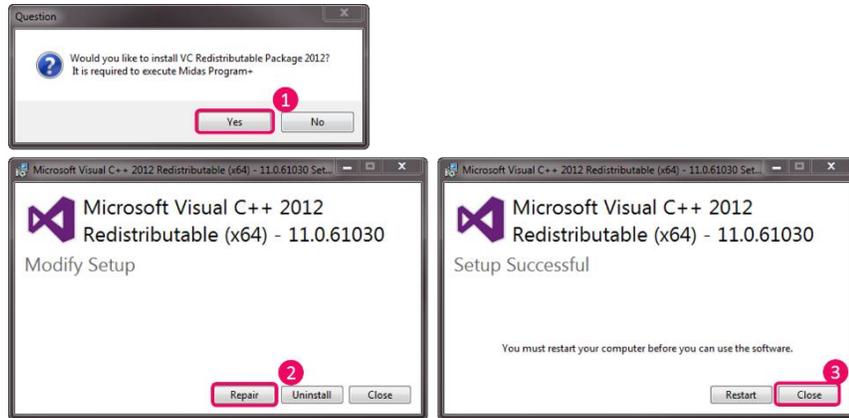


Figure 9 Civil Install 9

1. Click [Yes]
2. Click [Repair] or [Install]
3. Click [Close]. It's recommended restarting the computer at the end of an installation to ensure that it's installed perfectly.

10. a) Do not install Protection Lock Driver (Web License Type)

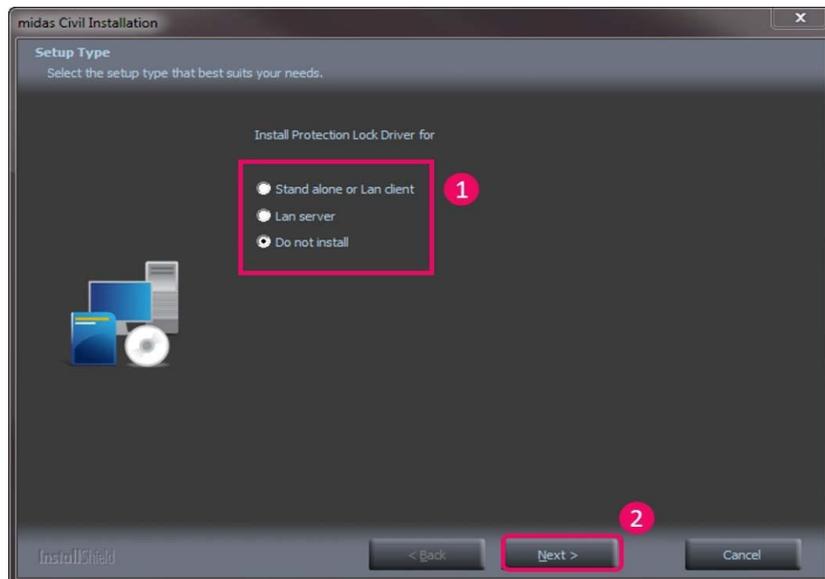


Figure 10 Civil Install 10 a)

1. If your license is a web license type, select [Do not install] *
2. Click [Next >]

*The Sentinel Lock Driver is required for a hardware license (USB dongle). If your license is a web license type, you don't need to install the driver. If you are unsure what license type your license has, please go to the step 10. b) and then install the Protection Lock Driver.

10. b)
Install
Protection Lock
Driver
(Hardware
(USB Dongle)
license)

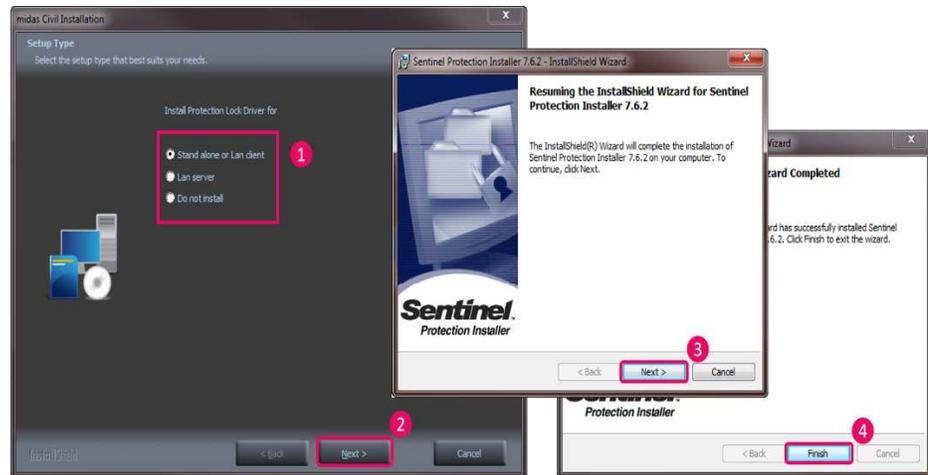


Figure 11 Civil Install 10 b)

1. If your license type is a hardware license (USB Dongle), please select [Stand alone or Lan client]
2. Click [Next >]
3. Click [Next >]
4. Click [Finish]

*The Protection Lock Driver is required for a hardware license (USB Dongle). If you have a USB license or you are unsure about what type your license has, please install the lock driver according to this page.

11. Complete an
installation

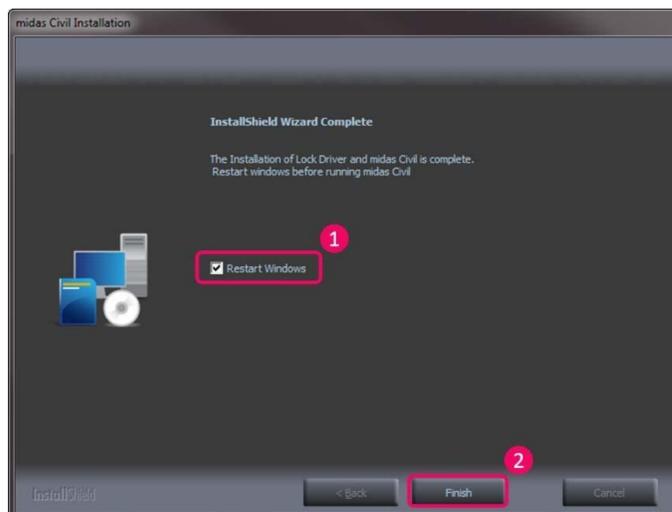


Figure 12 Civil Install 11

1. Click [Restart Windows]. If you don't want to restart the Windows, you can restart Windows later manually before running the midas Civil software.
2. Click [Finish]

* If there are system crashes while installation, please go to 1.4 ([Click](#)) and follow the instructions.

1.3.1.2 Apply a patch

If there is an available patch file, you can apply a patch file by following this instruction.

In additional, you can check whether there is a patch available now or not with the link below.

- Link : http://en.midasuser.com/download/commercial_list.asp

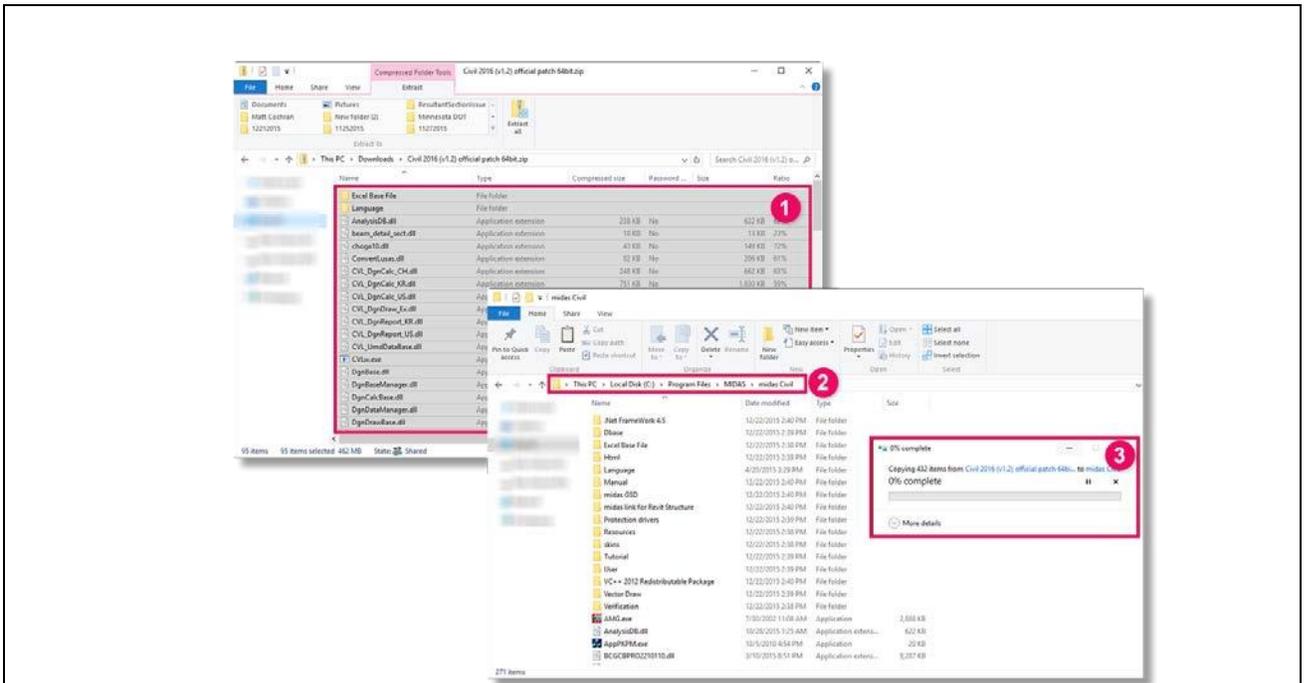


Figure 13 Civil Patch 1

1. Copy every files and folders in a downloaded zip file of patch.
2. Go to a folder which midas Civil is installed in, most likely at C: Drive > Program Files > MIDAS folder > midas Civil folder (The path could be different depend on what folder midas program is installed in)
3. Paste all the copied files and folders

1.3.1.3 Download Files

You can download Installation and patch files of midas Civil here.

- midas Civil ([Click](#))
- Patch files ([Click](#))

If you want to see an instruction for Installation, Go to 1.1.1 Installation ([Click](#))

1.3.2 FEA

1.3.2.1 Installation

*Before an Installation, please acquire **an administrator right**. If not, an installation couldn't be finished properly.

1. Create ID&P.W

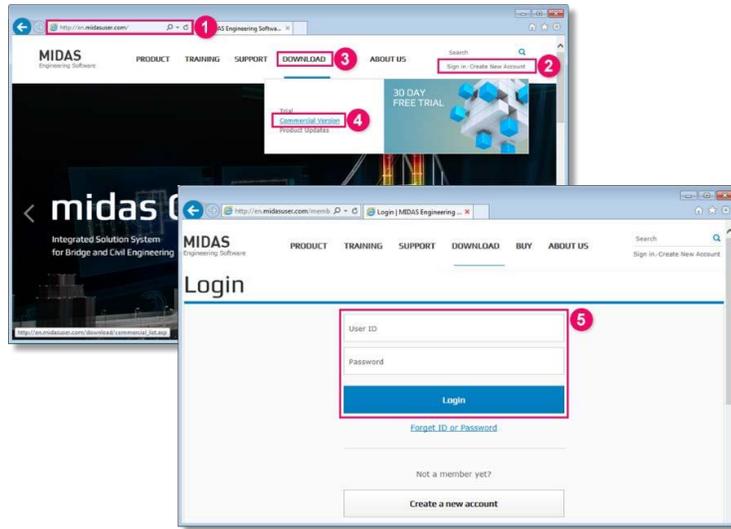


Figure 14 FEA install 1

1. Go to [<http://en.midasuser.com>]
2. Click New Account and Create ID / Password.
(If you are already a MUSS user, you don't need to create new account)
3. Go to [Download] on the top menu.
4. Click [Commercial Version]
5. Log in with your Muss ID & Password

2. Download Install Files (1/2)

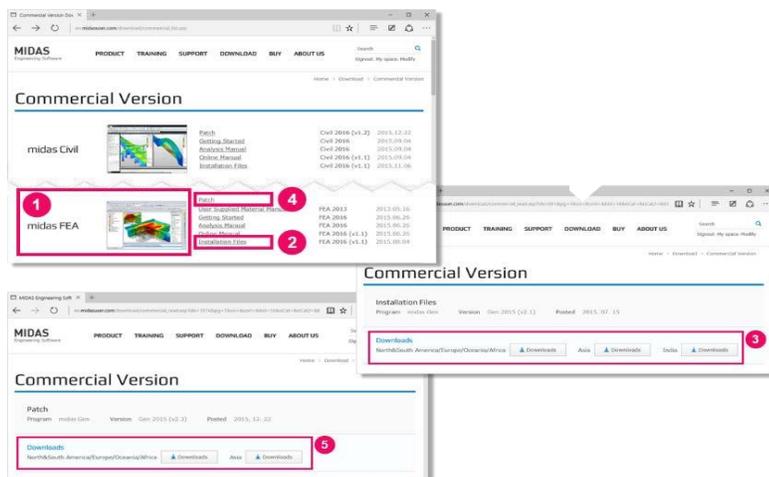


Figure 15 FEA install 2

1. Find the midas FEA section
2. Click [Installation Files]
3. Click [Downloads]
4. Go back to the previous page and click [Patch]

(If there are available patches, please install that. However, It's available depends on what version you have at the moment. Also, If you want to know how to apply a patch, go to 1.3.2.2 [\(Click\)](#))

5. Click [Downloads]

3. Download Install Files (2/2)

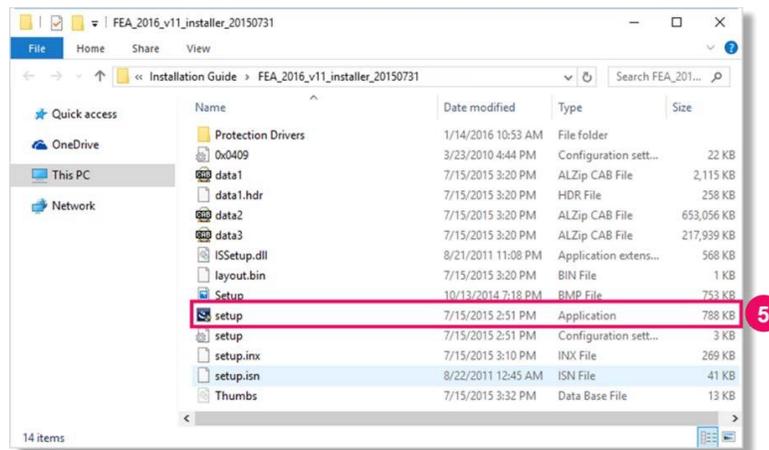


Figure 16 FEA Install 3

1. [Save] or [Save As] installation files.
2. [Open folder].
3. Find a downloaded zip file of installation.
4. [Extract] a zip file.
5. Double click [setup.exe] to start an installation

4. Install midas FEA - step (1/3)

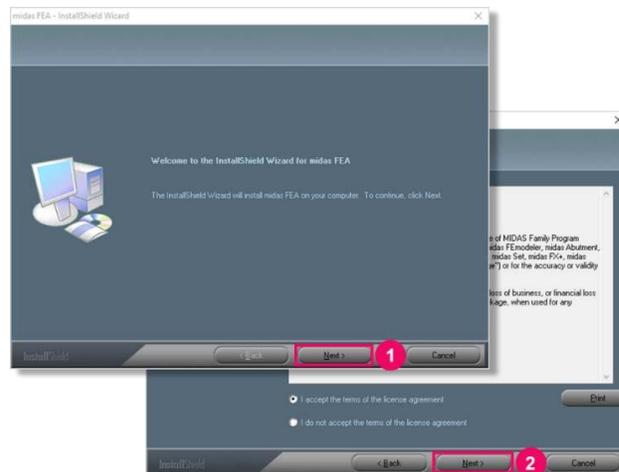


Figure 17 FEA Install 4

1. Click [Next]
2. Click [Next]

5. Install midas FEA - step (2/3)

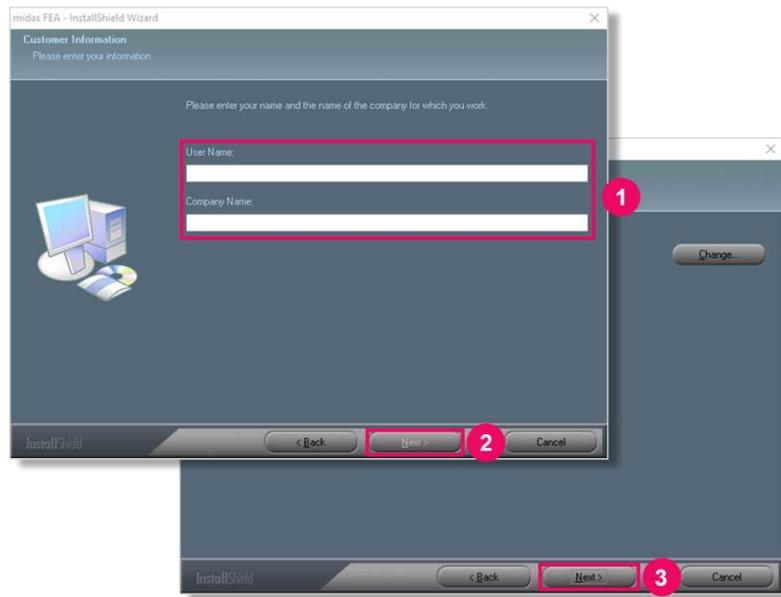


Figure 18 FEA Install 5

1. Enter User Name and Company Name.
2. Click [Next]
3. Click [Next]

6. Install midas FEA - step (3/3)

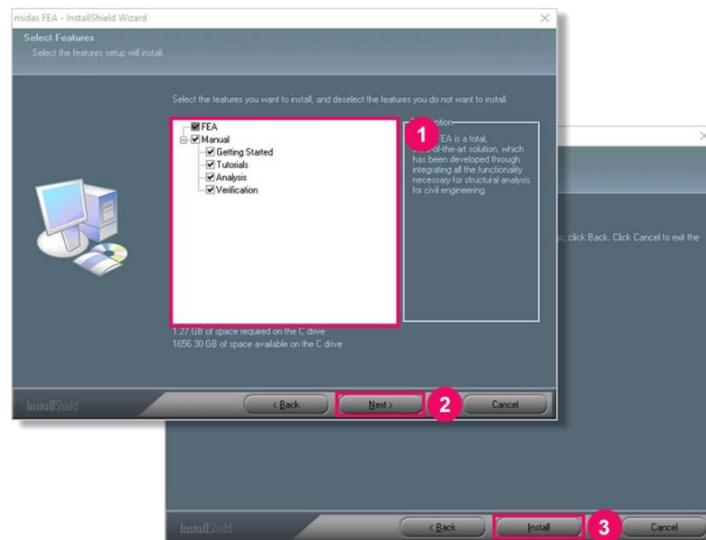


Figure 19 FEA Install 6

1. Select features you want to install. It's recommended to select the ones that are selected automatically.
2. Click [Next] and follow the next step.
3. Click [Next]

7. Install VectorDraw (1/2)

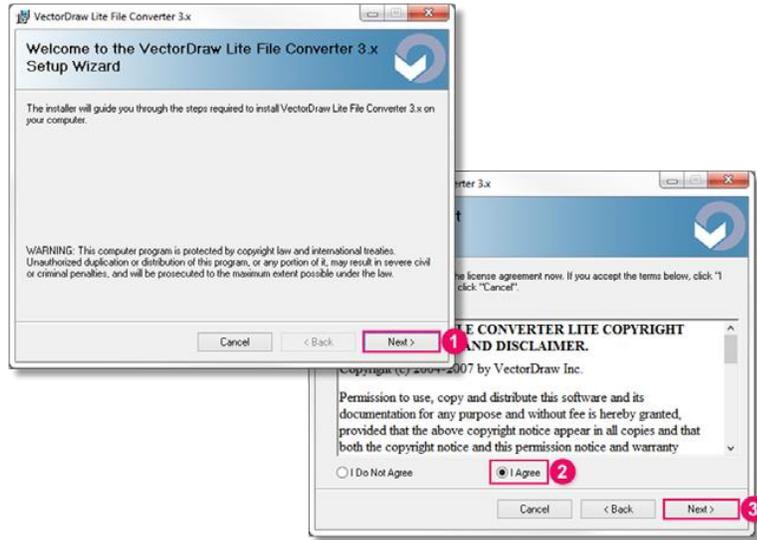


Figure 20 FEA install 7

1. Select the program folder.
2. Click [Next] and follow the next step.
3. Select [I Agree]
4. Then, [Next]

8. Install VectorDraw (2/2)

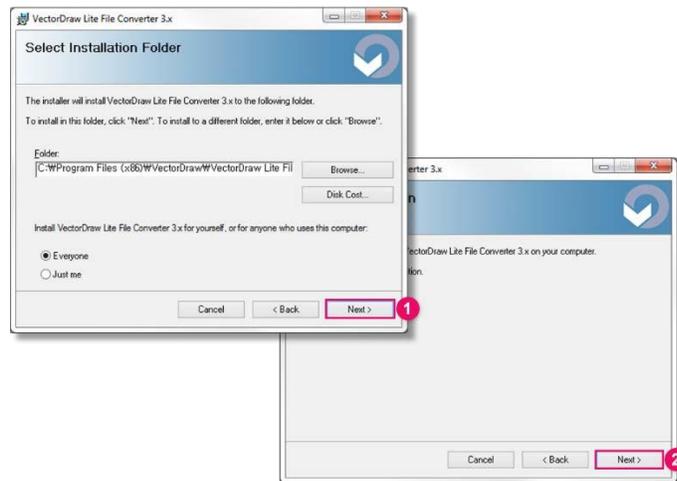


Figure 21 FEA Install 8

1. Select a download folder.
2. Click [Next] and follow the next step.

9. a) Do not install Protection Lock Driver (Web License Type)



Figure 22 FEA Install 9 a)

1. If your license is a web license type, select [Do not install] *
2. Click [Next >]
3. Click [Finish]

*The Sentinel Lock Driver is required for a hardware license (USB dongle). If your license is a web license type, you don't need to install the driver. If you are unsure what license type your license has, please go to the step 10. b) and then install the Protection Lock Driver.

9. b) Install Protection Lock Driver (Hardware (USB Dongle) license)

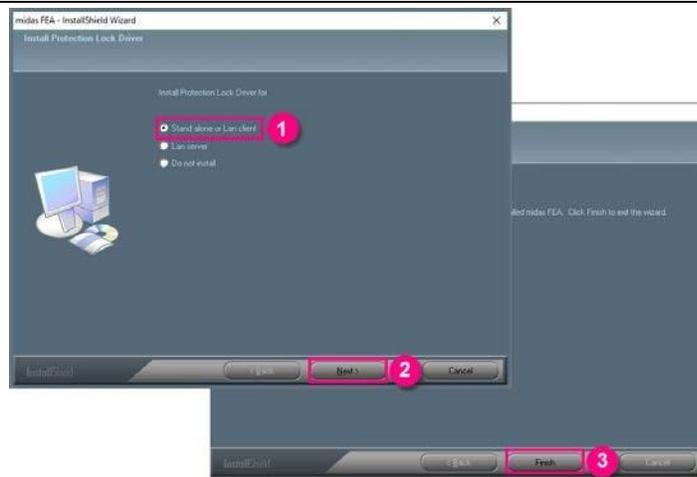


Figure 23 FEA Install 9 b)

1. If your license type is a hardware license (USB Dongle), select [Stand alone or Lan client]
2. Click [Next >]
3. Click [Finish]

*The Protection Lock Driver is required for a hardware license (USB Dongle). If you have a USB license or you are unsure about what type your license has, please install the lock driver according to this page.

10. Install Sentinel Protection Installer

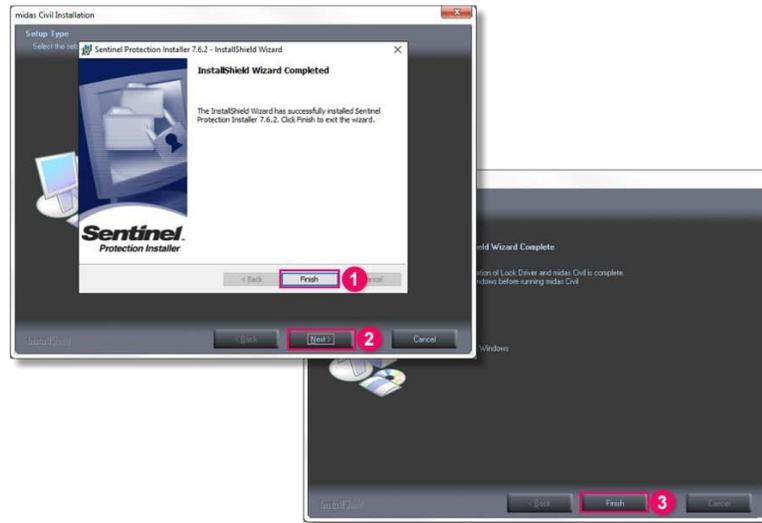


Figure 24 FEA Install 10

1. Click [Finish]
2. Click [Next]
3. Click [Finish]

11. Complete the installation

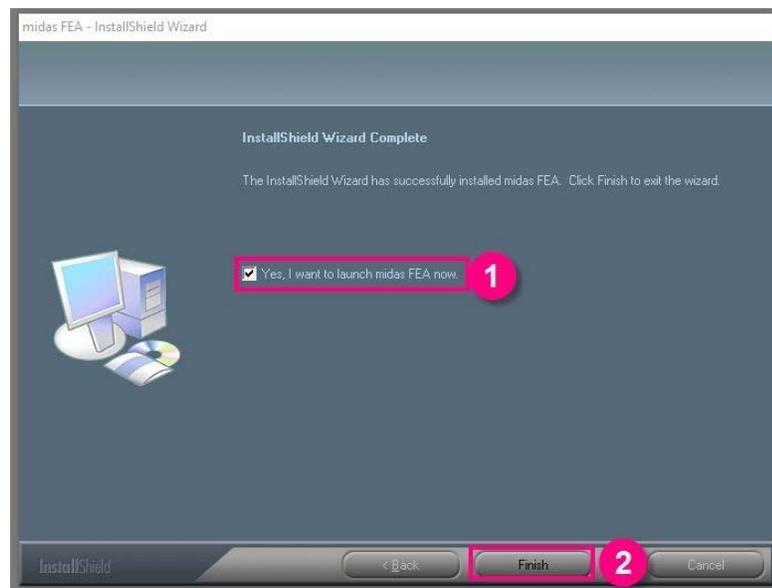


Figure 25 FEA Install 11

1. Click [Yes, I want to launch midas FEA now].
If you don't want to start the program now, uncheck the box.
2. Click [Finish]

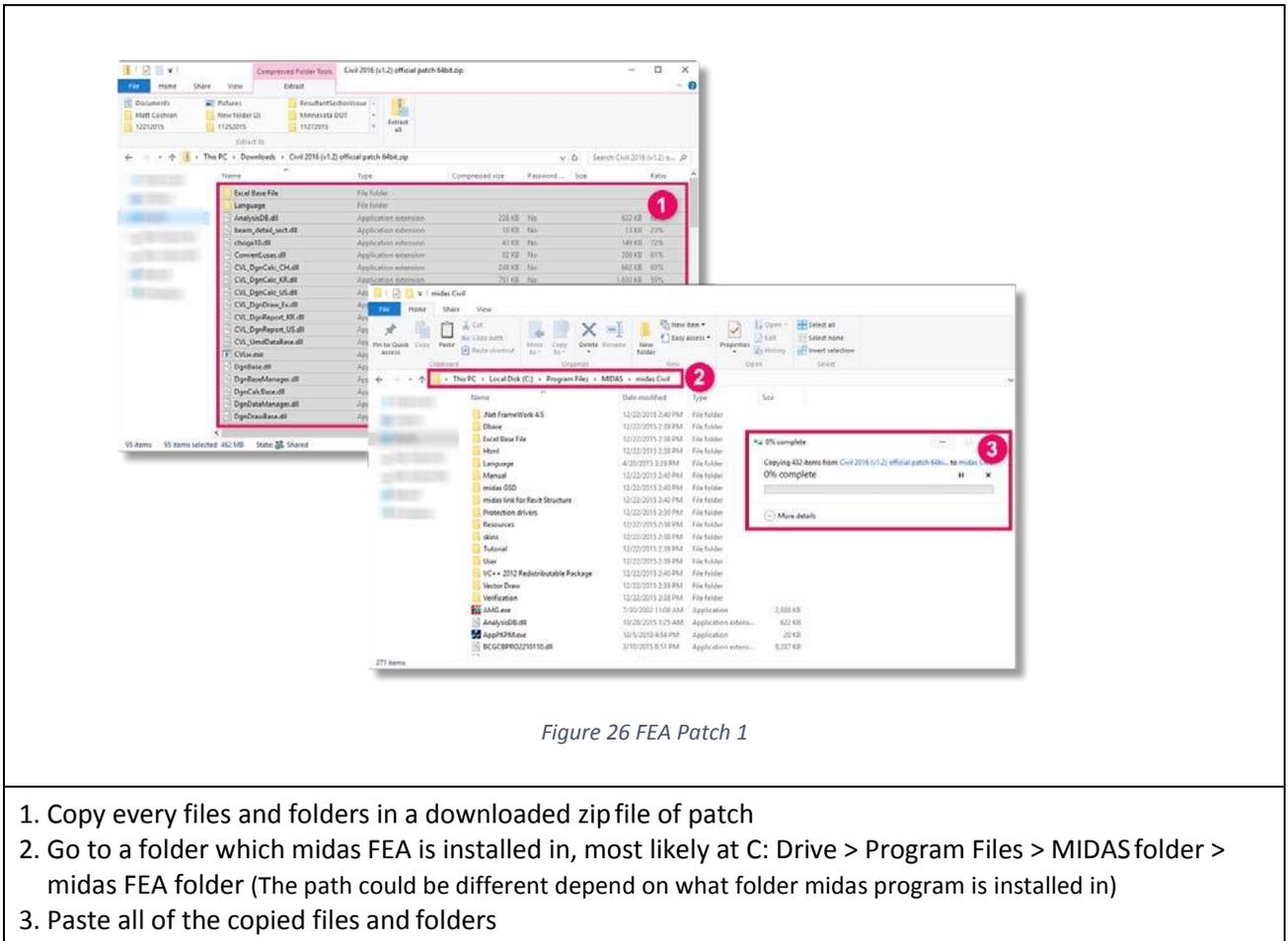
* If there are system crashes while installation, Go to 1.4 ([Click](#)) and follow the instructions.

1.3.2.2 Apply a patch

If there is an available patch file, you can apply a patch file by following this instruction.

In additional, you can check whether there is a patch available now or not with the link below.

- Link : http://en.midasuser.com/download/commercial_list.asp



1.3.2.3 Download Files

You can download installation file of midas FEA below.

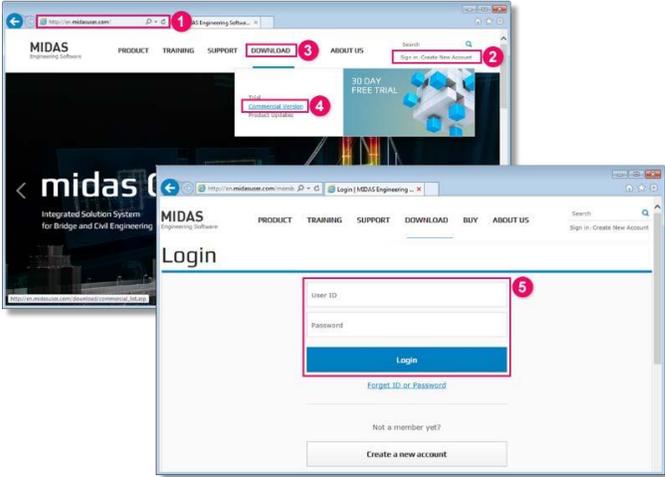
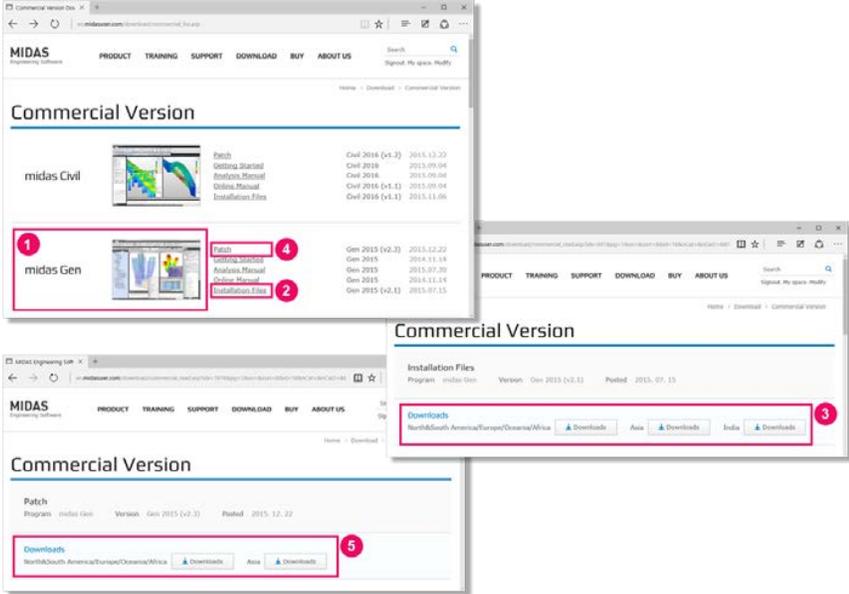
- midas FEA ([Click](#))

If you want to see an instruction for an Installation, Go to 1.3.2.1 Installation ([Click](#))

1.3.3 Gen

1.3.3.1 Installation

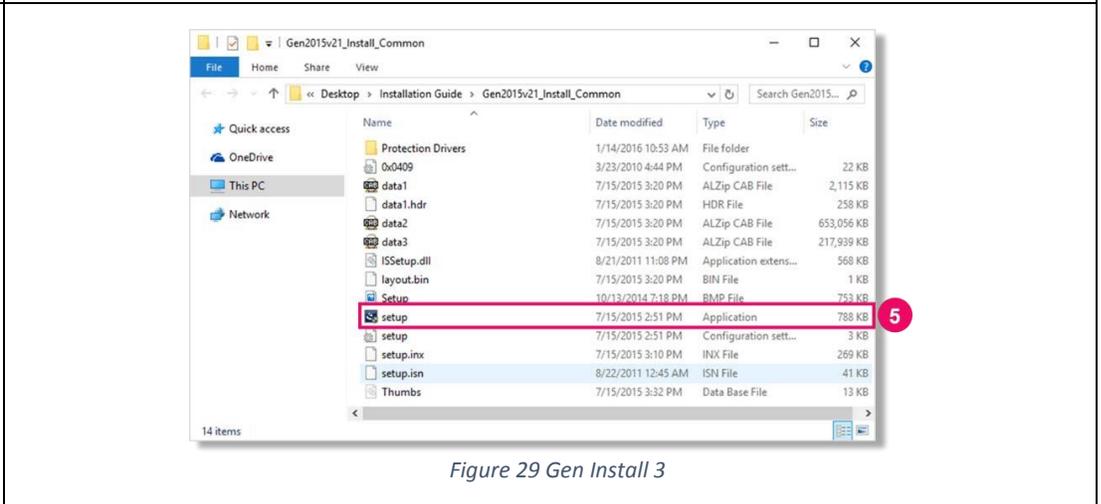
* Before an Installation, please acquire **an administrator right**. If not, an installation couldn't be finished properly.

<p>1. Create ID&P.W</p>	 <p style="text-align: center;">Figure 27 Gen install 1</p>
	<ol style="list-style-type: none"> 1. Go to [http://en.midasuser.com] 2. Click [New Account and Create ID / Password] (If you are already a MUSS user, you don't need to create new account) 3. Go to [Download] on the top menu. 4. Click [Commercial Version] 5. Log in with your Muss ID & Password
<p>2. Download Install Files (1/2)</p>	 <p style="text-align: center;">Figure 28 Gen Install 2</p>

1. Find midas Gen section
2. Click [Installation Files]
3. Click [Downloads]
4. Go back to the previous page and click [Patch]

(If there are available patches, please install that. However, It's available depends on what version you have at the moment. Also, If you want to know how to apply a patch, go to 1.3.3.2 [\(Click\)](#))
5. Click [Downloads]

3. Download Install Files (2/2)



1. [Save] or [Save As] installation files
2. [Open folder]
3. Find a downloaded zip file of installation
4. [Extract] a zip file
5. Double click [setup.exe] to start an installation

4. Install midas Gen - step (1/3)



1. Click [Next]
2. Click [Yes]

5. Install midas Gen - step (2/3)

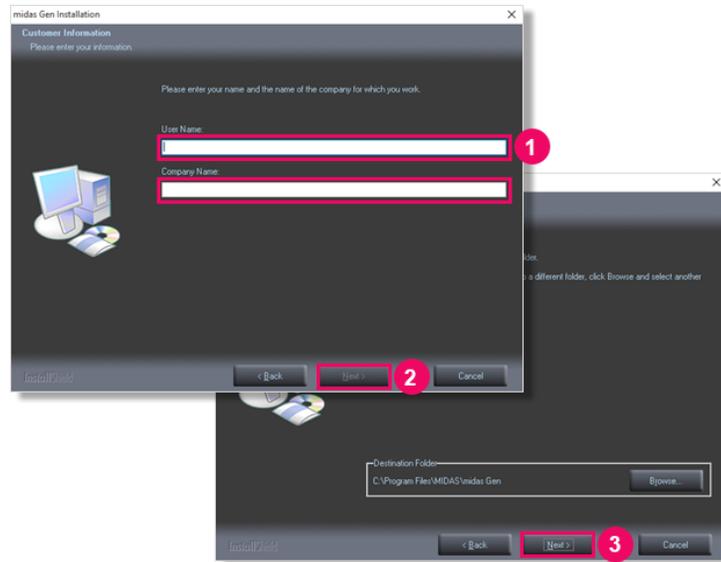


Figure 27 Gen Install 5

1. Enter User Name and Company Name
2. Click [Next]
3. Click [Next]

6. Install midas Gen - step (3/3)

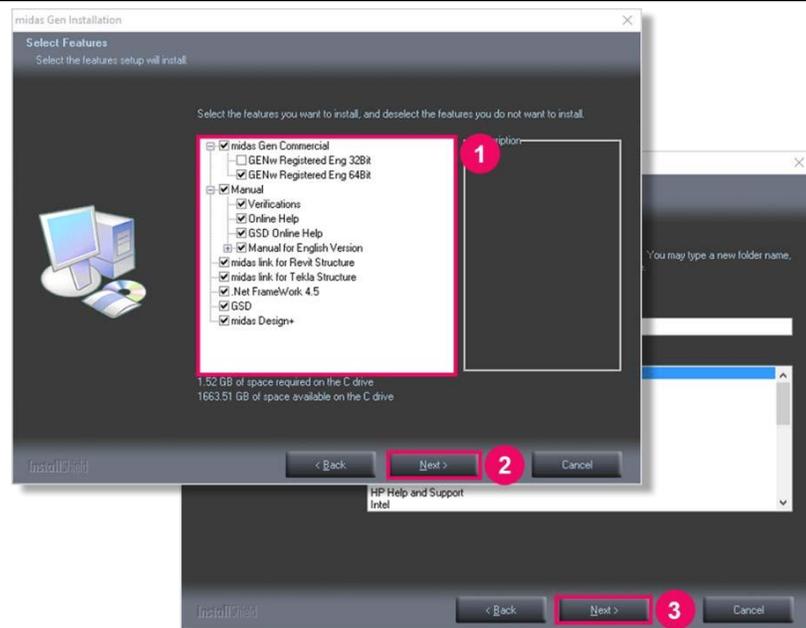


Figure 32 Gen Install 6

1. Select features you want to install. It's recommended to select the ones that are selected automatically
2. Click [Next] and follow the next step.
3. Click [Next]

7. a) Do not install Protection Lock Driver (Web License Type)

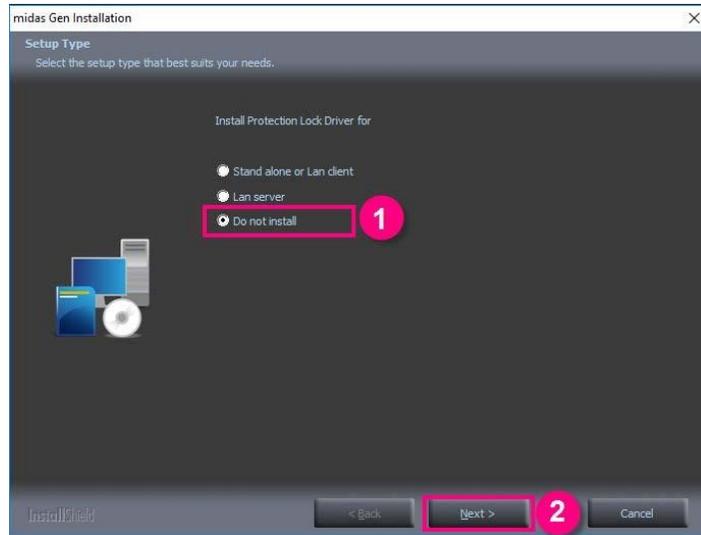


Figure 33 Gen Install 7 a)

1. If your license is a web license type, select [Do not install] *
2. Click [Next >]

*The Sentinel Lock Driver is required for a hardware license (USB dongle). If your license is a web license type, you don't need to install the driver. If you are unsure what license type your license has, please go to the step 10. b) and then install the Protection Lock Driver.

7. b) Install Protection Lock Driver (Hardware (USB Dongle) license)

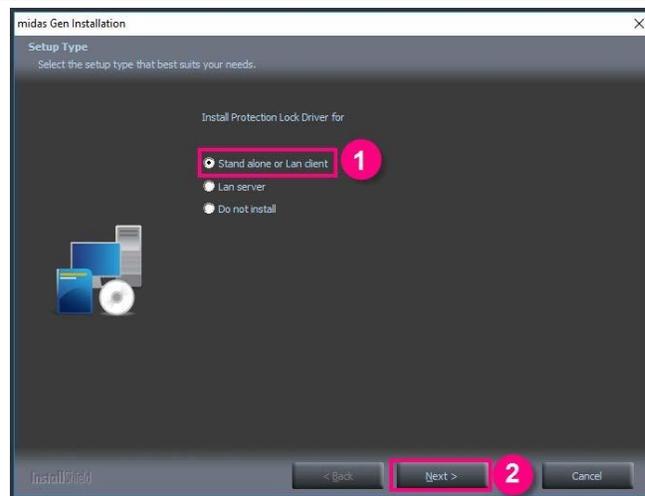


Figure 34 Gen Install 7 b)

1. If your license type is a hardware license (USB Dongle), select [Stand alone or Lan client]
2. Click [Next >]

* The Protection Lock Driver is required for a hardware license (USB Dongle). If you have a USB license or you are unsure about what type your license has, please install the lock driver according to this page.

8. Install Sentinel Protection Installer

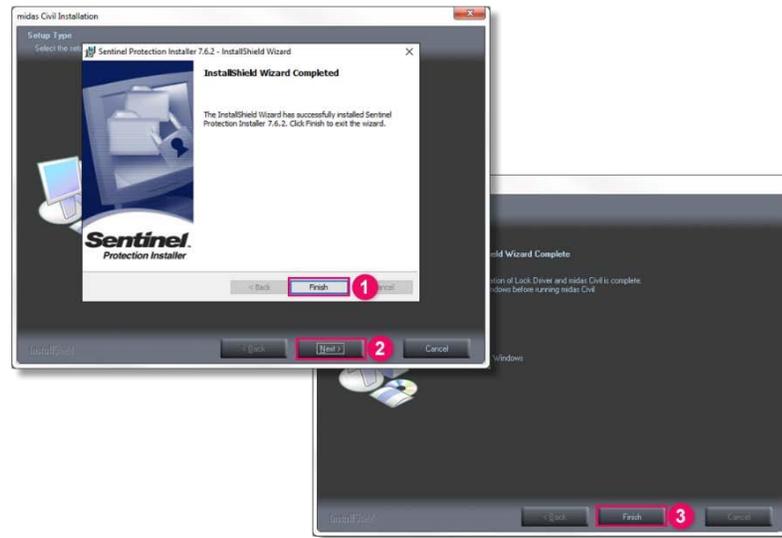


Figure 35 Gen Install 8

1. Click [Finish]
2. Click [Next]
3. Click [Finish]

9. Install VectorDraw (1/2)

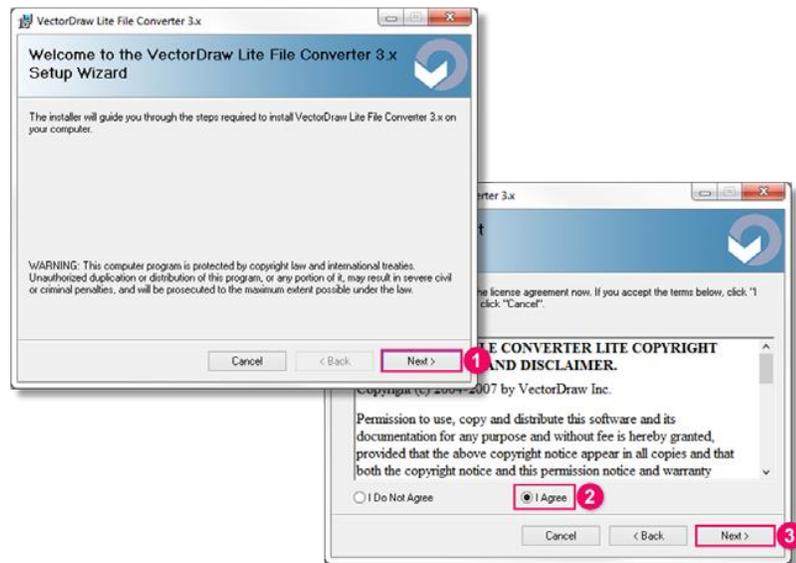


Figure 36 Gen Install 9

1. Select a program folder
2. Click [Next] and follow the next step
3. Select [I Agree]
4. Then, [Next]

10. Install VectorDraw (2/2)

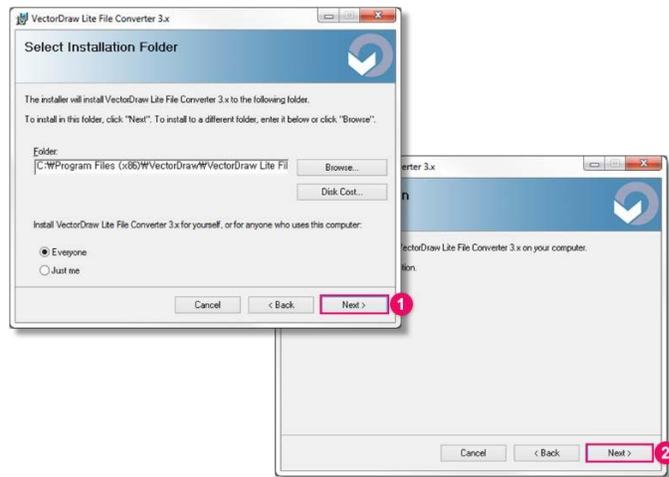


Figure 37 Gen Install 10

1. Select a download folder
2. Click [Next] and follow the next steps

11. Complete the installation

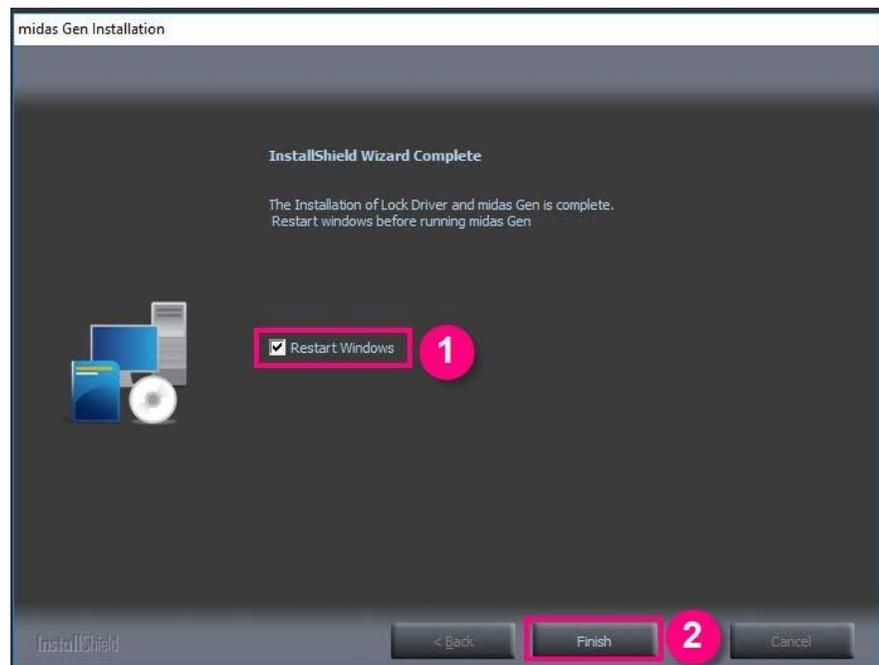


Figure 38 Gen Install 11

1. Click [Restart Windows]. If you don't want to restart the Windows now, you can manually restart Windows before running the midas Gen software
2. Click [Finish]

* If there are system crashes while an installation, Go to 1.4 ([Click](#)) and follow the instructions.

1.3.3.2 Apply a patch

If there is an available patch file, you can apply a patch file by following this instruction.

In addition, you can check whether there is a patch available now or not with the link below.

- Link : http://en.midasuser.com/download/commercial_list.asp

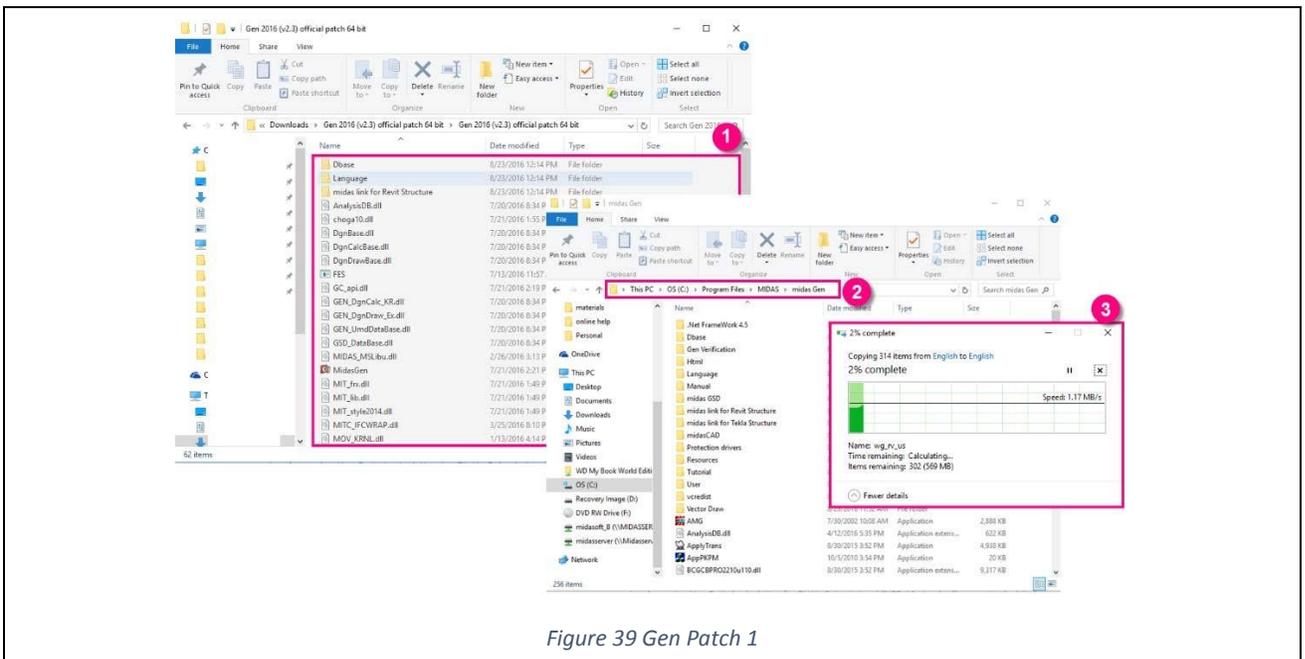


Figure 39 Gen Patch 1

1. Copy every files and folders in a downloaded zip file of patch
2. Go to a folder which midas Gen is installed in, most likely at C: Drive > Program Files > MIDAS folder > midas Gen folder (The path could be different depend on what folder midas program is installed in)
3. Paste all of the copied files and folders

1.3.3.3 Download Files

You can download installation and patch files of midas Gen below.

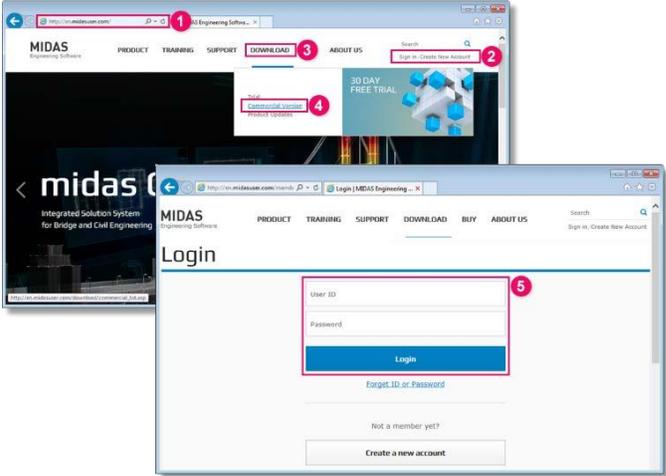
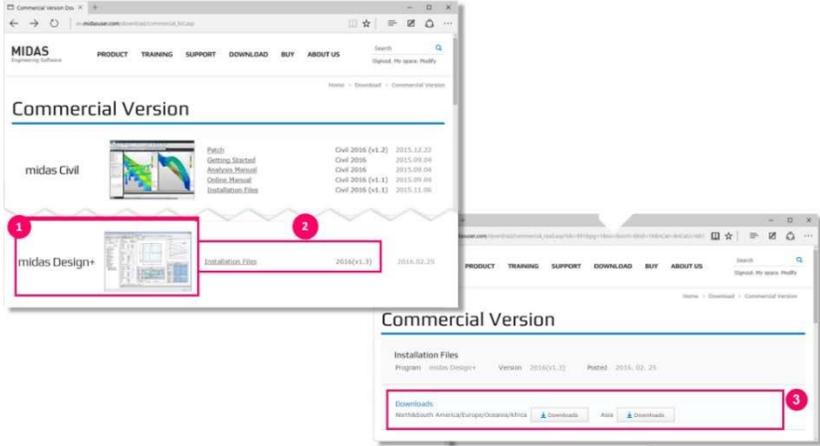
- midas Gen ([Click](#))
- Patch files ([Click](#))

If you want to see an instruction for Installation, Go to 1.3.3.1 Installation ([Click](#))

1.3.4. Design+

1.3.4.1 Installation

* Before an Installation, please acquire an **administrator right**. If not, an installation couldn't be finished properly.

<p>1. Create ID&P.W</p>	 <p>Figure 40 Design+ install 1</p>
	<ol style="list-style-type: none"> 1. Go to [http://en.midasuser.com] 2. Click” New Account and Create ID / Password” (If you are already a MUSS user, you don't need to create new account) 3. Go to [Download] on the top menu. 4. Click [Commercial Version] 5. Log in with your Muss ID & Password
<p>2. Download Install Files (1/2)</p>	 <p>Figure 41 Design+ Install 2</p>

1. Find midas Design+ section
2. Click [Installation Files]
3. Click [Downloads]
4. Go back to the previous page and click [Patch]
(If there are available patches, please install that. However, It's available depends on what version you have at the moment. Also, If you want to know how to apply a patch, go to 1.3.4.2 [\(Click\)](#))
5. Click [Downloads]

3. Download Install Files (2/2)

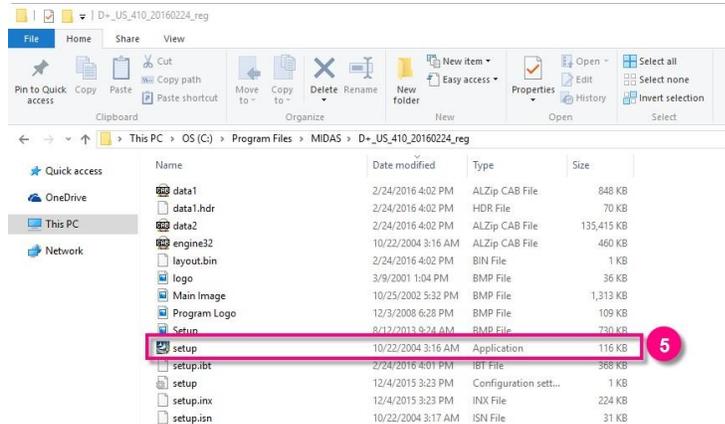


Figure 42 Design+ Install 3

1. [Save] or [Save As] installation files
2. [Open folder]
3. Find a downloaded zip file for installation
4. [Extract] a zip file
5. Double click [setup.exe] to start an installation

4. Install midas Design+ - step(1/3)



Figure 43 Design+ Install 4

1. Click [Next]
2. Click [Yes]

5. Install midas Design+ - step (2/3)

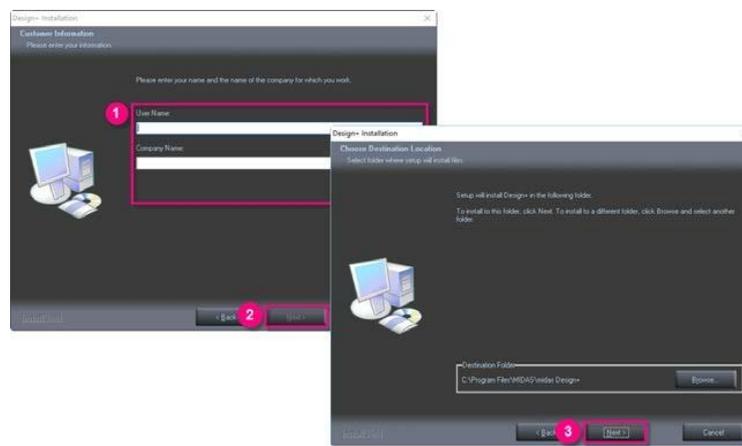


Figure 44 Design+ Install 5

1. Enter User Name and Company Name
2. Click [Next]
3. Click [Next]

6. Install midas Design+ - step(3/3)

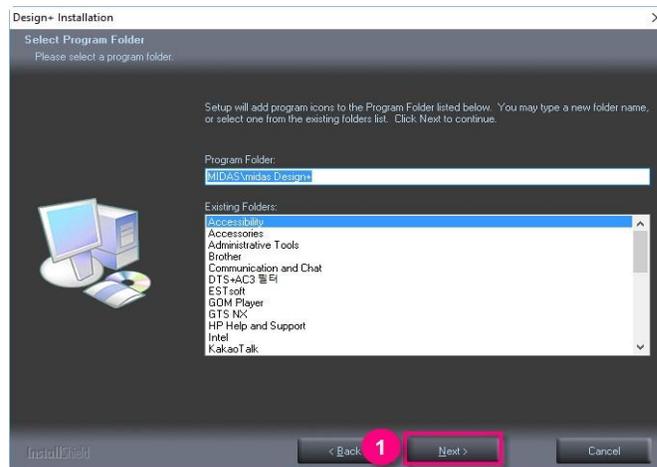


Figure 45 Design+ Install 6

1. Select a program folder you want to install in
2. Click [Next]

7. a) Do not install Protection Lock Driver (Web License Type)

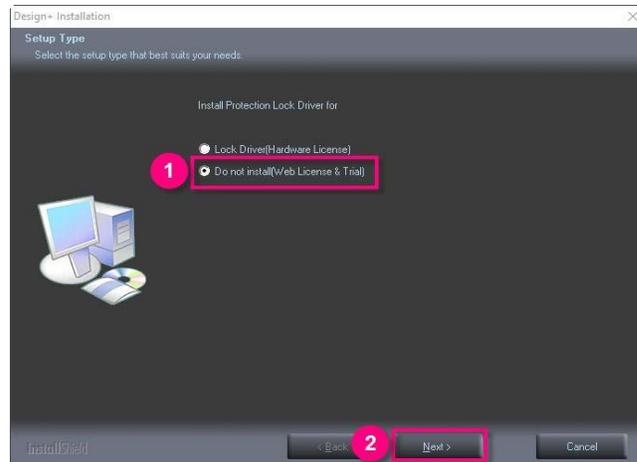


Figure 46 Design+ Install 7 a)

1. If your license is a web license type, select [Do not install] *
2. Click [Next >]
3. Click [Finish]

* The Sentinel Lock Driver is required for a hardware license (USB dongle). If your license is a web license type, you don't need to install the driver. If you are unsure what license type your license has, please go to the step 10. b) and then install the Protection Lock Driver.

7.b) Install Protection Lock Driver (Hardware (USB Dongle) license)

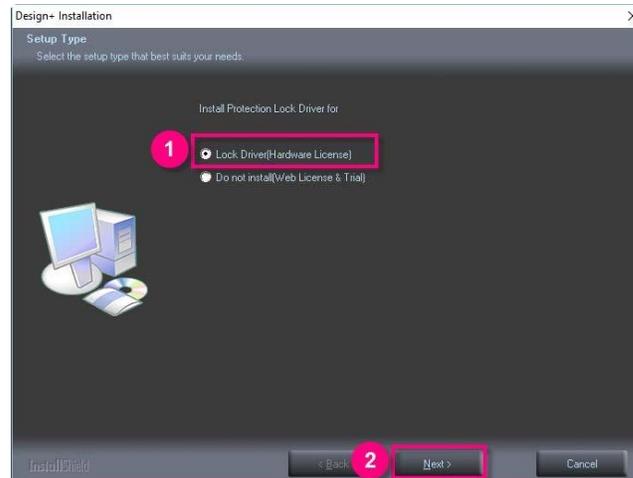


Figure 47 Design+ Install 7 b)

1. If your license type is a hardware license (USB Dongle), select [Lock Driver (Hardware License)]
2. Click [Next >]
3. Click [Finish]

*The Protection Lock Driver is required for a hardware license (USB Dongle). If you have a USB license or you are unsure about what type your license has, please install the lock driver according to this page.

8. Install Sentinel Protection Installer



Figure 48 Design+ Install 8

1. Click [Finish]
2. Click [Next]
3. Click [Finish]

9. Install VectorDraw (1/2)

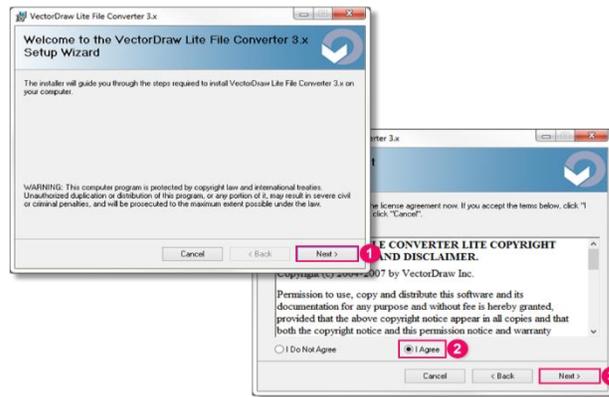


Figure 49 Design+ Install 9

1. Select a program folder
2. Click [Next] and follow the next step
3. Select [I Agree]
4. Then, [Next]

10. Install VectorDraw (2/2)

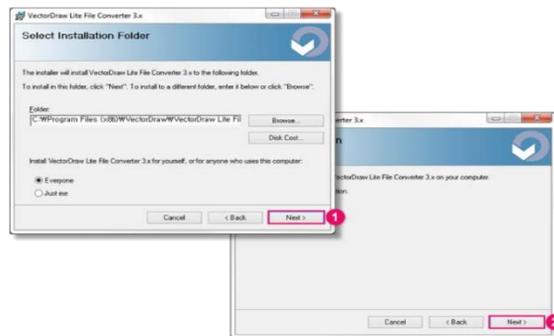


Figure 28 Design+ Install 10

1. Select a download folder
2. Click [Next] and follow the next step

11. Complete the installation

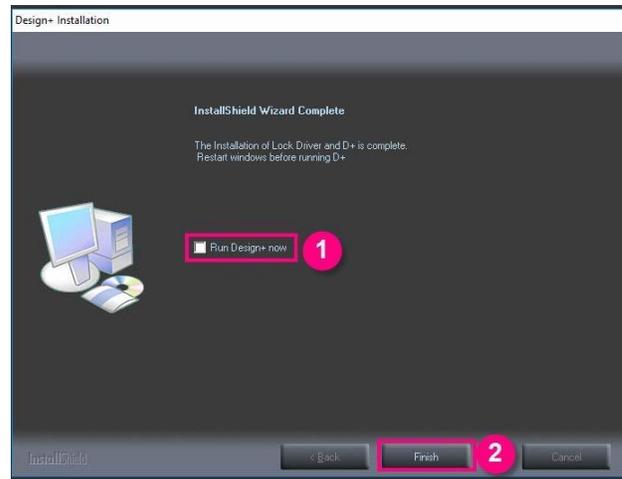


Figure 51 Design+ Install 11

1. Click [Run Design+ now]. If you don't want to start the program now, uncheck the box.
2. Click [Finish]

* If there are system crashes while installation, Go to 1.4 ([Click](#)) and follow the instructions.

1.3.4.2 Apply a patch

If there is an available patch file, you can apply a patch file by following this instruction.

In additional, you can check whether there is a patch available now or not with the link below..

- Link : http://en.midasuser.com/download/commercial_list.asp

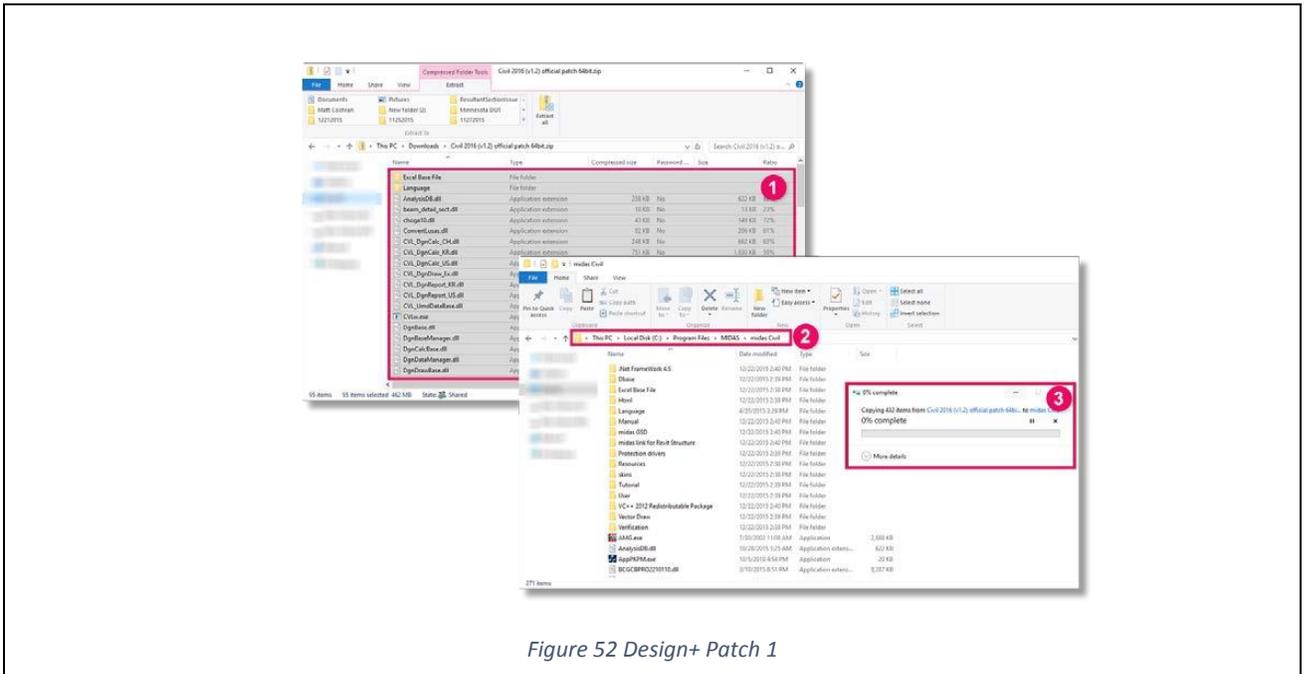


Figure 52 Design+ Patch 1

1. Copy every files and folders in a downloaded zip file of patch
2. Go to a folder which midas Design+ is installed in, most likely at C: Drive > Program Files > MIDAS folder > midas Design+ folder (The path could be different depend on what folder midas program is installed in)
3. Paste all of the copied files and folders

1.3.4.3 Download Files

You can download midas Design+ below.

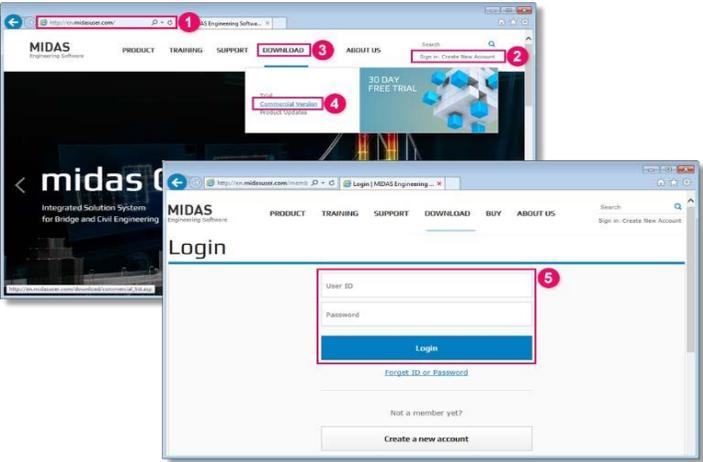
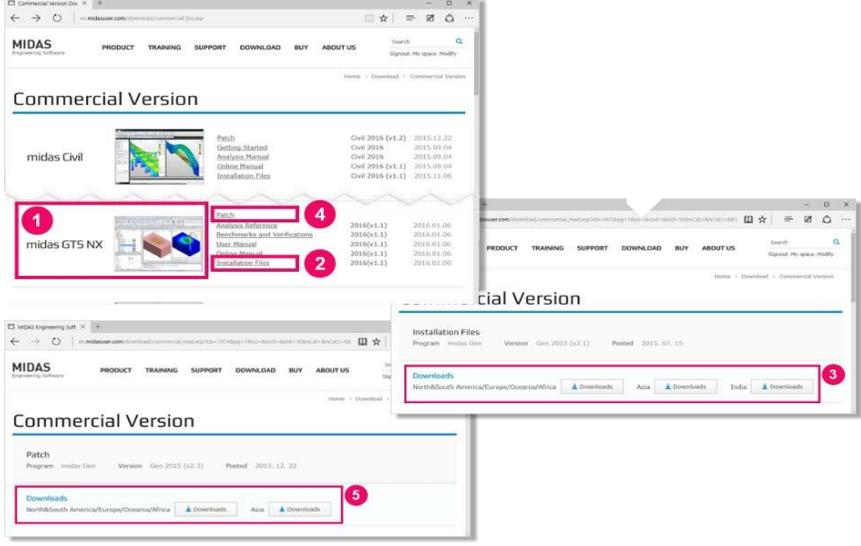
- midas Design+ ([Click](#))

If you want to see an instruction for an Installation, Go to 1.3.4.1 Installation ([Click](#))

1.3.5 GTS NX

1.3.5.1 Installation

* Before an Installation, please acquire **an administrator right**. If not, an installation couldn't be finished properly.

<p>1. Create ID&P.W</p>	 <p>Figure 53 GTS NX install 1</p>
	<ol style="list-style-type: none"> 1. Go to [http://en.midasuser.com] 2. Click New Account and Create ID / Password (If you are already a MUSS user, you don't need to create new account) 3. Go to [Download] on the top menu. 4. Click [Commercial Version] 5. Log in using your Muss ID & Password
<p>2. Download Install Files (1/2)</p>	 <p>Figure 54 GTS NX Install 2</p>

1. Find midas GTS NX section
2. Click [Installation Files]
3. Click [Downloads]
4. Go back to the previous page and click [Patch]
(If there are available patches, please install that. However, It's available depends on what version you have at the moment. Also, If you want to know how to apply a patch, go to 1.3.5.2 [\(Click\)](#))
5. Click [Downloads]

3. Download Install Files (2/2)

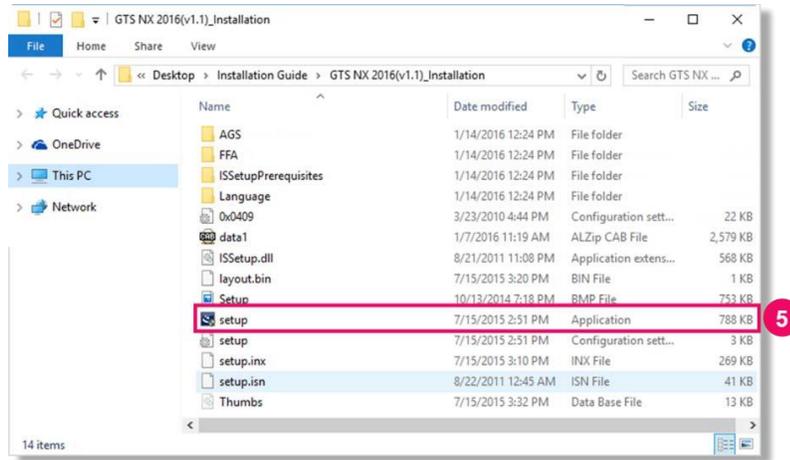


Figure 55 GTS NX Install 3

1. [Save] or [Save As] installation files
2. [Open folder]
3. Find a downloaded zip file for installation
4. [Extract] a zip file
5. Double click [setup.exe] to start an installation

4. Install midas GTS NX - step (1/3)

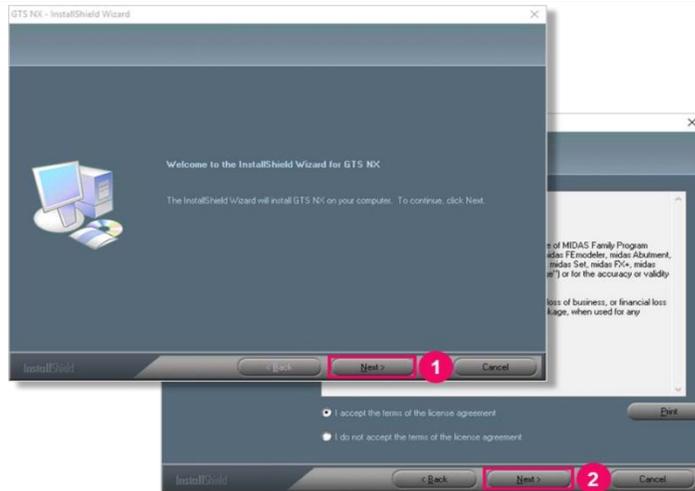


Figure 56 GTS NX Install 4

1. Click [Next>]
2. Click [Next>]

5. Install midas
GTS NX - step
(2/3)

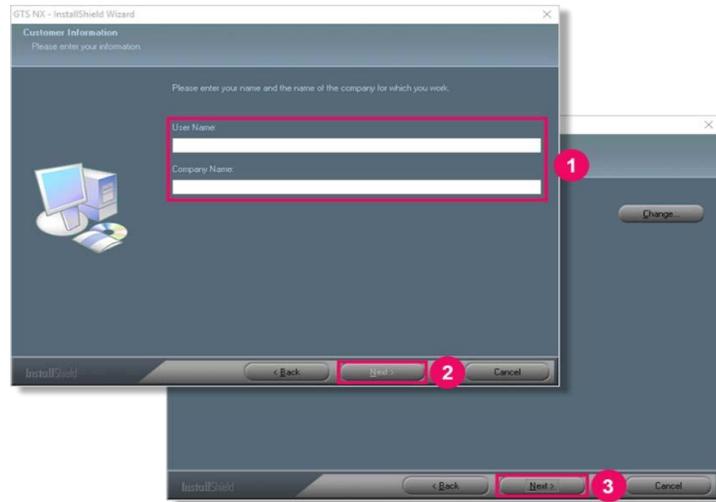


Figure 57 GTS NX Install 5

1. Enter User Name and Company Name
2. Click [Next]
3. Click [Next]

6. Install midas
GTS NX - step
(3/3)

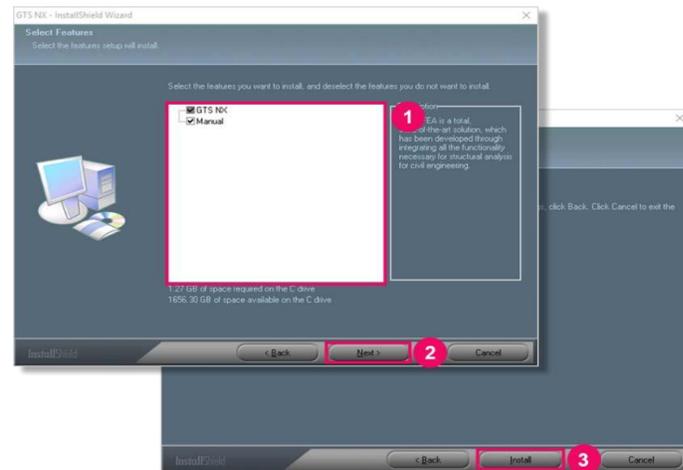


Figure 58 GTS NX Install 6

1. Select features you want to install
It's recommended to select the ones that are selected automatically
2. Click [Next] and follow the next step
3. Click [Next]

7. a) Do not install Protection Lock Driver (Web License Type)

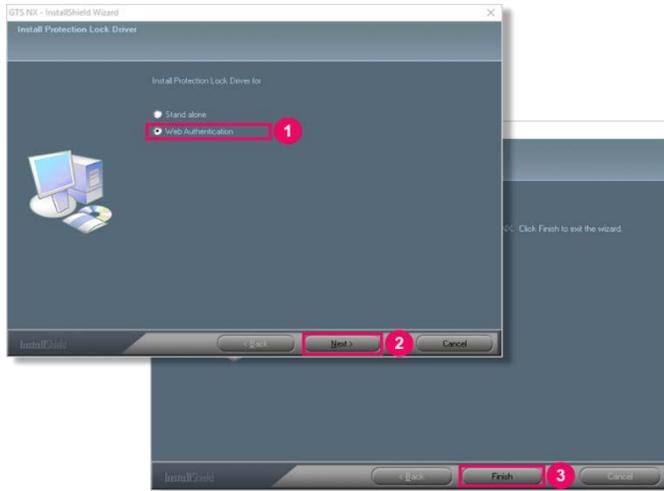


Figure 59 GTS NX Install 7 a)

1. If your license is a web license type, select [Web Authentication] *
2. Click [Next >]
3. Click [Finish]

* The Sentinel Lock Driver is required for a hardware license (USB dongle). If your license is a web license type, you don't need to install the driver. If you are unsure what license type your license has, please go to the step 10. b) and then install the Protection Lock Driver.

7. b) Install Protection Lock Driver (Hardware (USB Dongle) license)

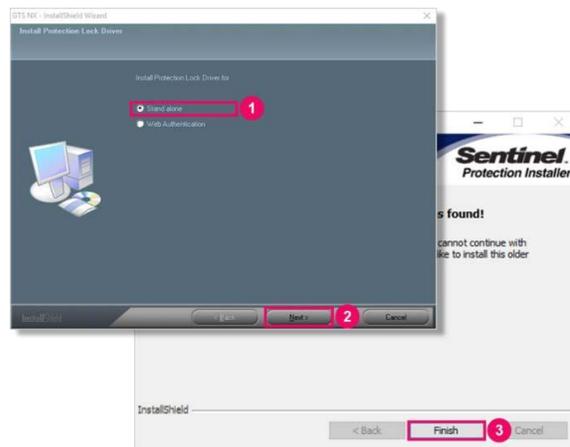


Figure 60 GTS NX Install 7 b)

1. If your license type is a hardware license (USB Dongle), select [Standalone]
2. Click [Next >]

* The Protection Lock Driver is required for a hardware license (USB Dongle). If you have a USB license or you are unsure about what type your license has, please install the lock driver according to this page.

8. Install Sentinel Protection Installer

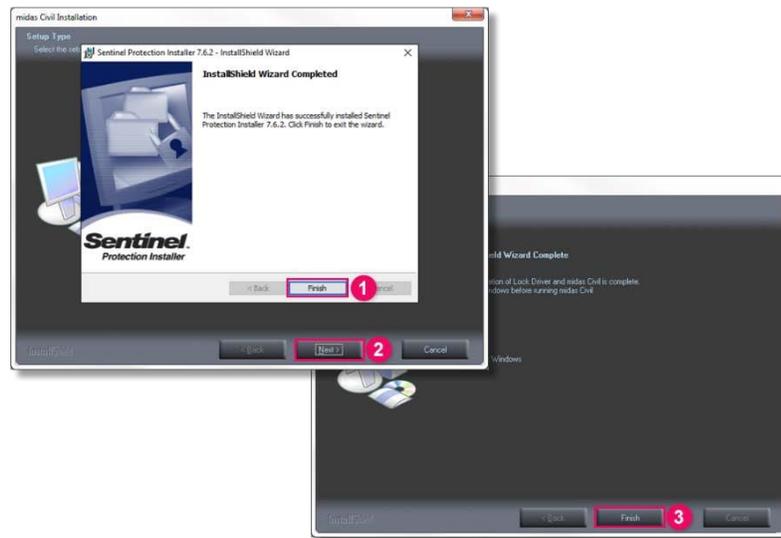


Figure 61 GTS NX Install 8

1. Click [Finish]
2. Click [Next]
3. Click [Finish]

9. Complete the installation

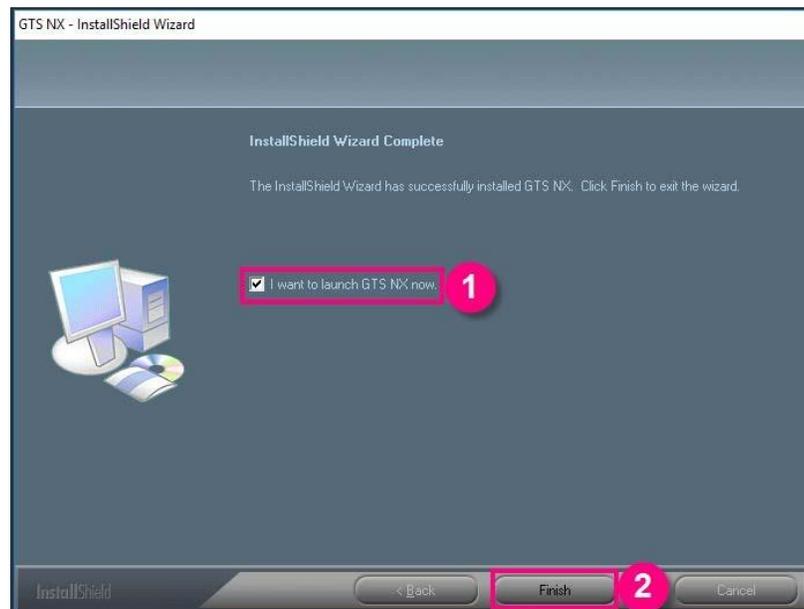


Figure 62 GTS NX Install 9

1. Click [I want to launch GTS NX now]
If you don't want to start the program now, uncheck the box.
2. Click [Finish]

* If there are system crashes while installation, Go to 1.4 ([Click](#)) and follow the instructions.

1.3.5.2 Apply a patch

If there is an available patch file, you can apply a patch file by following this instruction.

In additional, you can check whether there is a patch available now or not with the link below.

- Link : http://en.midasuser.com/download/commercial_list.asp

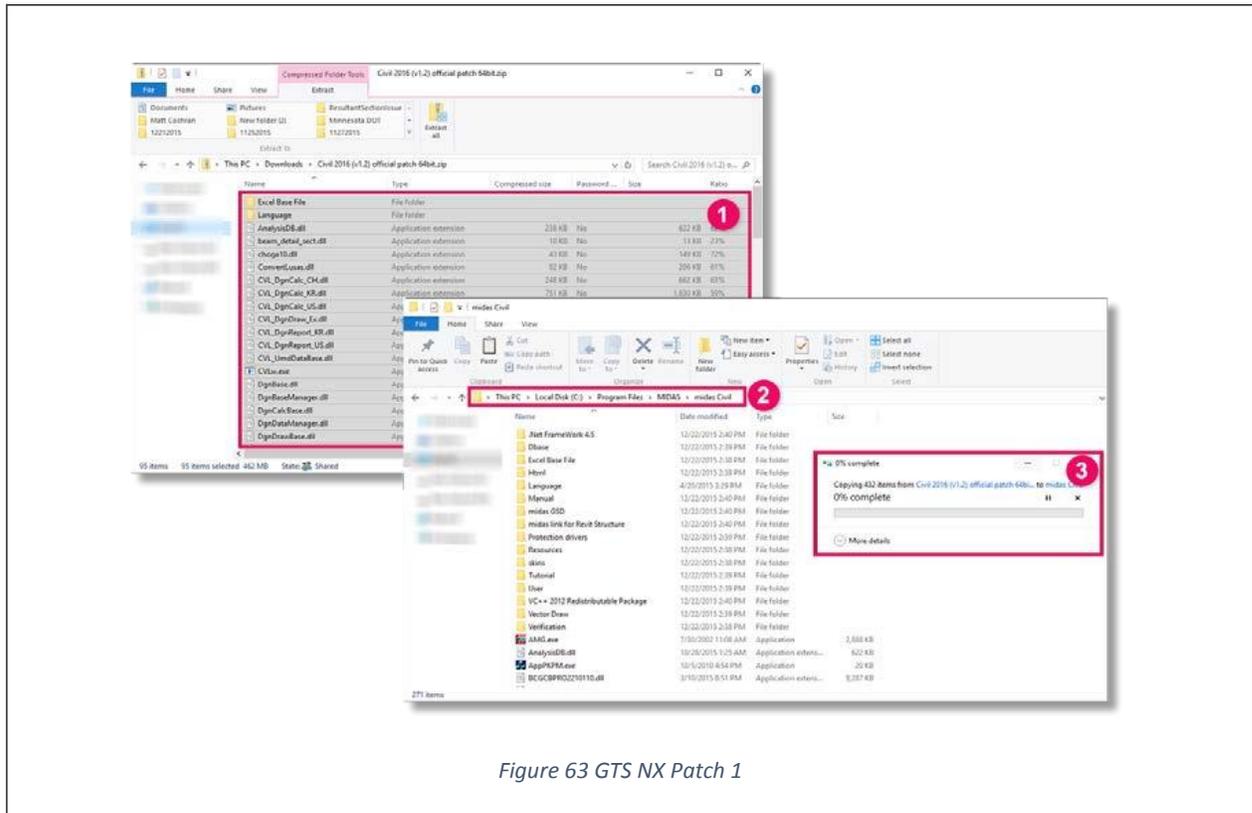


Figure 63 GTS NX Patch 1

1. Copy every files and folders in a downloaded zip file for patch.
2. Go to a folder which GTS NX is installed in, most likely at C: Drive > Program Files > MIDAS folder > midas GTS NX folder (The path can be different depend on where midas program is installed)
3. Paste all of the copied files and folders

1.3.5.3 Download Files

You can download midas GTS NX below.

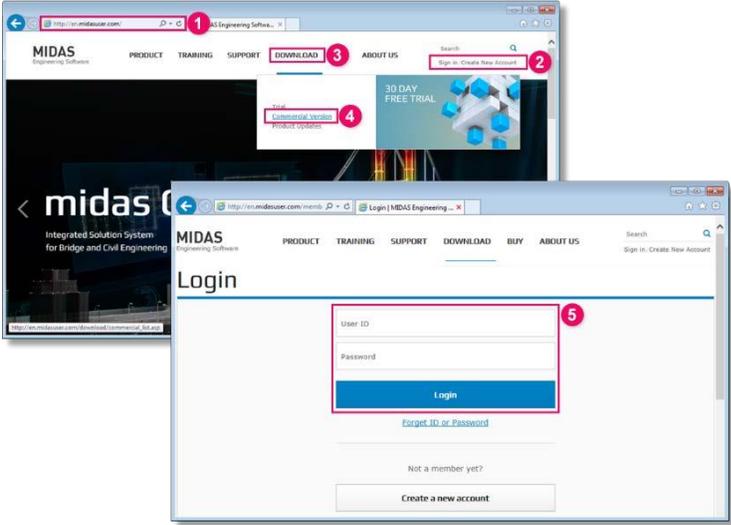
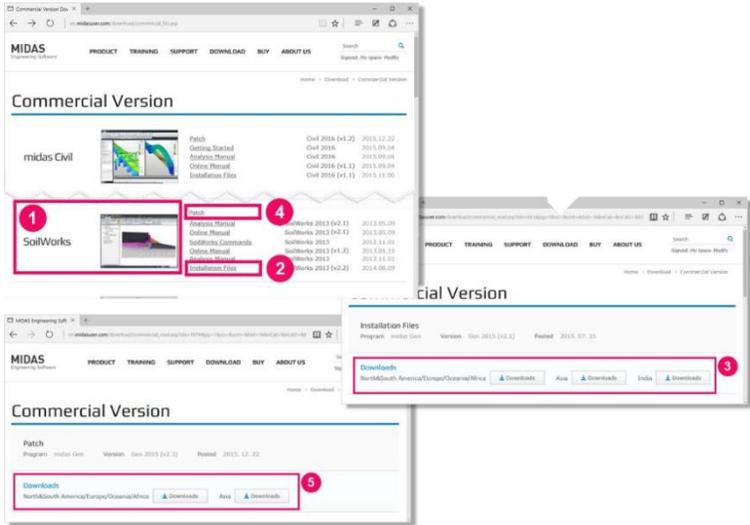
- midas GTS NX ([Click](#))

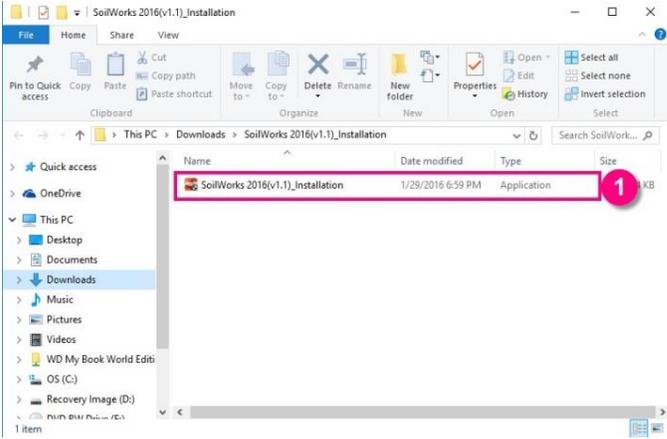
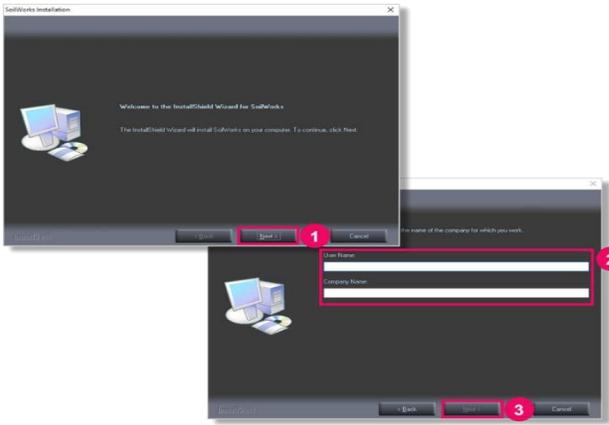
If you want to see an instruction for an Installation, Go to 1.3.5.1 Installation ([Click](#))

1.3.6 SoilWorks

1.3.6.1 Installation

* Before an Installation, please acquire an **administrator right**. If not, an installation couldn't be finished properly.

<p>1. Create ID&P.W</p>	 <p>Figure 64 Soilworks install 1</p> <ol style="list-style-type: none"> Go to [http://en.midasuser.com] Click [New Account and Create ID / Password] (If you are already a MUSS user, you don't need to create new account) Go to [Download] on the top menu Click [Commercial Version] Log in with your Muss ID & Password
<p>2. Download Install Files (1/2)</p>	 <p>Figure 65 Soilworks Install 2</p>

	<ol style="list-style-type: none"> 1. Find midas Soilworks section 2. Click [Installation Files] 3. Click [Downloads] 4. Go back to the previous page and click [Patch] (If there are available patches, please install that. However, It's available depends on what version you have at the moment. Also, If you want to know how to apply a patch, go to 1.3.6.2 (Click)) 5. Click [Downloads]
<p>3. Download Install Files (2/2)</p>	 <p style="text-align: center;"><i>Figure 66 Soilworks Install 3</i></p>
	<ol style="list-style-type: none"> 1. [Save] or [Save As] an installation file 2. [Open folder] 3. Find a downloaded zip file for an installation 4. [Extract] a zip file 5. Double click [SoilWorks_Installation.exe] to start an installation
<p>4. Install midas SoilWorks - step (1/3)</p>	 <p style="text-align: center;"><i>Figure 67 Soilworks Install 4</i></p>
	<ol style="list-style-type: none"> 1. Click [Next] and follow the next step 2. Enter User Name and Company Name 3. Click [Next]

5. Install midas Soilworks - step (2/3)

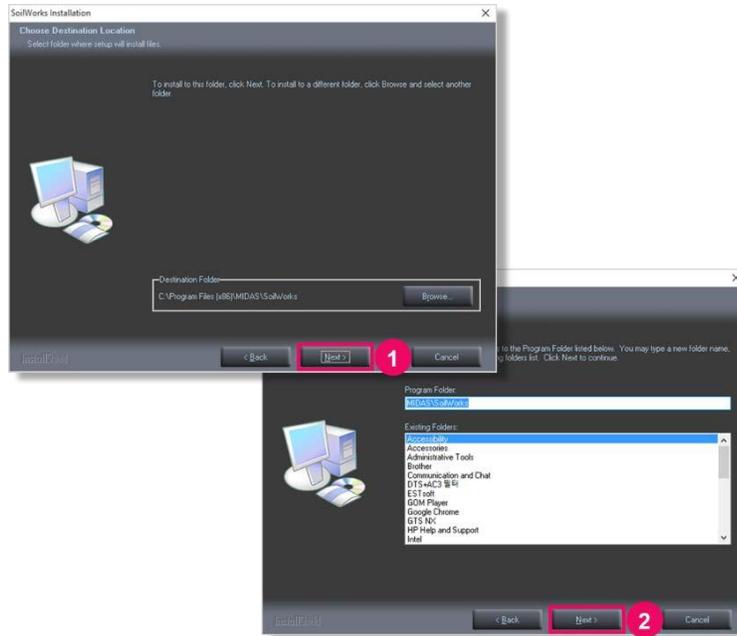


Figure 68 Soilworks Install 5

1. Click [Next] and follow the next step
2. Click [Next]

6. Install midas Soilworks - step (3/3)

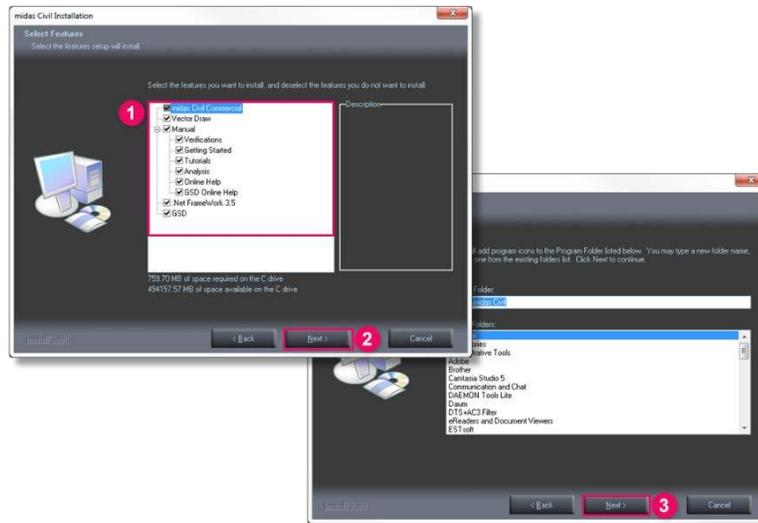


Figure 69 Soilworks Install 6

1. Select features you want to install. It's recommended to select the ones that are selected automatically
2. Click [Next] and follow the next step
3. Click [Next]

7. Install Sentinel Protection Installer

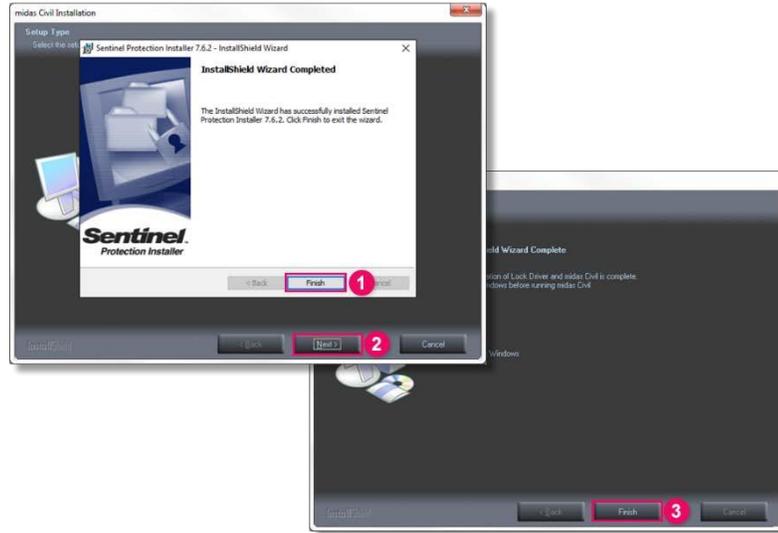


Figure 70 Soilworks Install 7

1. Click [Finish]
2. Click [Next]
3. Click [Finish]

8. Complete the installation

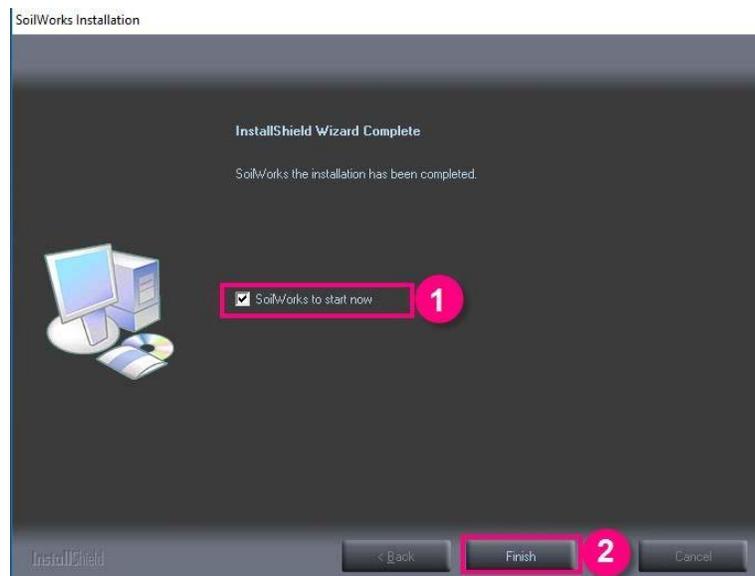


Figure 71 Soilworks Install 8

1. Click [Soilworks to start now]
If you don't want to start the program now, uncheck the box
2. Click [Finish]

* If there are system crashes while installation, Go to 1.4 ([Click](#)) and follow the instructions.

1.3.6.2 Apply a patch

If there is an available patch file, you can apply a patch file by following this instruction.

In additional, you can check whether there is a patch available now or not with the link below.

- Link : http://en.midasuser.com/download/commercial_list.asp

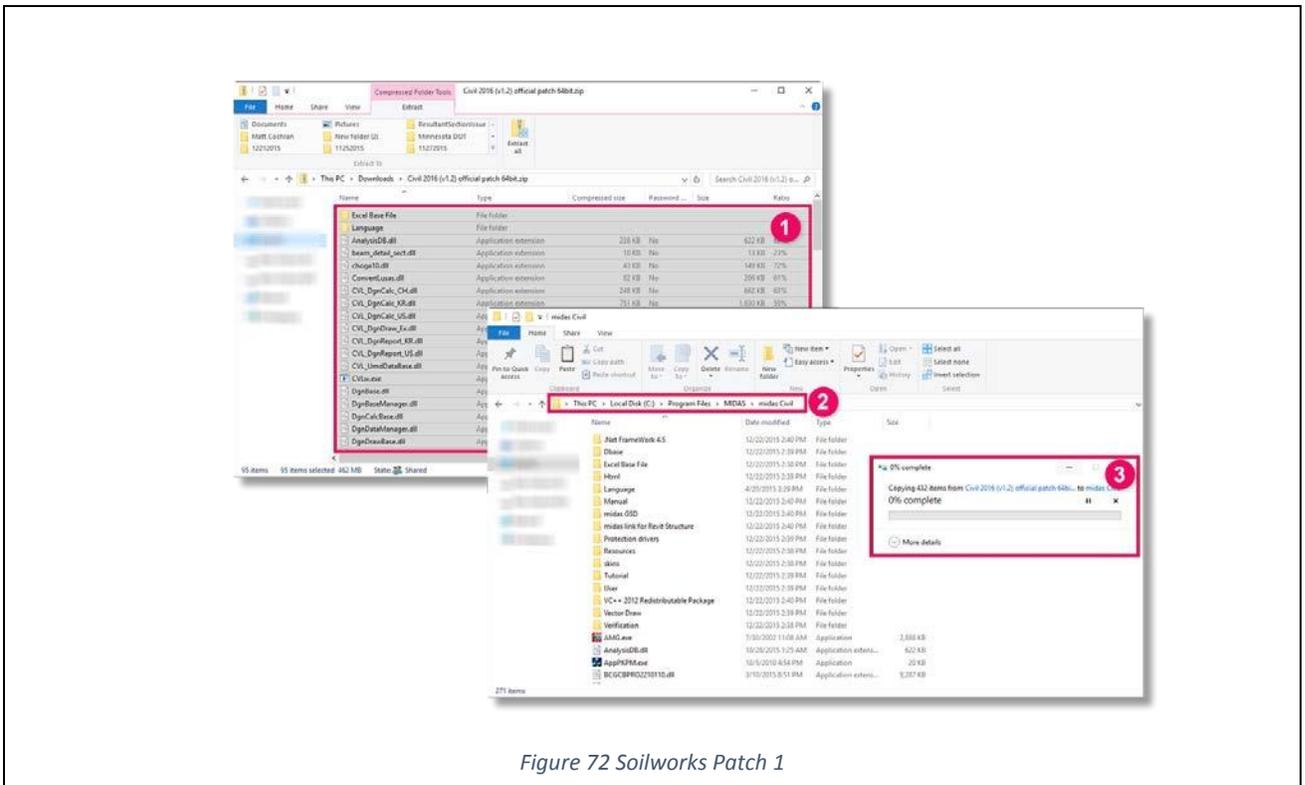


Figure 72 Soilworks Patch 1

1. Copy every files and folders in a downloaded zip file for patch.
2. Go to a folder where midas Soilworks is installed, most likely at C: Drive > Program Files > MIDAS folder > midas Soilworks folder (The path could be different depend on where midas program is installed)
3. Paste all of the copied files and folders

1.3.6.3 Download Files

You can download midas Soilworks below.

- midas Soilworks ([Click](#))

If you want to see an instruction for an Installation, Go to 1.3.6.1 Installation ([Click](#))

1.4 Precaution

If there are program crashes when you install or open a program, please follow the instructions.

1.4.1 Delete Registry

A system crash can occur when previous versions of a program aren't removed well. It's recommended to remove all registry regarding of MIDAS and re-install a program. Please refer to [10. Initialize a registry](#).

1.4.2 Apply AMD patch file

A system crash can occur when your computer has AMD graphic cards. Midas Civil works best with NVIDIA graphic cards. If your computer is using AMD graphic cards, please download these patches in numerical order.

- 1) Download the files in numerical order.
 - AMD Patch Case 1 ([Click](#))
 - AMD Patch Case 2 ([Click](#))
 - AMD Patch Case 3 ([Click](#))
- 2) After downloading the files, unzip and run.
- 3) As soon as you run the file, it will bring up a WindowDos command window, please follow through.

2. License type

2.1 A Web license

2.1.1 What a web license is

A web license is a kind of license types and the main advantages are below :

- 1) A web license is based on the internet. It is available everywhere you want under the condition that there is the internet connection.
- 2) It is more convenient and easier than a Dongle license for Installation because it doesn't require sentinel system Drivers.
- 3) Usage of a web license is recorded in real-time so users can take technical supports promptly when there are problems in regard of using a license.
- 4) A web license is automatically upgraded when new versions are released. Users don't need to update any information for accessing a program.
- 5) There aren't any worries about losing a license.

2.1.2 The way to use

This contents contains a step-by-step guideline for using a license :

- 1) Create an account for using a license – ([Click](#))
- 2) Install a program - ([Click](#))
- Depending on license types (web or dongle), methods of installation are different so please make sure what type of a license you have and then follow matched installation guides.
- 3) Authenticate on a program – ([Click](#))
- 4) Start a program

References

- [1. Installation](#)
- [4. Authentication](#)

2.1.3 Recommended work environment

There are recommended conditions for optimum environment to run midas programs.

- A stable internet access
- [1.1 System Requirements](#)
- [1.2 System Recommendations](#)

2.2 Dongle license

2.2.1 What a Dongle license is

StandAlone is based on personal connection of the USB into user's personal PC and Network is for multiple seats which requires to be connected to server computer.

The main advantages are below :

- 1) The internet access isn't necessary.
- 2) It has a security because nobody uses a license without a physical USB.

2.2.2 The way to use

This contents contains a step-by-step guideline for using a license :

- 1) Create an account for using a license – ([Click](#))
- 2) Install a program - ([Click](#))
 - Depending on license types (web or dongle), methods of installation are different. So, please make sure what type of a license you have and then follow matched installation guides. If you have a dongle license, you need to install Sentinel System Drivers.
- 3) Put a dongle(USB) on a computer or server
- 4) Authenticate on a program – ([Click](#))
 - In regard of checking options in the step 9, it's available for only a web license. If you have a hardware license (USB Dongle), you can skip the step 9.
- 5) Start a program

References

- [1. Installation](#)
- [4. Authentication](#)

2.2.3 Recommended work environment

There are recommended conditions for optimum environment to run midas programs.

- Install Sentinel System Drivers (The latest version)
- [1.1 System requirements](#)
- [1.2 System Recommendations](#)

3. License modules & Options per program

Here is information about what modules are per midas program and what functions each options have.

3.1 How to check a module and options a license has

3.2 .1 For Dongle license users

You can simply see license modules & options information in this chapter and please contact [midas Support](#) if you want to know what options you have or ask additional purchases.

3.1.2 For Web license users

If you want to know what options your license has, you can check that on an Authentication stage. After you select a PID of your license, see the options part below. There are 2 types of options. One is active and another is inactive. You can only use the activated options so please make sure that what options you can use and options you want to use are checked or not before you start to midas programs.

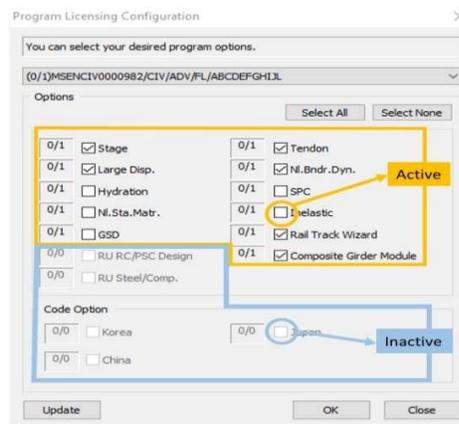


Figure 29 Options 1

3.3 Description of Options

3.3.1 Civil

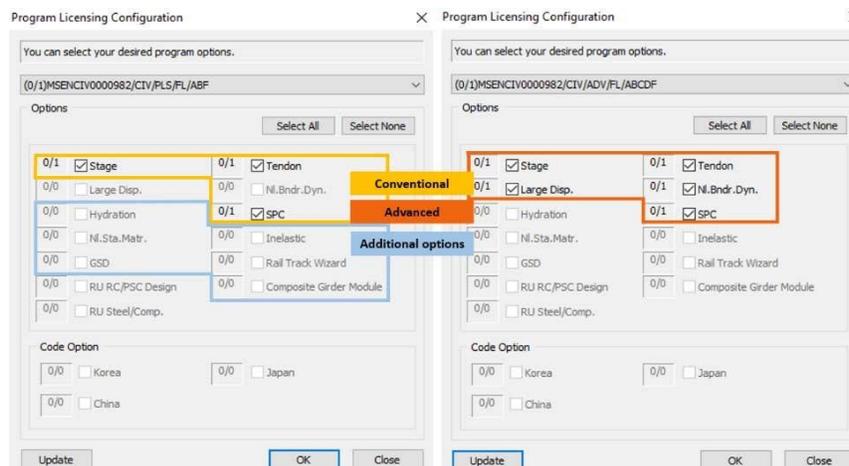


Figure 30 Options Civil

Modules	Options	Descriptions
<p>ventional</p>	<p>Stage, Tendon, SPC</p>	<ol style="list-style-type: none"> 1. Unlimited Nodes (Elements) 2. Static Analysis 3. Dynamic Analysis <ul style="list-style-type: none"> - Eigen (Lanczos) and Ritz vector Analyses - Response Spectrum Analysis - Time History Analysis (Multiple Support Excitation) 4. Vehicle Load Optimization <ul style="list-style-type: none"> - Eurocode 1 - AASHTO LRFD & Standard. Load auto-generation - CAN/CSA-S6 - BS5400 Spec. & BD37/01 - AS5100 - SP 35.13330.2011 - Abnormal Indivisible Load - Influence Line/Surface - Moving Load Tracer & Force Envelopes 5. P-Delta Analysis 6. Wizards (Slab, RC Frame & Culvert auto-generators) 7. Integral Bridge Module (Soil-Structure Interaction) 8. Grillage Model Auto-Generation (Multi-Cell BoxGirders) 9. Transverse Analysis Model Auto-Generation 10. Settlement Analysis 11. Pushover Analysis 12. Section Property Calculator for irregular sections 13. Buckling Analysis 14. Thermal Stress Analysis 15. Automesh for Planar Area (Wood-Armer moments) 16. Composite Bridge Analysis 17. Construction Stage Analysis (up to 10 stages) <ul style="list-style-type: none"> - Creep, Shrinkage & Modulus of Elasticity (AASHTO/Eurocode/CEB-FIP/ACI209/PCA/AS3600/AS/RTA 5100.5) - Tension losses in tendons (Magura / CEB-FIP / European) 18. Design <ul style="list-style-type: none"> - AASHTO LRFD: Prestressed Box Girder / Concrete & Steel - AASHTO LFD & ASD: Concrete & Steel - AISC LRFD & ASD / ACI 318 - CAN/CSA-S6: Prestressed Box Girder / Concrete - Eurocode 2: Prestressed Box Girder / Concrete (Column) - Eurocode 3: Steel Frame - Eurocode 4: Composite Plate Girder / Composite Steel Box Girder / Composite PC Girder 19. PSC Bridge Rating as per AASHTO LRFR 20. Dynamic Report Generation

Advanced	Conventional options, Large Disp, Nll.Bndr.Dyn	<ol style="list-style-type: none"> 1. Includes -Conventional- Version functionality and: 2. Construction Stage Analysis (unlimited number of stages) 3. Post-tension Wizards (FCM, ILM, MSS, FSM & PSCbridge) 4. Large Displacement (Forward/Backward) Analysis <ul style="list-style-type: none"> - Suspension Bridge Wizard - Cable Stayed Bridge Wizard - Cable Tuning 5. Boundary Nonlinear Dynamic Analysis (Gap, Hook, Damper, Isolator, Hysteretic System, etc.)
Additional options	Hydration	Heat of Hydration Analysis for mass concrete <ul style="list-style-type: none"> - Heat Transfer Analysis based on construction stages - Convection, Heat Source, Pipe cooling, etc.
	NI.Sta.Matr.	Material Nonlinear Analysis <ul style="list-style-type: none"> - Truss, Plate, Plane stress, Plane strain, Axisymmetric and Solid - Tresca, von Mises, Mohr-Coulomb and Drucker-Prager - Isotropic, kinematic and mixed hardening
	Inelastic	Inelastic Time History Analysis <ul style="list-style-type: none"> - Beam element - Lumped hinge & Distributed hinge - Automatic calculation of yield strength - Axial load – biaxial moment interaction - Fiber model
	GSD	General Section Design <ul style="list-style-type: none"> - Draw Arbitrary Cross-sections (RC, Steel, Composite) - Capacity Curves (P-M, M-M, 3D) & Capacity Check Ratio (Eurocode) - Moment-Curvature Curves for Different Axial Loads - Stress Contours for Combined Loading
	Rail Track Wizard	Rail Track Analysis <ul style="list-style-type: none"> - Auto-generation wizard of rail track analysis model - Rail track-structure interaction - Temperature, acceleration and braking loads
	Composite Girder Module	AASHTO Steel Composite Design <ul style="list-style-type: none"> -AASHTO LRFD Steel Composite Girder Design -AASHTO LRFR Steel Composite Girder Load Rating

3.3.2 FEA

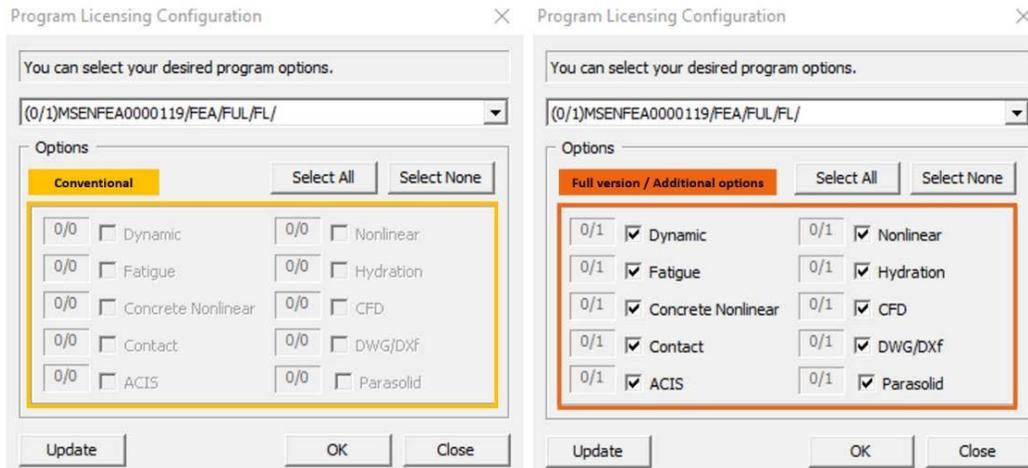


Figure 31 Options FEA

Modules	Options	Descriptions
<p>Conventional</p>	<p>(None)</p>	<ol style="list-style-type: none"> 1. Element Library <ul style="list-style-type: none"> - Line Type: Truss/Beam/Tension Only/Compression Only - Plane Type: Flat Shells/Plane Stress/Plane Strain/Axisymmetry - Solid Type: Tetrahedron/Wedge/Hexahedron - Embedded Reinforcement Element - Linear Interface Element (Elastic & Rigid links) 2. DXF 2D & 3D (Wireframe), STEP & IGES Import options 3. Data exchange between FEA and DIANA 4. Geometry Modeling including Curve, Surface, Solid and Advanced Modeling 5. Mesh Generation including Automatic & UserControlled 6. Linear Static Analysis 7. Construction Stage analysis 8. Buckling Analysis 9. Heat Transfer 10. Creep and shrinkage (Including Ref. Codes) 11. Post-processing <ul style="list-style-type: none"> - Contour and Iso-surface colour Plots, Diagram and VectorPlots - Clipping, Slicing, Partition Visualization, Animations and Flying View - Numerical Result Probes, Tags and Tables

Additional options	Dynamic	<ol style="list-style-type: none"> 1. Linear Transient Analysis 2. Modal and Spectrum Response Analyses
	Nonlinear	<ol style="list-style-type: none"> 1. Geometrical Nonlinear Analysis 2. Plasticity Models (von Mises & Tresca) 3. Hardening behaviours: isotropic
	Fatigue	<ol style="list-style-type: none"> 1. Goodman & Gerber criteria 2. Rainflow Counting & Mean Stress Correction 3. Life Cycle and Damage Results
	Hydration	<ol style="list-style-type: none"> 1. Parametric Study Wizard for Dimension/Material /Construction Stage Variation
	Concrete Nonlinear	<ol style="list-style-type: none"> 1. Total Strain Crack models 2. Nonlinear Interface Material Models <ul style="list-style-type: none"> - Discrete Crack, Dilatancy Crack, Bond Slip, Coulomb friction and Combined Cracking-Shearing-Crushing 3. Plasticity Models (von Mises, Tresca, Mohr-Coulomb & Drucker-Prager)
	CFD	Fluid Dynamic Analysis <ul style="list-style-type: none"> - 2D Computational Fluid Dynamic Analysis
	Contact	Static Contact Analysis <ul style="list-style-type: none"> - 2D Computational Fluid Dynamic Analysis
Full version	All the functionality of midas FEA Conventional plus all options included	

3.3.3 Gen

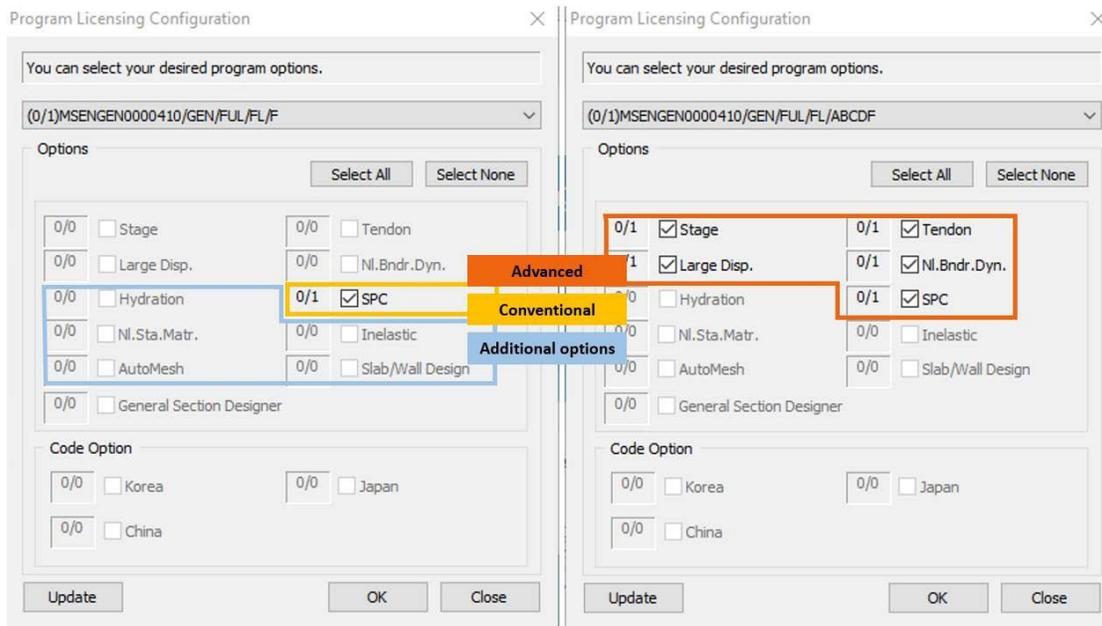


Figure 32 Options Gen

Modules	Options	Descriptions
Conventional	SPC	<ol style="list-style-type: none"> 1. Unlimited Nodes (Elements) 2. Static Analysis 3. Dynamic Analysis <ul style="list-style-type: none"> - Eigen (Lanczos) and Ritz vector Analyses - Response Spectrum Analysis - Time History Analysis 4. Pushover Analysis 5. P-Delta Analysis 6. Buckling Analysis 7. Thermal Stress Analysis 8. Moving Load Analysis 9. Masonry Wall Analysis (Linear/Nonlinear) 10. Design (Steel, Concrete & SRC) <ul style="list-style-type: none"> - AISC (LRFD & ASD), CSA S16.1, BS 5950 & Eurocode3 - ACI 318, CSA-A23.3, BS 8110 & Eurocode2 11. Section Property Calculator for irregular sections
Advanced	Stage, Tendon, Large Disp., NI.Bndr.Dyn, SPC	<ol style="list-style-type: none"> 1. Includes -Plus- Version functionality and: 2. Construction Stage Analysis (Time-dependent) <ul style="list-style-type: none"> - Creep, Shrinkage & Mod. of Elasticity - Tension losses in tendons

		<ul style="list-style-type: none"> - Column Shortening - Construction Stage Wizard <p>3. Large Displacement Analysis (Cable structures)</p> <p>4. Post-tensioning & Prestressing</p> <p>5. Boundary Nonlinear Dynamic Analysis (Gap, Hook, Damper, Isolator, Hysteretic System, etc.)</p>
Additional options	Hydration	<p>Heat of Hydration Analysis for Mass Concrete</p> <ul style="list-style-type: none"> - Heat Transfer Analysis based on construction stages - Convection, Heat Source, Pipe cooling, etc.
	Nl.Sta.Matr.	<p>Material Nonlinear Analysis</p> <ul style="list-style-type: none"> - Truss, Plate, Plane stress, Plane strain, Axisymmetric and Solid - Tresca, von Mises, Mohr-Coulomb and Drucker-Prager - Isotropic, kinematic and mixed hardening
	Inelastic	<p>Inelastic Time History Analysis</p> <ul style="list-style-type: none"> - Beam element - Lumped hinge & Distributed hinge - Automatic calculation of yield strength - Axial load – biaxial moment interaction - Fiber model
	AutoMesh	<p>Automatic Mesh Generator for Plane Wall and Slabs</p> <ul style="list-style-type: none"> - Planar Mesh Generation for 2D Elements (Plate, Plane Stress, Plane Strain) - Automesh Planar Area (Automatic consideration of internal columns and walls) - Mapped Mesh Generation Using 4 Nodes
	Slab/Wall Design	<p>Slab & Meshed Wall Design</p> <ul style="list-style-type: none"> - Flexural design (Wood-Armer moment) - Punching shear check - Serviceability check (Stress, Crack width, deflection)
	General Section Design	<p>GSD (General Section Design)</p> <ul style="list-style-type: none"> - Draw Arbitrary Cross-sections (RC, Steel, Composite) - Capacity Curves (P-M, M-M, 3D) & Capacity Check Ratio - Moment-Curvature Curves for Different Axial Loads - Stress Contours for Combined Loading

3.3.4 Design+

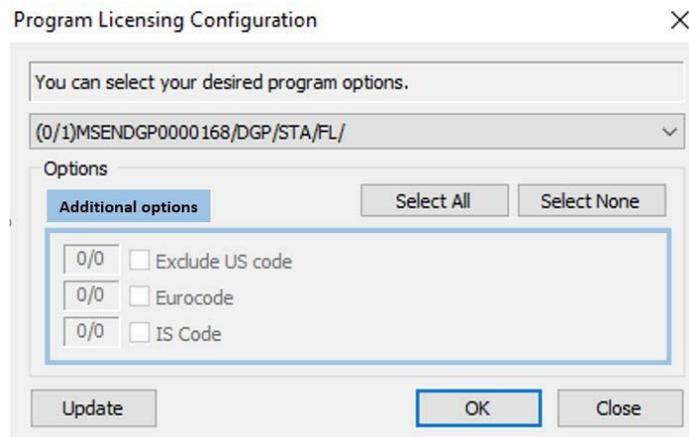


Figure 33 Options Design+

Modules	Options	Descriptions
Conventional	USCode	<ol style="list-style-type: none"> 1. Concrete Design : ACI31-11, 08 <ul style="list-style-type: none"> - Column, General Column - Beam, Beam Long Term Deflection - Slab, Slab Long Term Deflection - Shear Wall, Combined Wall, Basement Wall, Retaining Wall - Isolated Footing, Wall Footing, Combined Footing - Buttress, Stair & Corbel & Bracket 2. Steel Design : AISC-LRFD10, 05 / AISC-ASD10, 05 <ul style="list-style-type: none"> - Column, Beam & Base Plate - Crane Girder, Bolt Connection - Web Opening, Purlin & Girth - Steel Stair 3. SRC Design : AISC-LRFD10, 05 <ul style="list-style-type: none"> - Composite Beam
Additional options	Eurocode	<ol style="list-style-type: none"> 1. Concrete Design : Eurocode 2-1-1:04 <ul style="list-style-type: none"> - Isolated Footing - Strip Footing, - Combined Wall - General Column - Basement Wall (Available in Dec 2016) 2. Steel Design : Eurocode 3-1-1:2005 <ul style="list-style-type: none"> - Bolt Connection - Base Plate - Weld Connection (Available in Dec 2016) 3. SRC Design : Eurocode 4-1-1:2004 <ul style="list-style-type: none"> - Composite Beam & Column

3.3.5 GTS NX

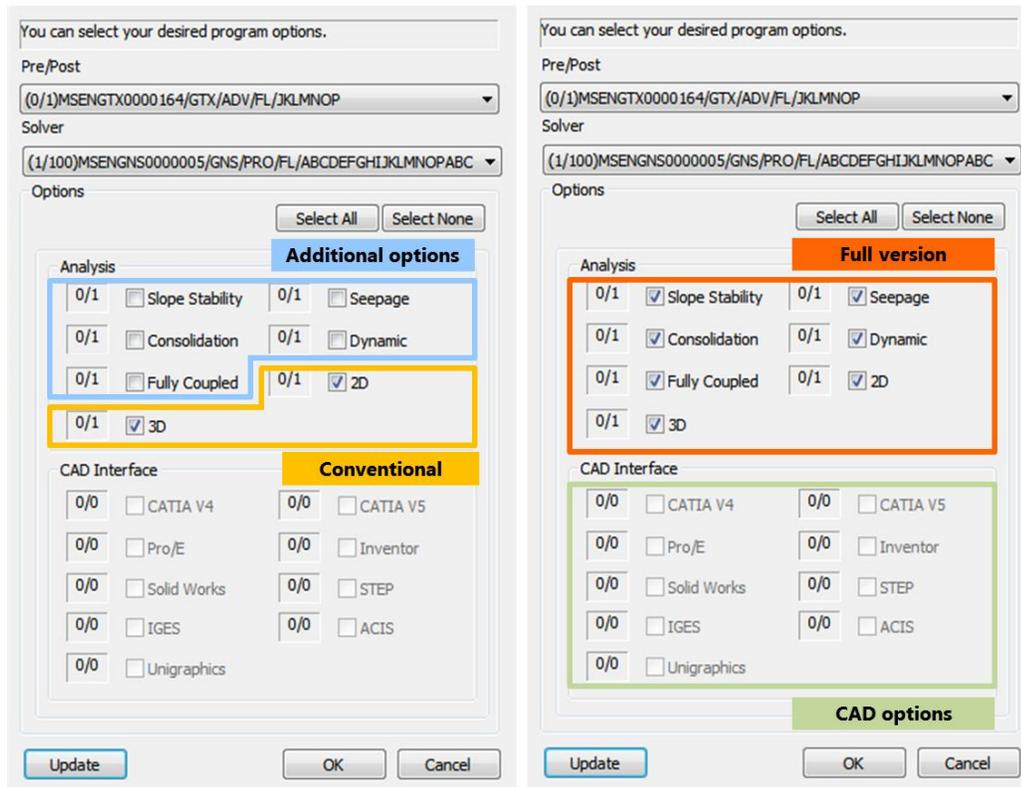


Figure 34 Options GTSNX

Modules	Options	Descriptions
Conventional	2D, 3D	<ol style="list-style-type: none"> Geometry Modeller <ul style="list-style-type: none"> - Import CAD File (Parasolid, DXF, DWG, MXT(midas GEN/CIVIL)) - Point/Curve/Surface/Solid/Advanced Modelling - Bedding Plane Wizard (3D Ground Stratigraphy from Borehole Data) - Terrain Geometry Maker (TGM) Element Library <ul style="list-style-type: none"> - 1D Type (Truss/Embedded Truss/Beam/Embedded Beam/Pile/Geogrid) - 2D Type (Shell/Plane Stress/Plane Strain/Geogrid/Gauging Shell /Axisymmetric) - 3D Type (Tetrahedron/Pyramid/Wedge/Hexahedron) - Other Type (Free Field/Spring/Interface/Shell Interface/Link /Pile Tip/Inelastic Hinge) - General Contact Element

		<p>3. Mesh Generation (Auto/Map/Hybrid/Protrude Mesh Generation)</p> <p>4. Material Models</p> <ul style="list-style-type: none"> - Linear Elastic - Orthotropic (Transversely Isotropic/Jointed Rock Mass/2D Orthotropic) - Elasto-plastic (Tresca/von Mises-Nonlinear/Mohr-Coulomb /Drucker-Prager/Hoek-Brown/Modified Cam-Clay/Jardine(London clay)/Modified Mohr-Coulomb/Soft Soil Creep) Generalized Hoek-Brown/Modified UBCSAND/Sekiguchi-Ohta (Inviscid/Viscid) - Nonlinear Elastic (Hyperbolic(Duncan-Chang)/D-Min) - Strain Softening - User supplied material for Plane Strain, Shell Joints and Volumetric Elements - Elastic/Coulomb Friction Interface - Hysteresis Model (Modified Ramberg-Osgood/Modified Hardin-Drnevich) <p>5. Analysis Capabilities (64bit/GPU Solver, Batch Analysis and Parametric Analysis)</p> <ul style="list-style-type: none"> - Static Analysis (Linear, Nonlinear) - Construction Stage Analysis (Drained/Undrained, Concrete Creep & Shrinkage) <p>6. Wizard (Tunnel/Anchor Modelling Wizard/Artificial Earthquake Generator)</p> <p>7. Post-Processing</p> <ul style="list-style-type: none"> - Contour/Vector/Diagram Plots - Advanced Features z (Probe/Multi Step Iso Surface/Extract/Cutting Diagram/Others) - 3D Dynamic PDF Report
<p>Additional options</p>	<p>Slope Stability</p>	<p>Slope Stability Analysis</p> <ul style="list-style-type: none"> - Strength Reduction Method (SRM) - Stress Analysis Method (SAM) - Construction Stage Analysis
	<p>Seepage</p>	<p>Seepage Analysis</p> <ul style="list-style-type: none"> - Steady-State Analysis - Transient Analysis - Sequential Seepage-Stress Analysis - Construction Stage Analysis

	Consolidation	<p>Consolidation Analysis</p> <ul style="list-style-type: none"> - Semi-coupled Seepage-Stress Analysis (Static Boundary Conditions) - Construction Stage Analysis
	Dynamic	<p>Dynamic Analysis</p> <ul style="list-style-type: none"> - 1D Ground Response Analysis
		<ul style="list-style-type: none"> - 2D Equivalent Linear Analysis - Eigenvalue Analysis - Response Spectrum Analysis - Time History Analysis (Linear, Nonlinear) - Nonlinear Time History Analysis with SRM - Construction Stage Analysis : Stress-Nonlinear Time History Analysis
Fully Coupled	<p>Fully Coupled Analysis</p> <ul style="list-style-type: none"> - Fully Coupled Stress-Seepage Analysis (Transient Boundary Conditions) - Construction Stage Analysis 	
Full version	All the functionality of midas GTSNX Conventional plus all additional options included.	

3.3.6 Soilworks

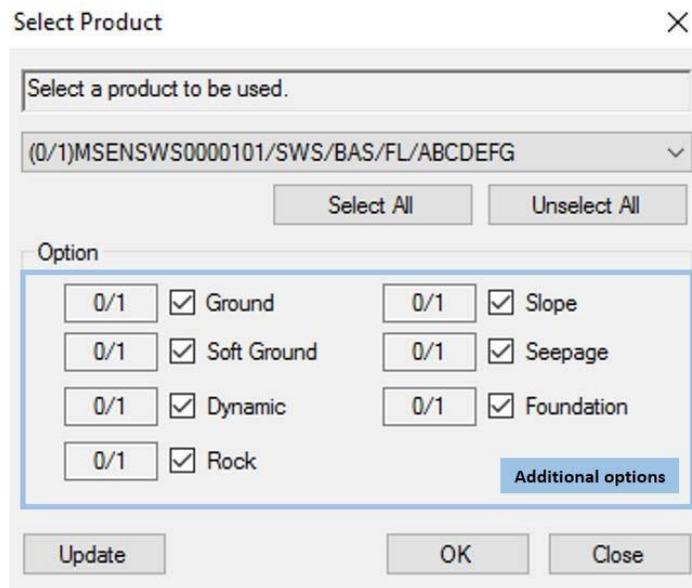


Figure 35 Option Soilworks

Modules	Options	Descriptions
Options	Ground	Ground Stress and Tunnel Analysis - CAD Import Facilities - Construction Stage Analysis (FEM) - Nonlinear Static Analysis (FEM)
		- Advanced Material Models (Elastic/Mohr-Coulomb/Hoek-Brown/Duncan-Chang) - Analysis Coupled with Seepage Analysis Results - Convenient Parametric Analysis through Change in K_0 - Lining Analysis Reflecting Non-Prismatic Tapered Sections - Report Generator
	Slope	Slope Stability Analysis - Limit Equilibrium Method (considering Construction Stage) - Probability and Sensitivity Analysis for Limit Equilibrium Method - Optimization Method in Limit Equilibrium Method - Strength Reduction Method (considering Construction Stage) - Stress Analysis Method (considering Construction Stage) - Simultaneous Analyses for Dry/Rainy Seasons and in Earthquake Conditions - Circular/Non-Circular Arc Sliding Surface and Automatic Failure Surface - LEM Analysis Reflecting the Intensity of Precipitation or Seepage Effects - LEM Analysis Reflecting the Increase in Strength due to 1D Consolidation - Printing Input Data and Results File - Practical Reinforcement Materials (Nail/Pile/Anchor/Strip/Strut)
Soft Ground	Consolidation Analysis - Consolidation (FEM, considering Construction Stage) - 1-D Consolidation Theory Analysis - Soil Replacement Method in 1D Consolidation Analysis - Advanced Soft Ground Material Models (Modified Cam Clay, Sekiguchi-Ohta) - Supporting Practice Oriented Drainage (PBD/SCP/GCP/SD/Pack Drain/CD/Fiber) - Parametric Analysis for Drainage Types and Spacing - Parametric Analysis for Preloading Heights - Checking Limit Embankment Heights Reflecting the Increase in Strength - Calculation of an Immediate Settlement of Soft Sandy Soils	

	Seepage	<p>Seepage Analysis</p> <ul style="list-style-type: none"> - Steady State Analysis (considering Construction Stage) - Transient Analysis (considering Construction Stage) - Infinite Boundary Element - Fully Coupled Flow-Deformation Analyses - Mechanical Behaviour of Partially Saturated Soils - Various Permeability Coefficient Functions & Function Property Curves - Reflection of Upward/Downward Seepage Forces - Slope Stability Analysis Coupled with Pore Water Pressure & Effective Stress
	Dynamic	<p>Dynamic Analysis</p> <ul style="list-style-type: none"> - 1-D Ground Response Analysis(FFA) - 2-D Equivalent Linear(SSl) Analysis - Time History(Linear) Analysis - Response Spectrum Analysis - Eigenvalue Analysis - Auto-Generation of Response Spectrums - Built-in Database of Worldwide Earthquake Records - Auto-Generation of Seismic Waves
	Foundation	<p>Pile Foundation Analysis</p> <ul style="list-style-type: none"> - Combined Lateral, Axial and Bending Loaded Piles (p-y Nonlinear Analysis) - Single and Two/Three-Dimensional Groups of Piles (p-y Nonlinear Analysis) - Settlement Checks for Various Foundation Types & Sizes - Analysis Reflecting Pile Head Conditions(Fixed/Hinged) - Preliminary Analysis Using the Ground and Structural Material DB and Section DB
	Rock	<p>Stereo Net/LEM Analysis & Design</p> <ul style="list-style-type: none"> - Stereo Net Analysis / LEM Analysis - Auto-search for Failure Zone of StereoNet - Slope Modeling Wizard - Check roughness & filling between joints - Automatic arrangement for Reinforcements - Export StereoNet Results to LEM Analysis - Report Generator
Full version	All the functionality of midas Soilworks options included.	

4. Authentication

There are step by step instructions for authentications per midas program. Please find the matched instructions for programs you use and follow that.

* If there are any error messages while authentication, please refer to the contents below to solve it.

References

- [6. Real-time usage](#)
- [7. Version](#)
- [9. Error](#)
- [10. Initialize a registry](#)

4.1 Civil

4.1.1A Web license

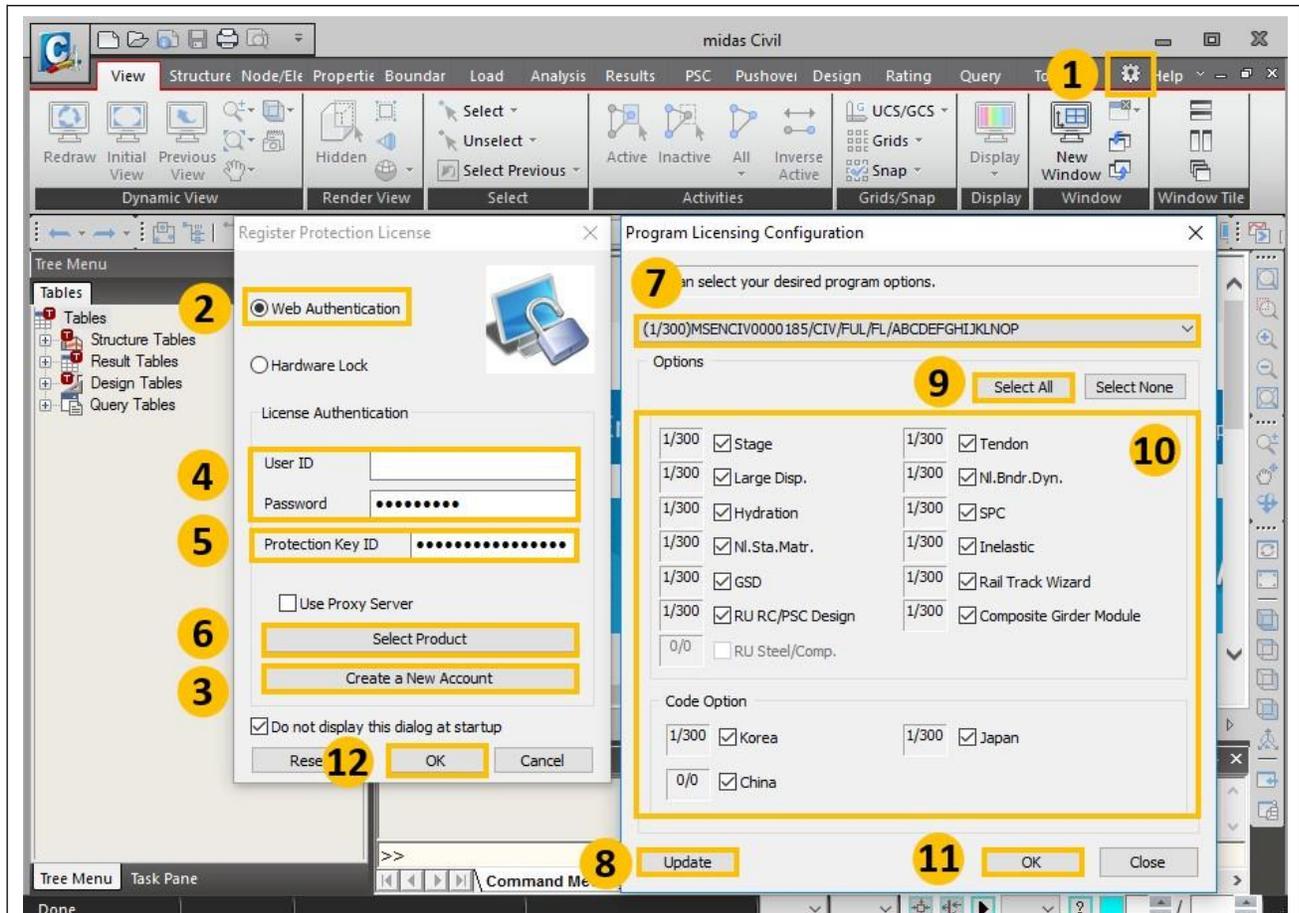


Figure 73 Civil authenticate 1

Guide steps	1. Click the [Register Protection Key] icon.
-------------	--

2. In the pop-up window, select [Web Authentication]
3. If you don't have an account for step 4, Select [Create a new account]
If you already have an account, Go to step 4
4. Enter your User ID & Password
5. Enter a Protection key ID
- It has 16 characters and it means PKID
6. Click [Select Product]
7. Select a correct PID
- Please make sure that a PID is matched a PKID you entered in step 5
8. Click [Update]
9. Click [Select All] to make sure every options are checked on or desired module options
10. Click [OK]
11. Click [OK] to complete registering a protection key
12. Click [OK] to start a program

4.1.2 A Dongle license

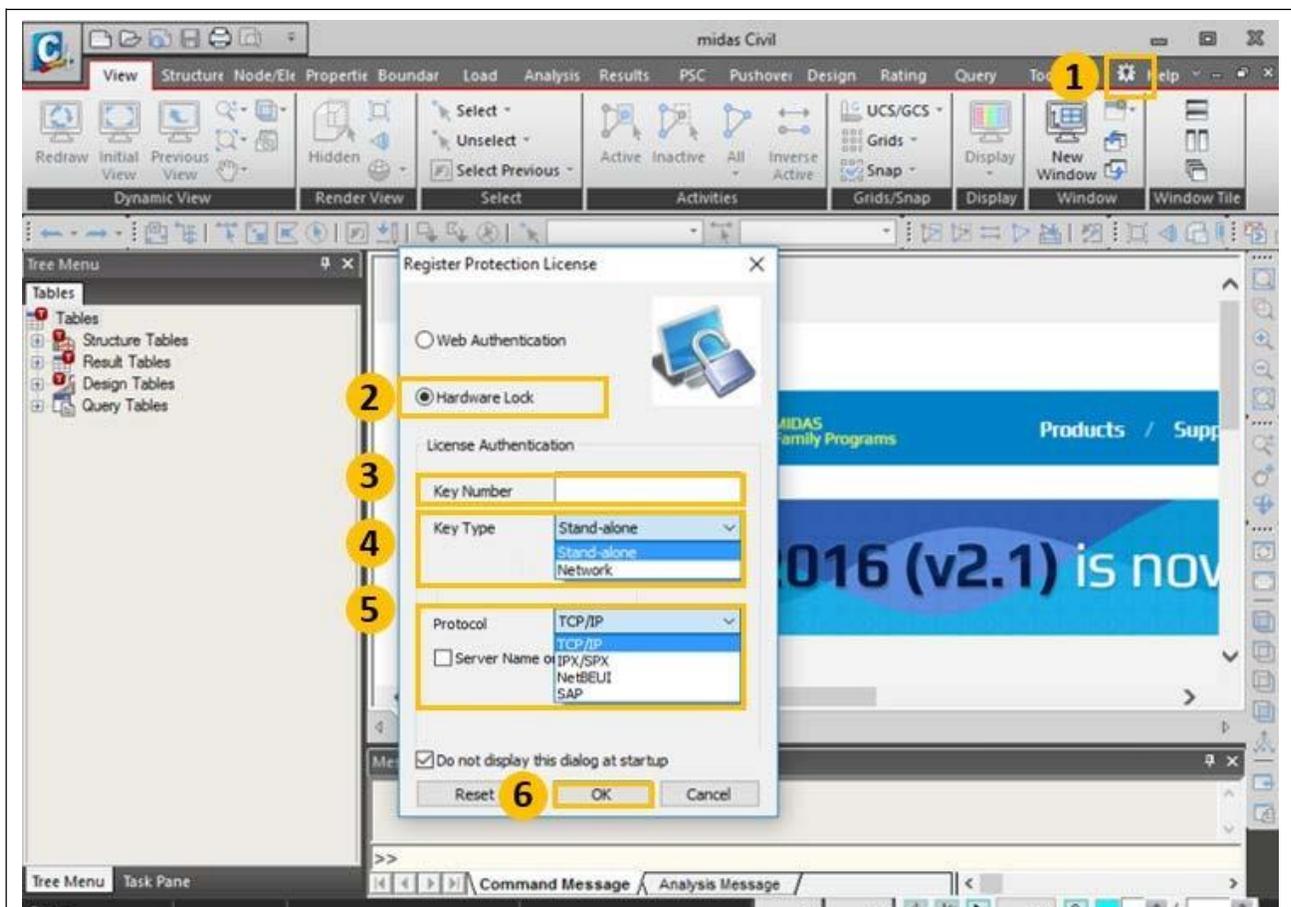


Figure 74 Civil authenticate 2

- | | |
|-------------|---|
| Guide steps | 1. Click the [Register Protection Key] icon |
|-------------|---|

2. In the pop-up window, select [Hardware Lock]
3. Enter a Protection key ID in [Key Number]
 - It has 16 characters and it means PKID
4. Select a correct Key Type
 - If dongle number starts with "U001", Select [Stand-alone] and then go to step 6
 - If not, Select [Network] and then go to step 5
5. For the [Network] type, Select a proper [Protocol] type and enter the [Server Name or IP Address] if necessary
 - For more details about the Network license set up, please ask IT Department in your office.
 - * Reference 4.7 Set up a server for a network dongle ([Click](#))
6. Click [OK] to start a program

4.2 FEA

4.2.1 Web license

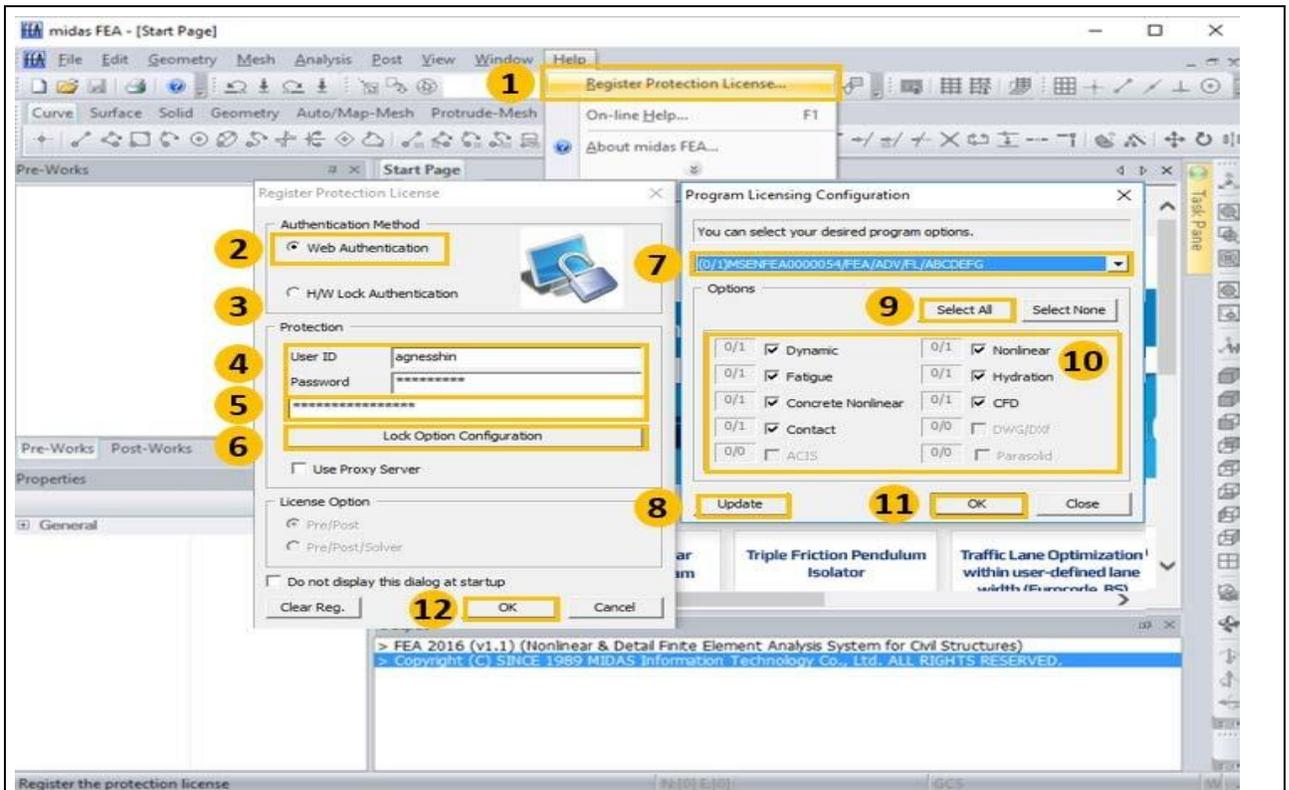


Figure 75 FEA authenticate 1

Guide Step

1. Go to the [Help] tab and click [Register Protection Key]
2. In the pop-up window, select [Web Authentication]
3. If you don't have an account for step 4, Select [Create a new account] on the ([Here](#)) if you already have an account, Go to step 4
4. Enter User ID & Password
5. Enter a Protection key ID
 - It has 16 characters and it means PKID
6. Click [Select Product]
7. Select a correct PID
 - Please make sure that a PID is matched a PKID you entered in step 5
8. Click [Update]
9. Click [Select All] to make sure every options are checked on or desired module options
10. Click [OK]
11. Click [OK] to complete registering a protection key
12. Click [OK] to start a program

4.2.2 Dongle license

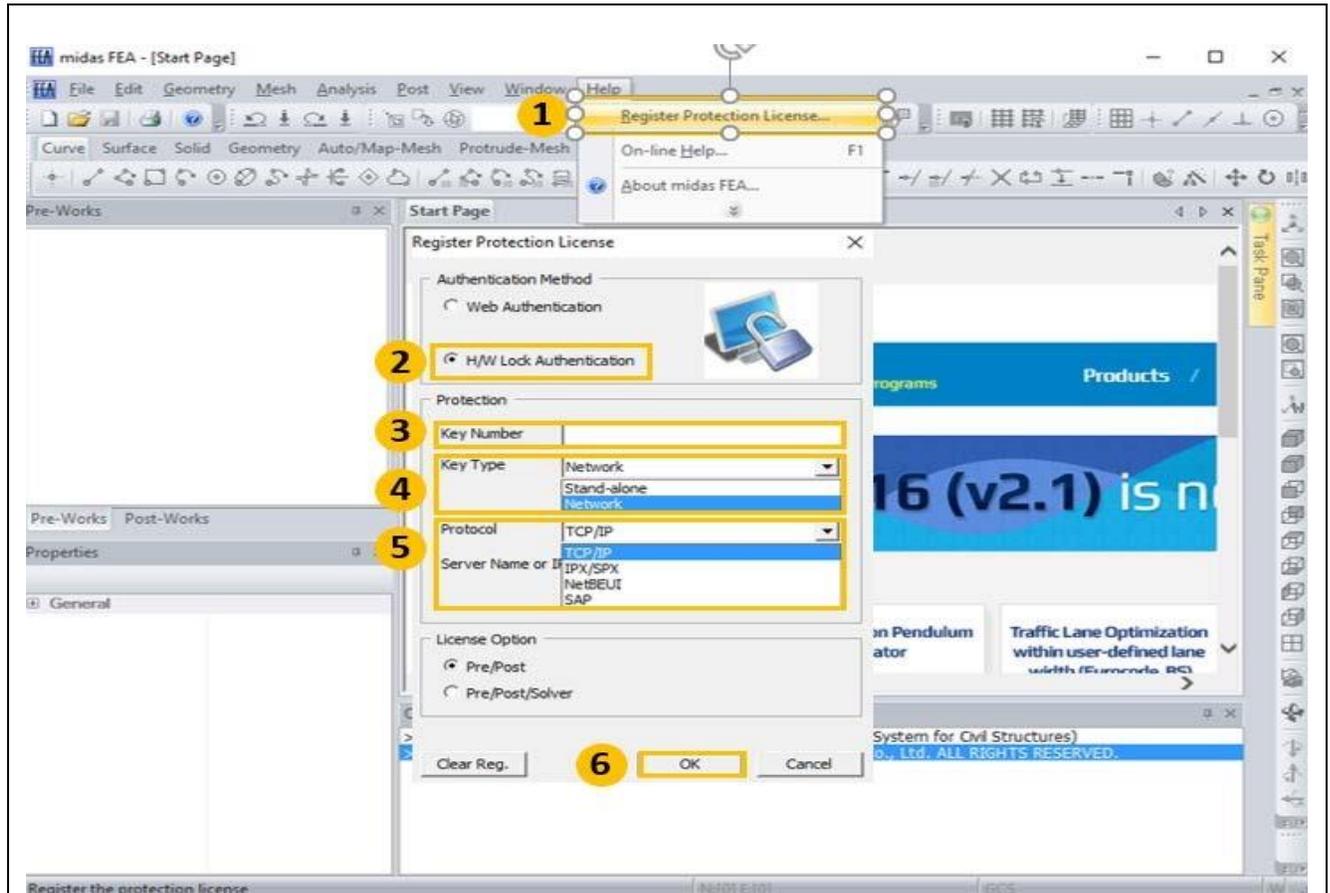


Figure 76 FEA authenticate 2

Guide step

1. Go to [Help]tab and Click [Register Protection License]
2. In the pop-up window, select [H/W Lock Authentication]
3. Enter a Protection key ID in [Key Number]
 - It has 16 characters and it means PKID
4. Select a correct Key Type
 - If dongle number starts with "U001", Select [Stand-alone] and then go to step 6
 - If not, Select [Network] and then go to step 5
5. For the [Network] type, Select a proper [Protocol] type and enter the [Server Name or IP Address] if necessary
 - For more details about the Network license set up, please ask IT Department in your office.
 - * Reference 4.7 Set up a server for a network dongle ([Click](#))
6. Click [OK] to start a program

4.3 Gen

4.3.1 Web license

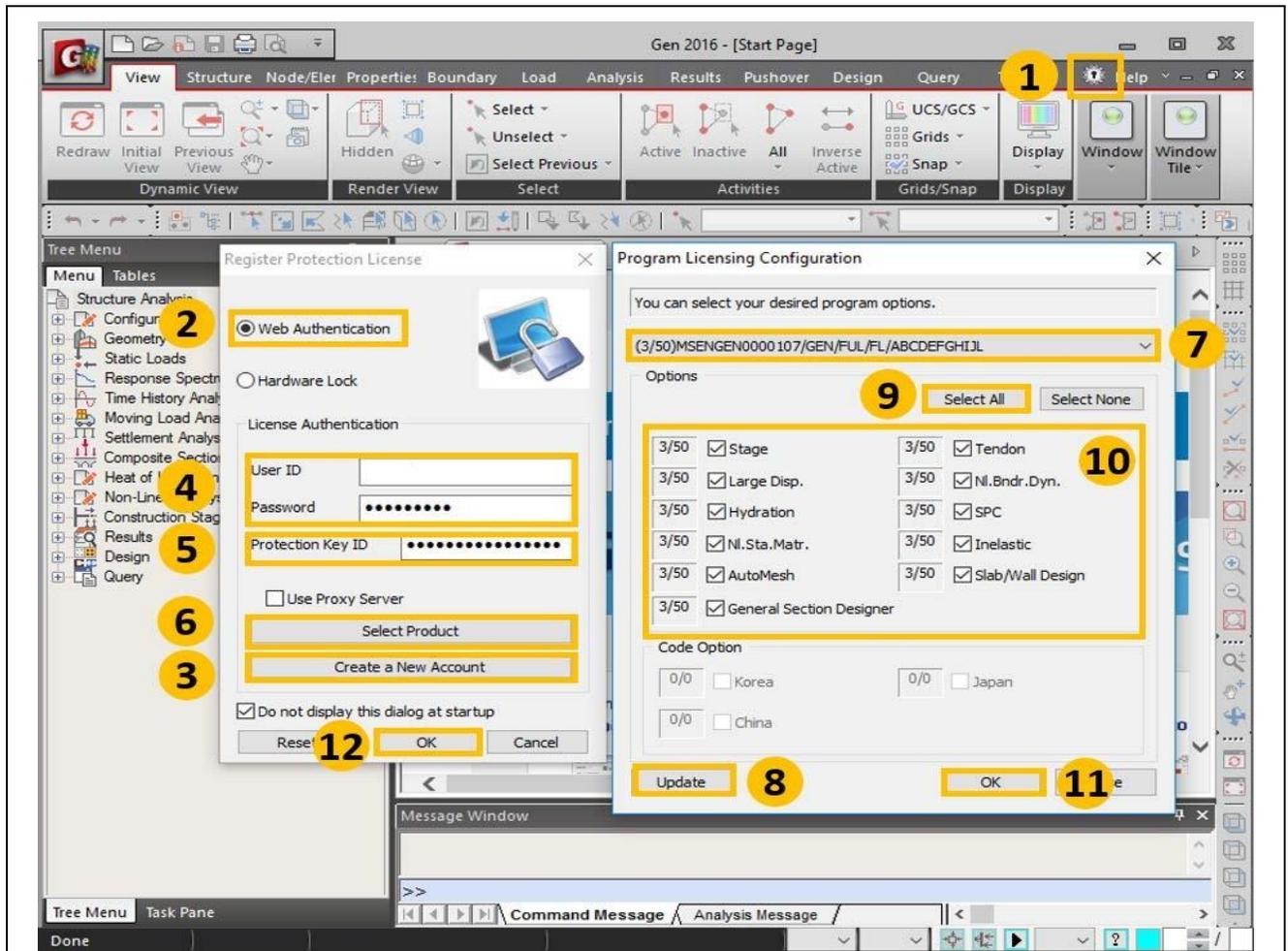


Figure 77 Gen authenticate 1

Guide step

1. Click [Register Protection Key] icon.
2. In the pop-up window, select [Web Authentication]
3. If you don't have an account for step 4, Select [Create a new account] if you already have an account, Go to step 4
4. Enter an User ID & Password
5. Enter a Protection key ID
 - It has 16 characters and it means PKID
6. Click [Select Product]
7. Select a correct PID
 - Please make sure that a PID is matched a PKID you entered in step 5
8. Click [Update]
9. Click [Select All] to make sure every options are checked on or desired module options
10. Check whether options you want to use are selected or not once again.
11. Click [OK] to complete registering the protection key
12. Click [OK] to start a program

4.3.2 Dongle license

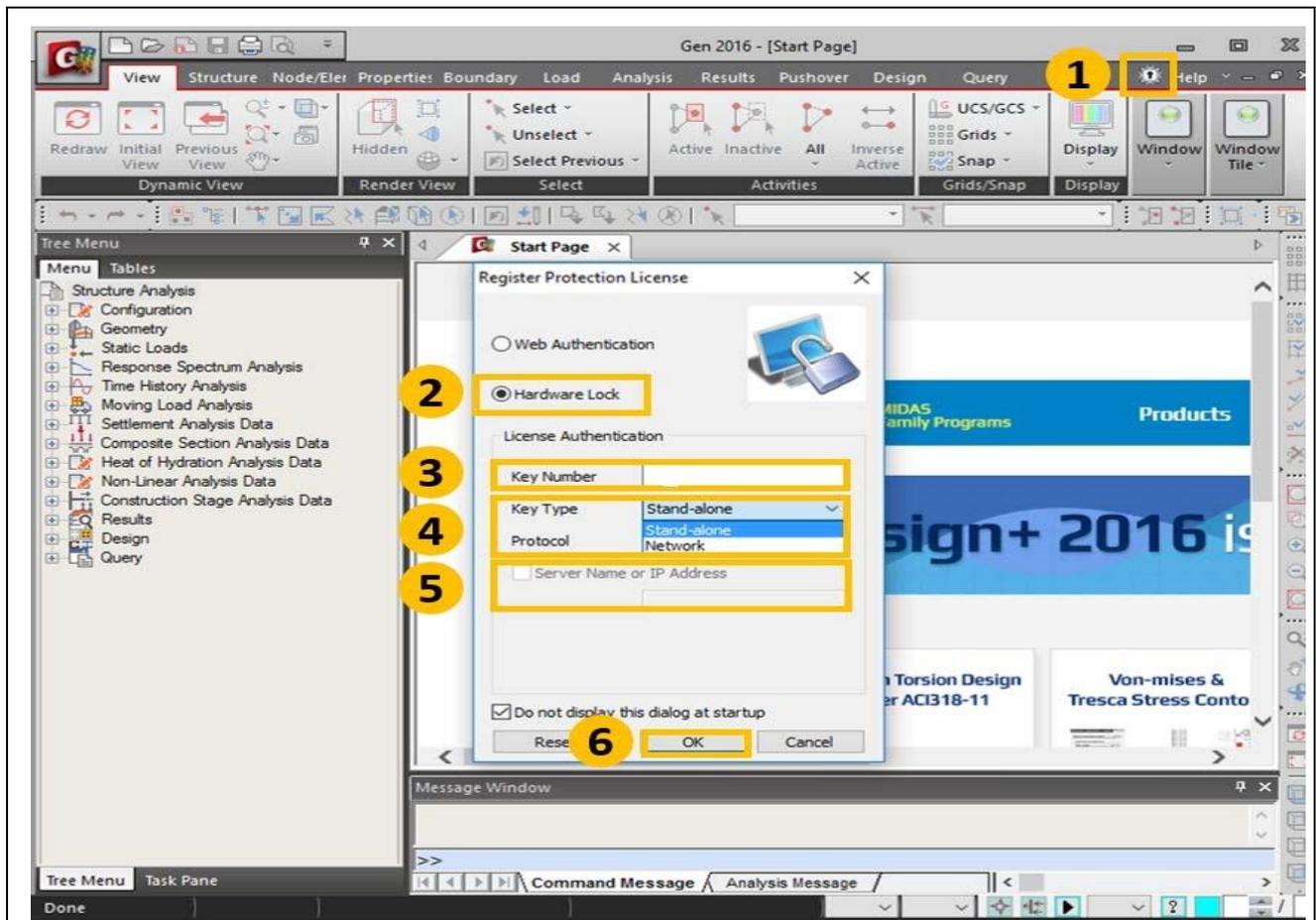


Figure 78 Gen authenticate 2

Guide step

1. Click the [Register Protection Key] icon.
2. In the pop-up window, select [Hardware Lock]
3. Enter a Protection key ID in [Key Number]
 - It has 16 characters and it means PKID
4. Select a correct Key Type
 - If dongle number starts with "U001", Select [Stand-alone] and then go to step 6
 - If not, Select [Network] and then go to step 5
5. For the [Network] type, Select proper [Protocol] type and enter the [Server Name or IP Address] if necessary
 - For more details about the Network license set up, please ask your IT Department.
 - * Reference 4.7 Set up a server for network dongle ([Click](#))
6. Click [OK] to start a program

4.4 Design+

4.4.1 Web license

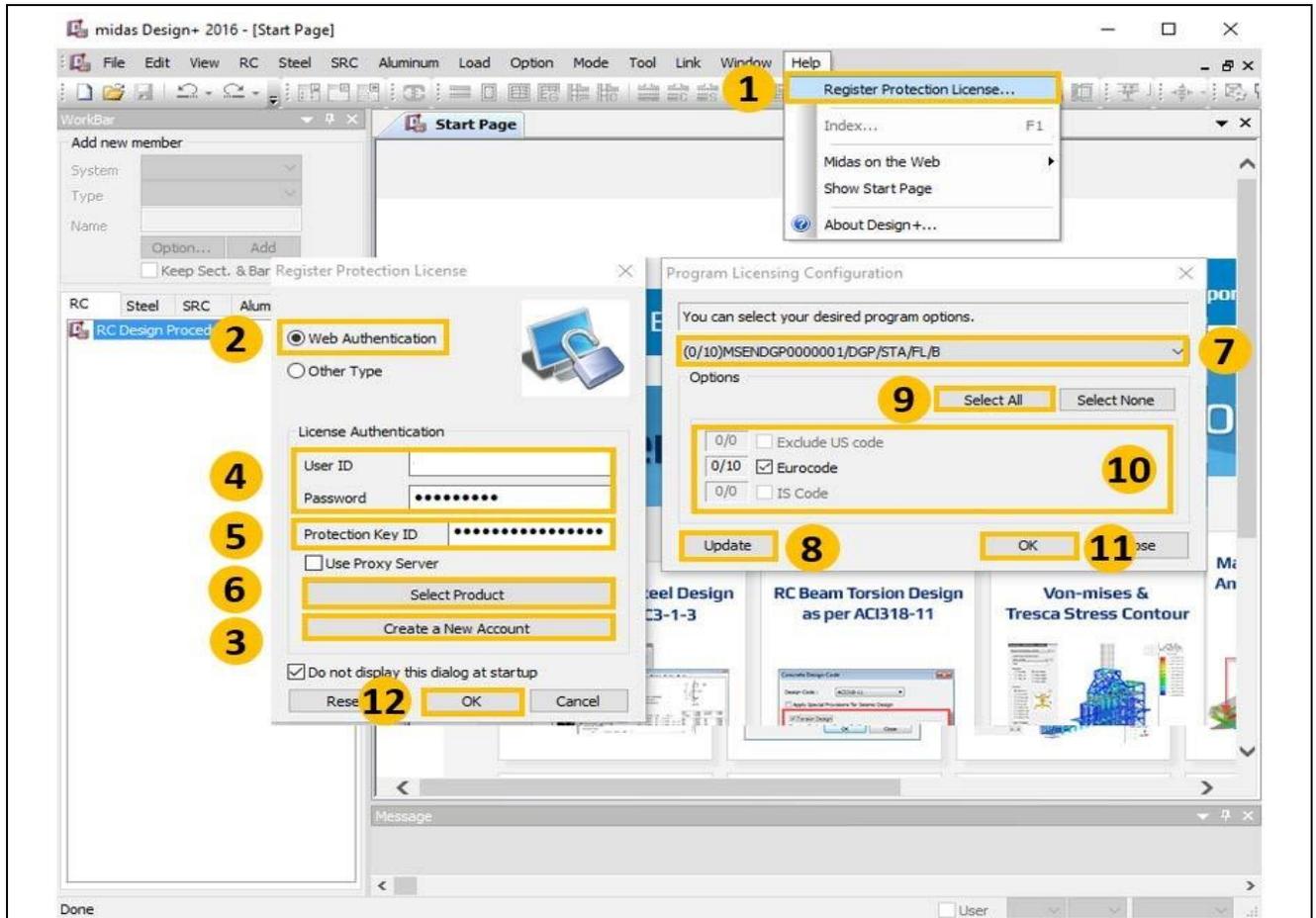


Figure 79 Design+ authenticate 1

Guide step

1. Go to the [Help]tab and click [Register Protection License]
2. In the pop-up window, select [Web Authentication]
3. If you don't have an account for step 4, Select [Create a new account] on the ([Here](#)) If you already have an account, Go to step 4
4. Enter an User ID & Password
5. Enter a Protection key ID
 - It has 16 characters and it means PKID
6. Click [Select Product]
7. Select a correct PID
 - Please make sure that a PID is matched a PKID you entered in step 5
8. Click [Update]
9. Click [Select All] to make sure every options or desired module options are checked on.
10. Check whether options you want to use are selected or not once again.
11. Click [OK] to complete registering a protection key
12. Click [OK] to start a program

4.4.2 Dongle license

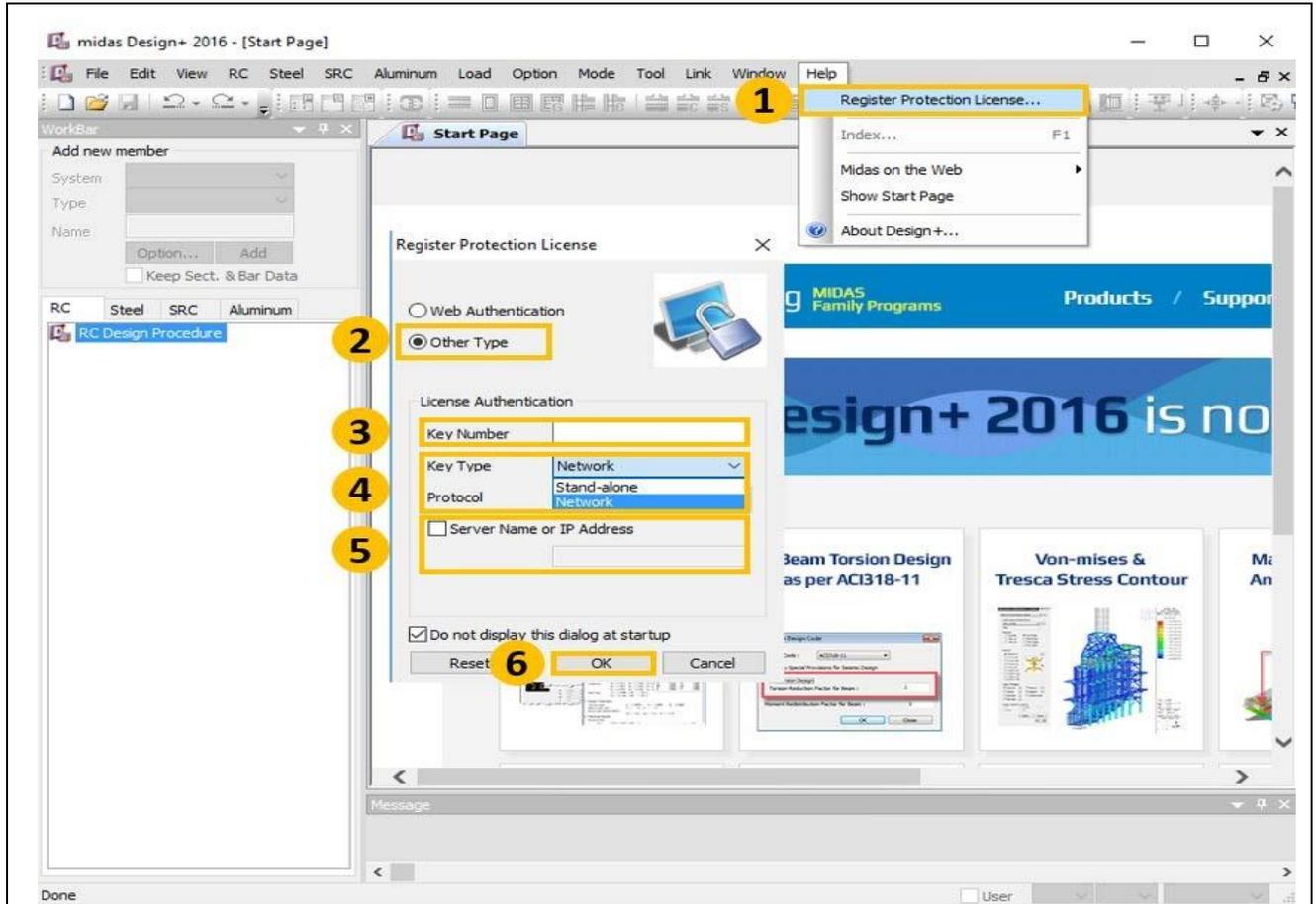


Figure 80 Design+ authenticate 2

Guide step

1. Go to [Help]tab and Click [Register Protection License]
2. In the pop-up window, select [Other Type]
3. Enter a Protection key ID in [Key Number]
 - It has 16 characters and it means PKID
4. Select a correct Key Type
 - If dongle number starts with "U001", Select [Stand-alone] and then go to step 6
 - If not, Select [Network] and then go to step 5
5. For the [Network] type, Select a proper [Protocol] type and enter the [Server Name or IP Address] if necessary
 - For more details about the Network license set up, please ask IT Department in your office.
 - * Reference 4.7 Set up a server for a network dongle ([Click](#))
6. Click [OK] to start a program

4.5 GTS NX

4.5.1 Web license

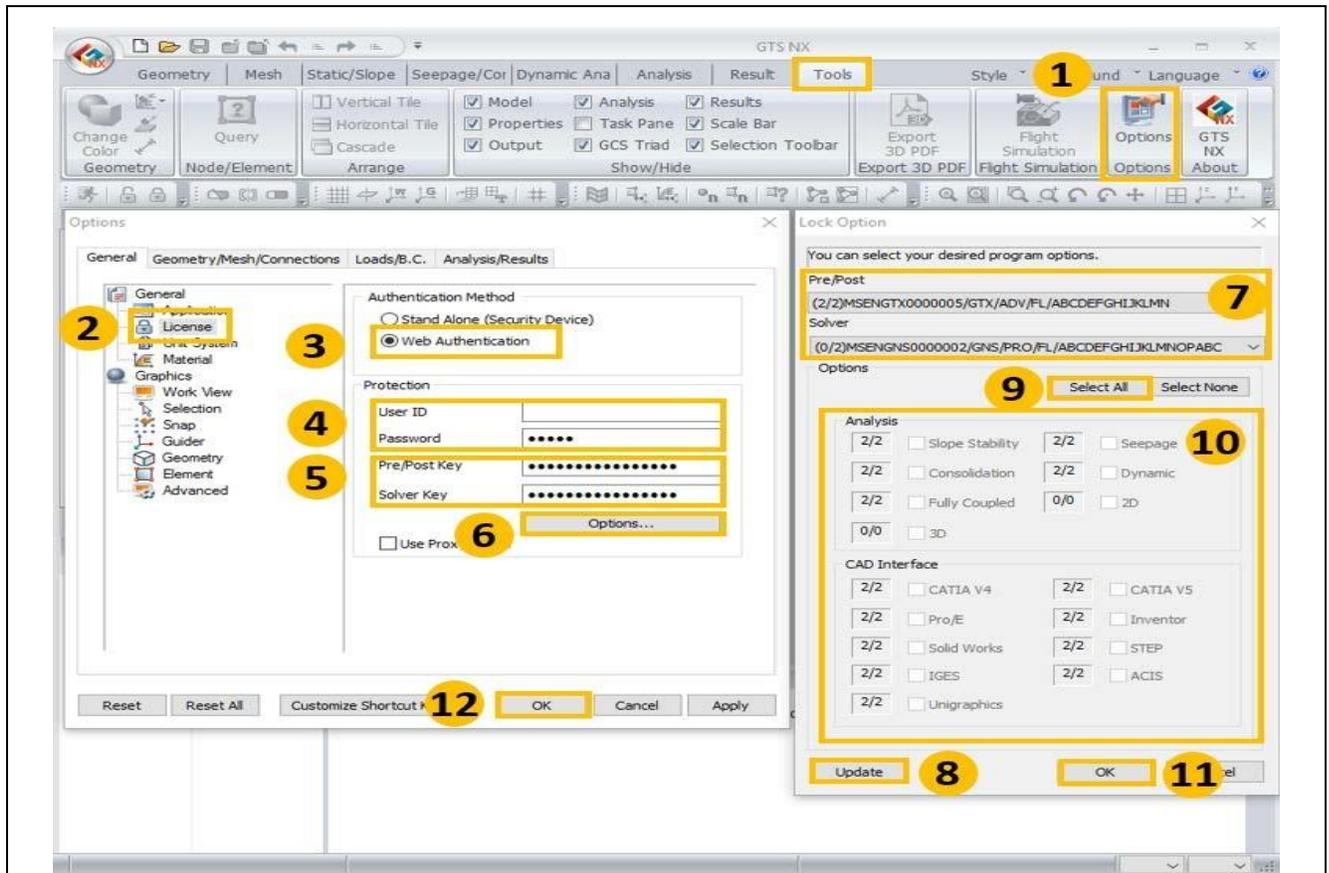


Figure 81 GTS NX authenticate 1

Guide step

1. Go to the [Tools]tab and click [Options]
2. Click [License] on the left side
3. In the pop-up window, select [Web Authentication]
4. Enter a User ID & Password
 - If you don't have an account for step 4, create new account on the ([Here](#))
5. Enter Protection key ID
 - It has 16 characters and it means PKID
 - There are two types of key, a Pre/Post Key and a Solver Key for GTS NX
 - A PID of Pre/Post is for GTS NX and a PID of Solver Key is for Solver
6. Click [Options]
7. Select a correct PID
 - Please make sure that a PID is matched a PKID you entered in step 5
 - A PID of Pre/Post is for GTS NX
 - A PID of Solver Key is for Solver
8. Click [Update]
9. Click [Select All] to make sure every options or desired module options are checked on
10. Check whether options you want to use are selected or not once again
11. Click [OK] to complete registering a protection key
12. Click [OK] to start a program

4.3.2 Dongle license

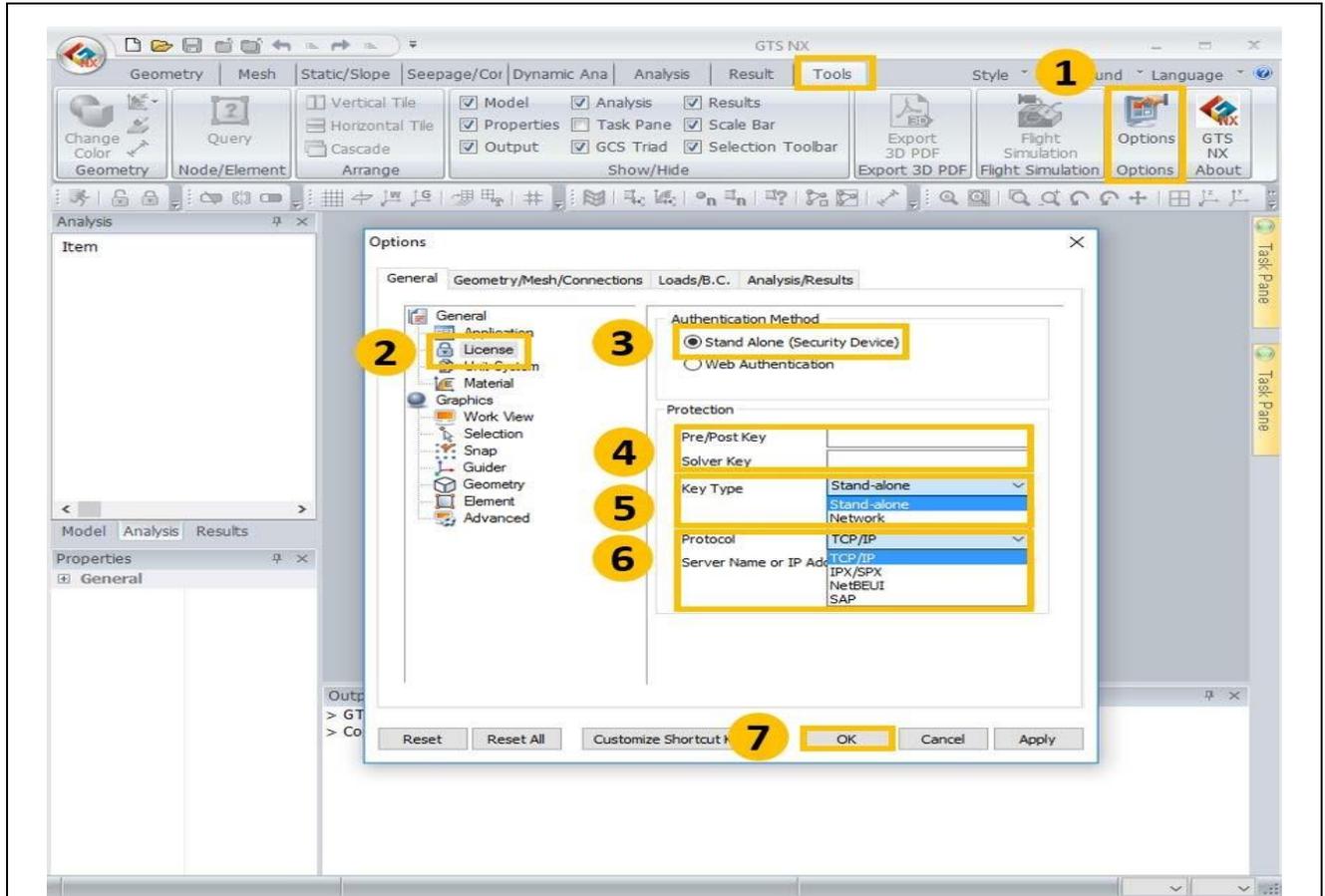


Figure 82 GTS NX authenticate 2

Guide step

1. Go to the tab[Tools] and click [Options]
2. Click [License] on the left side
3. In the pop-up window, select [Stand Alone (Security Device)]
4. Enter a Protection key ID in [Key Number]
 - It has 16 characters and it means PKID
 - A Pre/Post Key is for GTS NX
 - A Solver Key is for Solver
5. Select a correct Key Type
 - If dongle number starts with "U001", Select [Stand-alone] and then go to step 6
 - If not, Select [Network] and then go to step 5
6. For the [Network] type, Select a proper [Protocol] type and enter a [Server Name or IP Address] if necessary
 - For more details about the Network license set up, please ask IT Department in your office.
 - * Reference 4.7 Set up a server for a network dongle ([Click](#))
7. Click [OK] to start a program

4.6 Soilworks

4.6.1 Web license

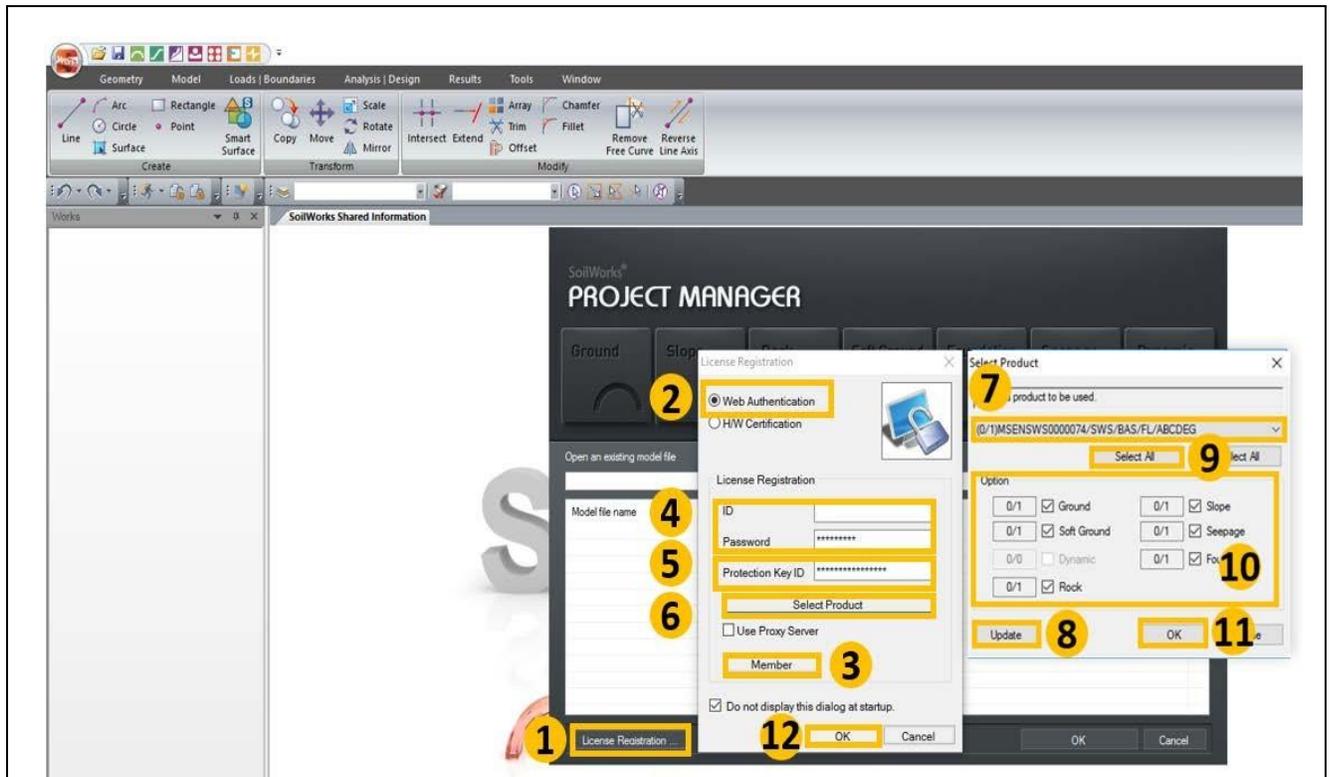


Figure 83 Soilworks authenticate 1

- | | |
|------------|--|
| Guide step | <ol style="list-style-type: none"> 1. Click [License Registration] 2. In the pop-up window, select [Web Authentication] 3. If you don't have an account for step 4, Select [Member] and then create new account If you already have an account, Go to step 4 4. Enter a User ID & Password 5. Enter a Protection key ID <ul style="list-style-type: none"> - It has 16 characters and it means PKID 6. Click [Select Product] 7. Select a correct PID <ul style="list-style-type: none"> - Please make sure that a PID is matched a PKID you entered in step 5 8. Click [Update] 9. Click [Select All] to make sure every options or desired module options are checked on 10. Check whether options you want to use are selected or not once again. 11. Click [OK] to complete registering a protection key 12. Click [OK] to start a program |
|------------|--|

4.6.2 Dongle license

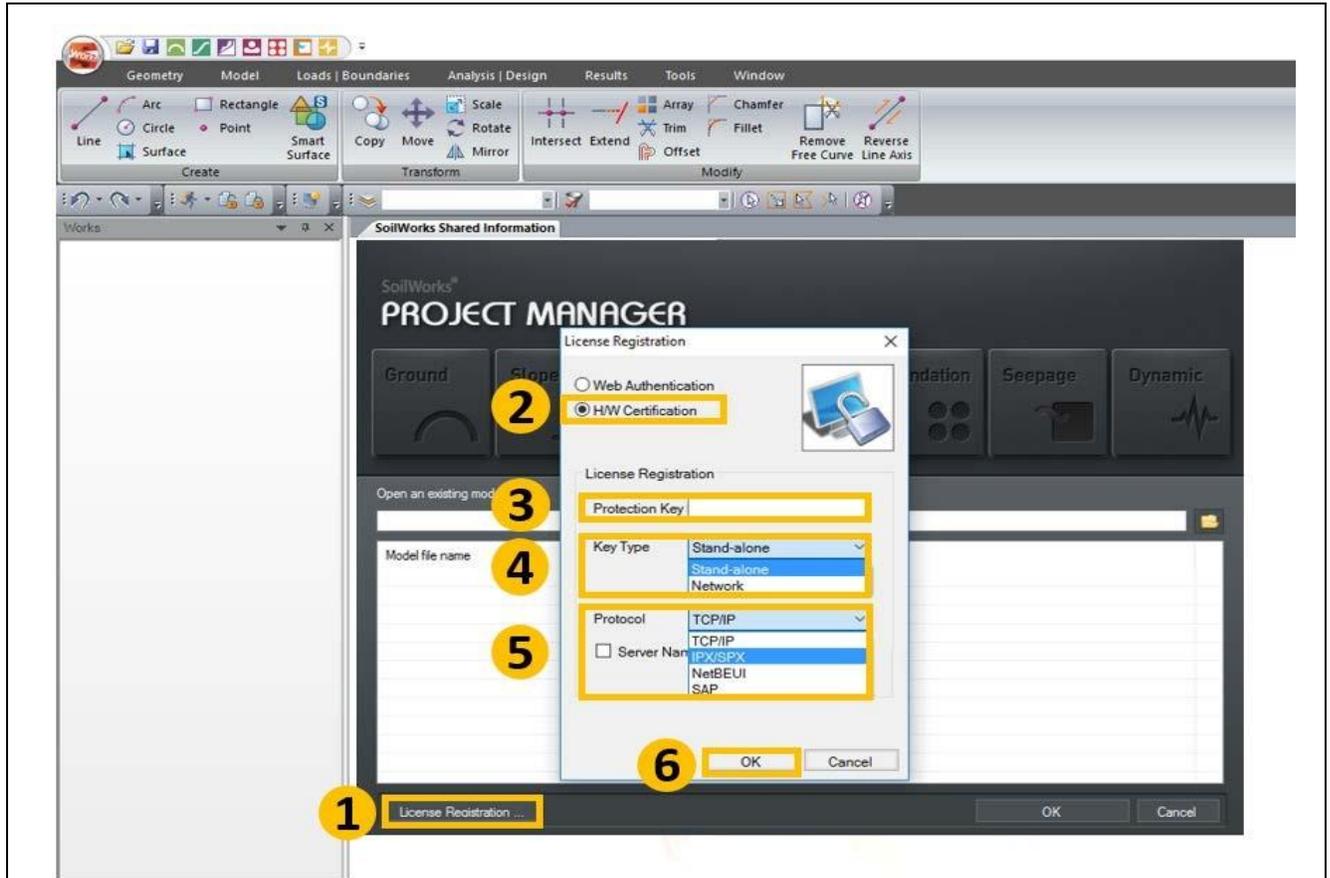


Figure 84 Soilworks authenticate 2

Guide step

1. Click [License Registration]
2. In the pop-up window, select [H/W Certification]
3. Enter a Protection key ID in [Protection Key]
 - It has 16 characters and it means PKID
4. Select a correct Key Type
 - If dongle number starts with "U001", Select [Stand-alone] and then go to step 6
 - If not, Select [Network] and then go to step 5
5. For the [Network] type, Select a proper [Protocol] type and enter a [Server Name or IP Address] if necessary
 - For more details about the Network license set up, please ask IT Department in your office.
 - * Reference 4.7 Set up a server for a network dongle ([Click](#))
6. Click [OK] to start a program

4.7 Set up a server for a Network Dongle

If you use a network dongle, depend on situations, you need to set up a server to use a license. There is the instruction how to set it up below so please follow this instruction.

1. All of computers containing a Dongle license can be a Server.

2. Please set up computers containing a dongle like as shown Figure 85.

- 1) Key Type : Network
- 2) Protocol : TCP/IP
- 3) Check Server Name or IP Address
- 4) Enter "Localhost" to name a computer having a dongle.

3. Please set up other computers not having a dongle like as shown Figure 86.

- 1) Key Type : Network
- 2) Protocol : TCP/IP
- 3) Check Server Name or IP Address
- 4) Enter [IP Address] of "Localhost".

Before starting the Authentication, please check a IP Address of the computer having name "Localhost" from a IT department.

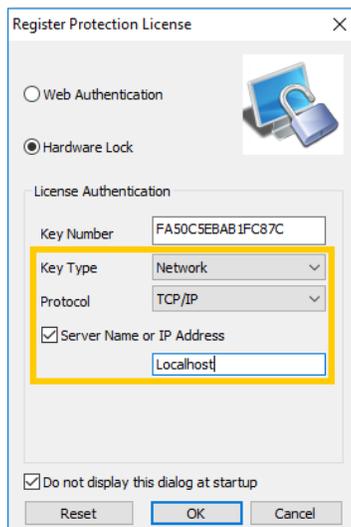


Figure 85 Network setup 1

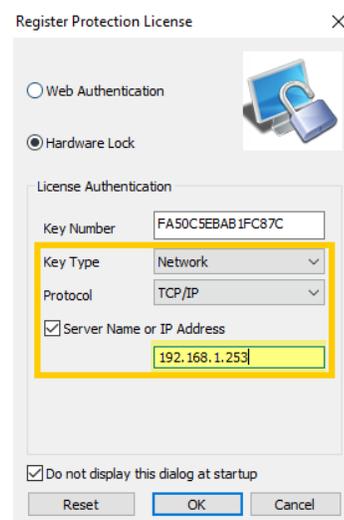
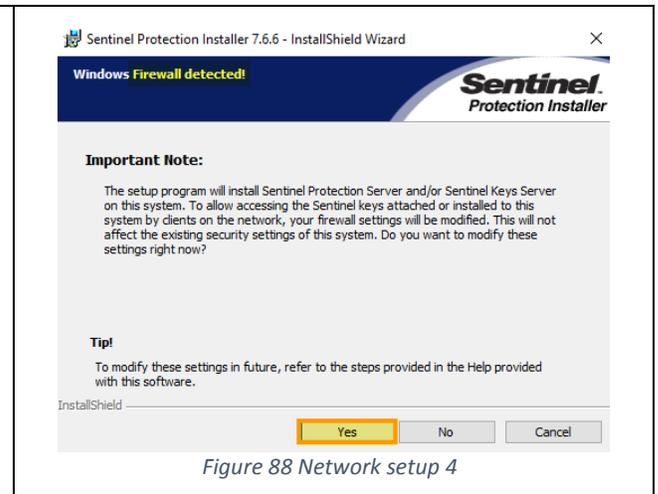
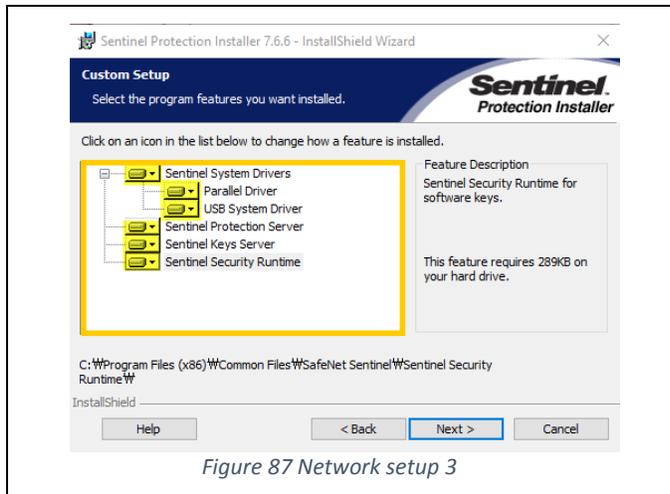


Figure 86 Network setup 2

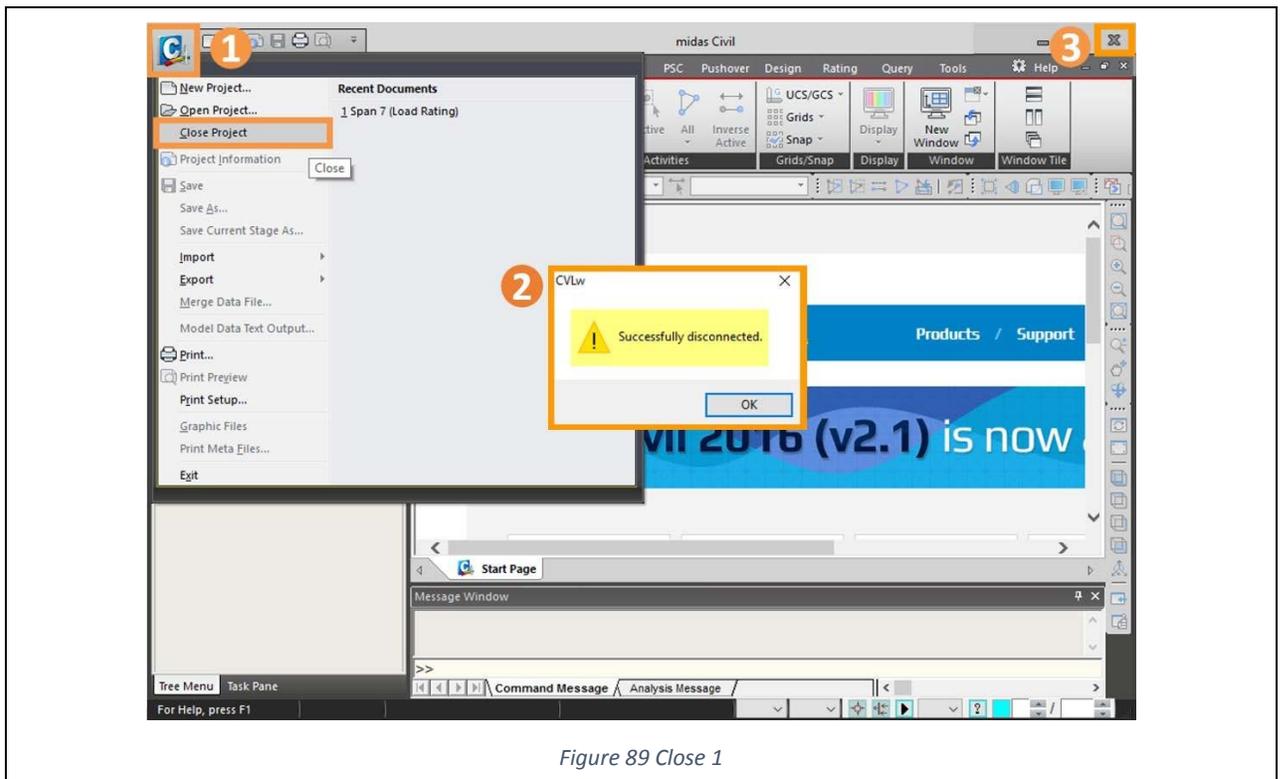
4. Install Sentinel Protection key drivers on all of computers.

- Please install the same version
- Please install all features as shown Figure 87
- Must select "Yes" on a Firewall Settings step during the installation. (Figure 88)



5. Program closing

There is an instruction for how to close midas programs in a correct way. It is highly recommended to close with the instruction because it could cause disconnection errors. Especially, Users give added attention to closing a program when work environments are changed such as computers, IP and Wifi addresses.



1. Close a project in the midas icon on the top left.
2. Check this message to confirm your ID is disconnected well.
3. Close a midas program.

6. Real-time usage Check

This service is only for users using a Web license. With the service, users can check who are using a license now. In order to check that, users must have MUSS accounts. If you don't have an account, you can create it on ([Here](#)).

6.1 How to check real-time usage

There is an instruction for checking a Real-time usage :

1. Before checking Real-time usage, you have to authenticate on licenses you want to check.

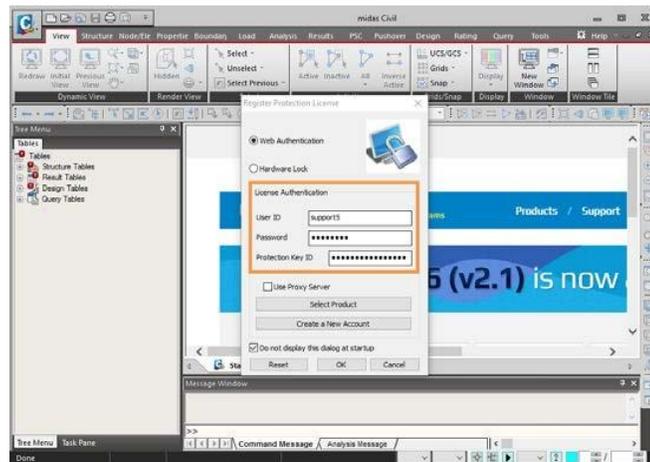


Figure 90 Real time usage 1

2. Go to the midas website and then log in with your account used for authentication in the step 1.

-For users in North / Central / South America ([Here](#))

-For users in the other countries ([Here](#))

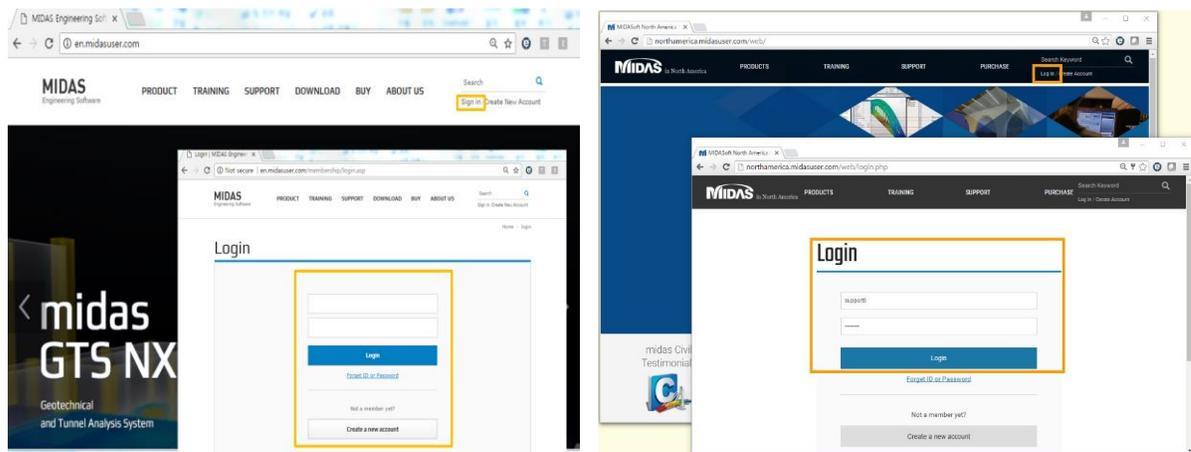


Figure 91 Real time usage 2

3. Click [My space].

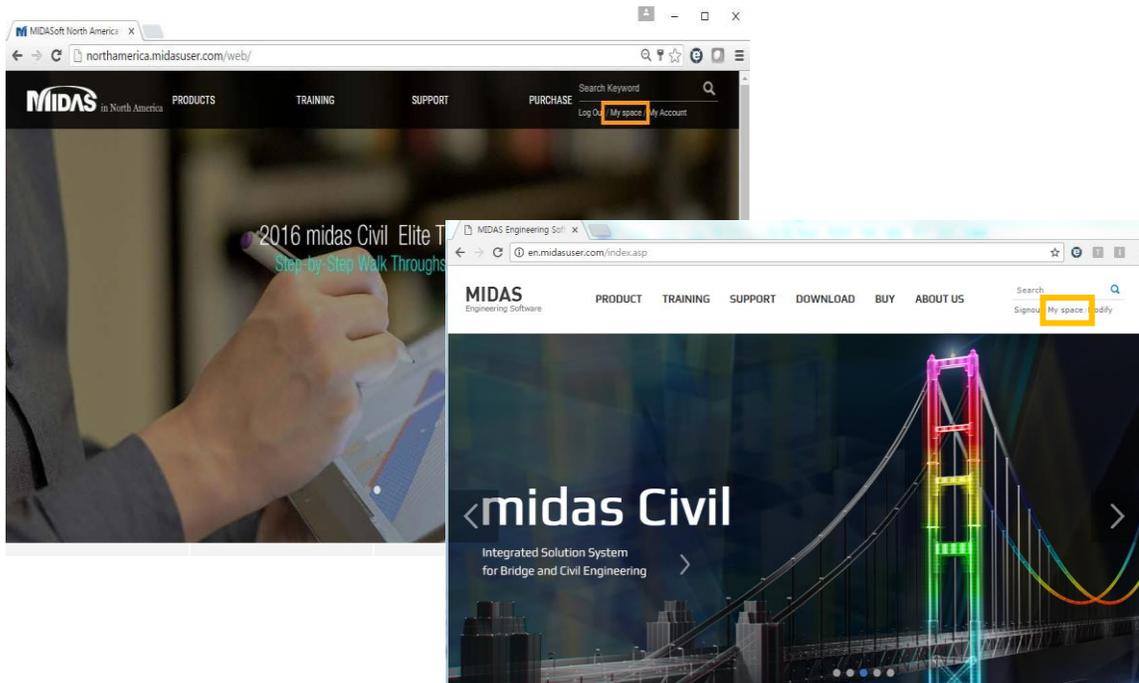


Figure 92 Real time usage 3

4. You can see a list of licenses on [Users Information] if licenses are activated well.

How to enter the Version Issued - Google Chrome

northamerica.midasuser.com/web/sec/myspace.php

Company

- Organization: MIDASOFT
- Phone No.:
- Fax No.:
- Address: NY

TSS License Information

Expiry: 2016-02-28

Quantity: 1

Users Information (Please click the desired Product ID to see the current users information.)

Class	TSS	ProductID	Product	Quantity	Expiry	Users
Subscribed	0	MSENGEN000039	Gen	50	3/31/2017	
Subscribed		MSENCIV00008 3	Civil	1	12/31/2016	
Subscribed		MSENFEA0000 05	FEA	1	12/31/2016	
Subscribed		MSENGEN000037	Gen	1	12/31/2016	
Subscribed		MSENGHS000011	GTS NX Solver	1	12/31/2016	
Subscribed		MSENGTX00001 6	GTS NX	1	12/31/2016	
Subscribed		MSENGV5000069	SoilWorks	1	12/31/2016	
Subscribed		ENENCIV00000 8	Civil	6	10/31/2016	2
Agent		MSENCIV000028	Civil	10	12/31/2016	3
Agent		MSENDGP000000	Design+	10	12/31/2016	

Figure 93 Real time usage 4

7. Program version

There are step by step instructions for checking a version you use. Please find the instructions and follow it.

7.1 How to check a program version 1

Users can check a program version on the program. If you use Civil, Gen, Design+ or FEA, please see the following 7.1.1 Case 1. If you use GTSNX or Soilworks, please the following 7.1.2 Case 2.

7.1.1 Case 1 (For Civil, FEA, Gen, Design+)

- 1) Go to [Help] tab and Click [About midas a program] on the right top.
- 2) Check a version and build date.

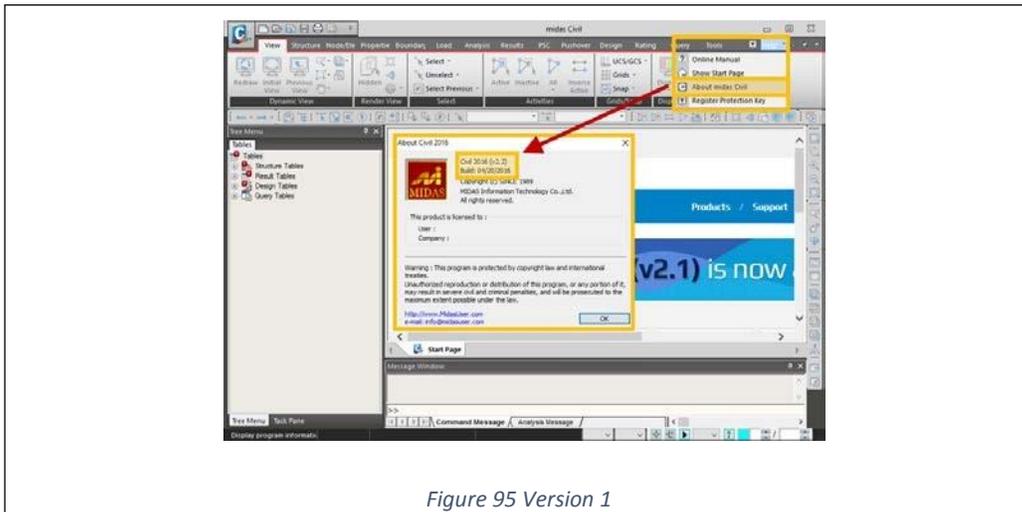


Figure 95 Version 1

7.1.2 Case 2 (For GTSNX, Soilworks)

- 1) Go to [Tools or Window] Tab and Click [About midas a program] on the top.
- 2) Check a version and build date.

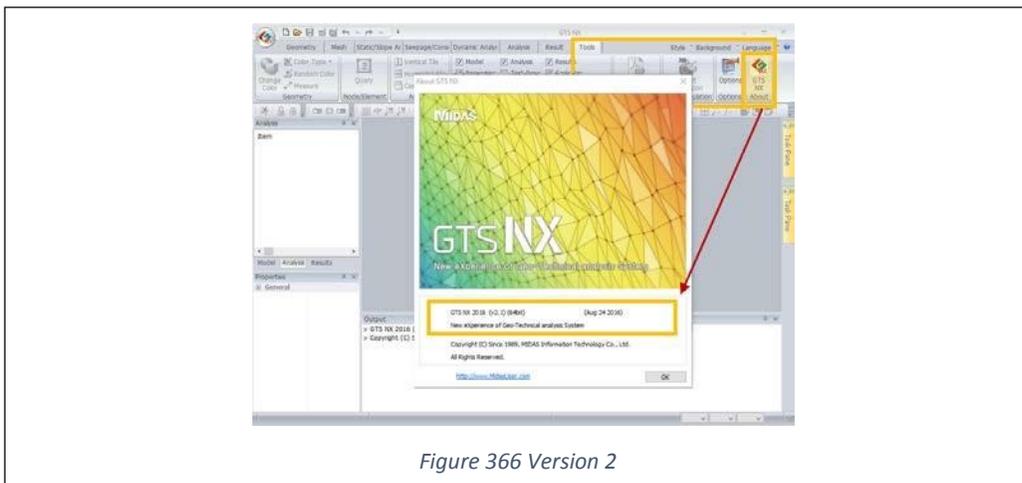


Figure 366 Version 2

7.2 How to check a program version 2

Users can check a program version on a control panel.

- 1) Go to Control Panel > Program > Program and Features.
- 2) Find midas programs and check a version (Refer to figure 97).

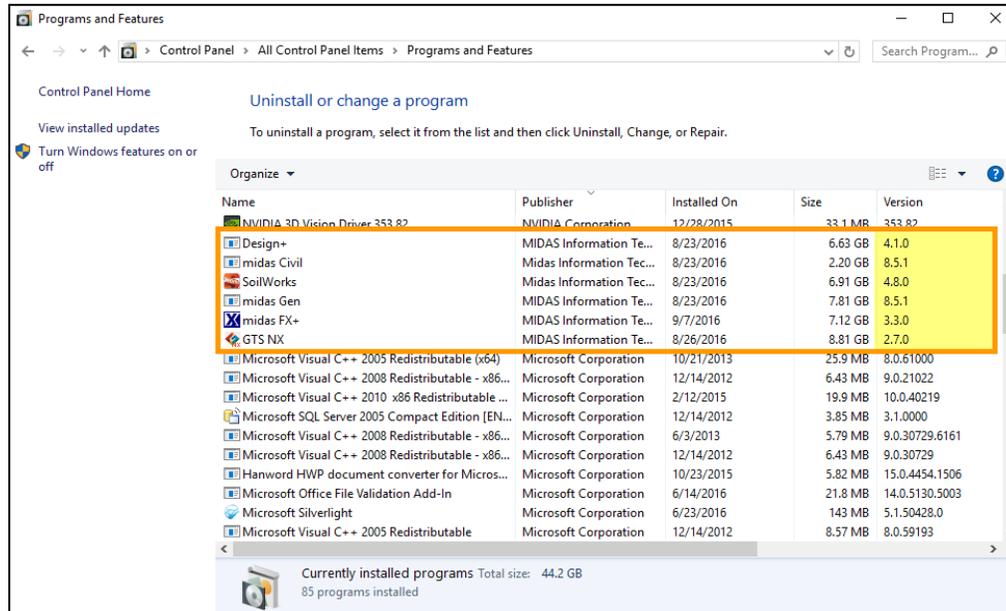


Figure 97 Version 3

References

- [1. Installation](#)
- [4. Authentication](#)
- [9. Error](#)

8. Trial license

MIDAS provides future users a free trial version for several days. If you would like to experience midas programs, please go to ([Here](#)) and follow it. Please refer to the instructions for using midas program after you get a trial license.

References

- [1. Installation](#)
- [4. Authentication](#)
- [9. Error](#)

9. Error

9.1 Error "User ID or P.W is incorrect"

9.1.1 Why the error occurs

The error is typically caused when you enter an ID or P.W incorrectly. It will be resolved by following solutions below.

9.1.2 Solutions

9.1.2.1 Incorrect ID & Password

Please check if your ID & Password are correct or not.

9.1.2.2 I don't know my ID & Password

Go to ([Here](#)) and Find your ID & Password.

9.2 Error "PKID is incorrect" & "PKID number does not match"

9.2.1 Why the error occurs

The error is caused when you use an incorrect PKID or a PKID doesn't match with information of your license. Please check the solutions below and follow that.

9.2.2 Solutions

9.2.2.1 Incorrect PKID

The error occurs when you entered incorrect PKID. In order to solve it,

- Please check what your exact PKID is
- Please check if you entered a PKID correctly or not
 - A PKID has 16 characters
 - If you copy and paste a PKID, there could be spaces and the spaces make the error.

9.2.2.2 Incorrect PID (For only Web license users)

The error occurs when the PID does not match with the PKID that you enter. Please check what your accurate PID of the license and select the accurate PID on the Authentication window of midas program.

9.2.2.3 Incorrect Key type (For only Dongle license users)

The error occurs when your PKID and Key type don't match. Please make sure that what kind of key type your dongle has and then select a correct key type when you authenticate a license.

9.2.2.4 Matching a version (For only Dongle license users)

The error occurs when the version of the program in your PC does not match with the version of your PKID. Please check the version for both of your installation file and PKID and contact MIDAS manager to confirm it

Even though you follow the instructions, if you still have the same error, please post the error on [midas Support](#).

9.3 Error "Same user ID is used in another system"

9.3.1 Why the error occurs

Once you close midas programs, you will see the confirmation message "Successfully Disconnected" if your account is released successfully. However, if your account is not properly released, you will get this error. Also when IP, Wifi address or computer is changed, you will get this error as well. There are solutions and recommended closing way in order to avoid the error. So, please find it and follow it.

9.3.2 Solution

Go to [6. Real-time check](#) and then follow [6.2 Follow up](#).

9.3.3 Recommendations

- 1) Please follow [5. Program closing](#) when you need to change your work environments such as computers, IP address or Wifi.
- 2) We strongly recommend to use one MIDAS account per machine. For example, if you work using a computer at home from time to time, we recommend that you set up and use a different ID and Password than at work computer.

9.4 Error "You have reached the maximum number of licenses"

9.4.1 Why the error occurs

You get the error when seats assigned to your license are already occupied with other users. There are solutions so please find and follow that.

9.4.2 Solution

- 1) Web license : Go to [6. Real-time check](#) and then follow [6.2 Follow up](#).
- 2) Dongle license : Please inquire to your IT/Program manager for log records. A hardware license usage cannot be tracked via MIDAS.

9.5 Inactivation of selecting PID

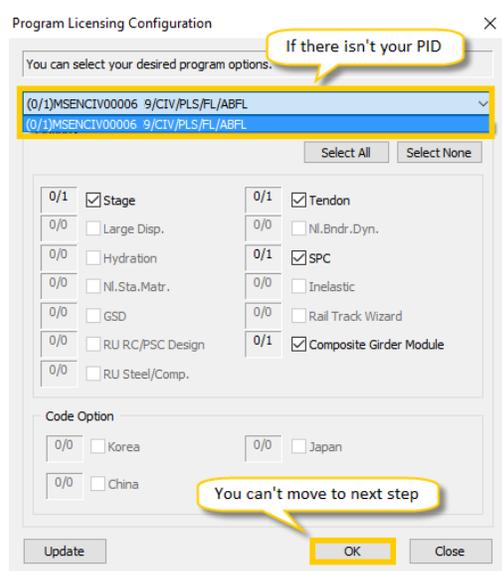


Figure 37 Error 9.5

You are in the situations that you can't find your PID on Authentication or move to next step.

9.5.1 Why the error occurs

- 1) When a license expired Ex) A rental license
- 2) A PKID you used isn't for a PID you want to use.

9.5.2 Solution

- 1) Please check your license type and expiry date on [6. Real-time check](#). If your license is a rent license or expires, you can't access to your license anymore. Please contact [midas Support](#) for renewal of your license.
- 2) Please follow [4. Authentication](#) to authenticate on your license correctly.

9.6 Inactive selecting options

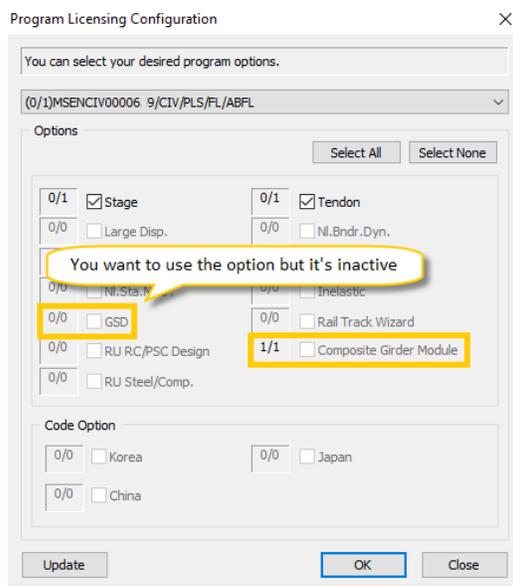


Figure 38 Error 9.6

You are in the situation that you can't select options you want to use.

9.6.1 Why the error occurs

- 1) The license doesn't contain options you want to use.
- 2) Seats for the options you want to use are already fully occupied by other users.

9.6.2 Solutions

- 1) In order to check options you can access, contact IT managers in your office or ask to [midas Support](#).
- 2) Please check [6. Real-time check](#) on my space and we recommend to contact with the users.
- 3) If you want to purchase options additionally, please contact [midas Support](#).

9.7 Error "License is expired"

9.7.1 Why the error occurs

- 1) A license is rental one or expires.

2) A version and PKID don't match.

- It is only for dongle users. A PKID for a dongle license is changed depend on versions of program so please check PKIDs upon the version. (* Reference – [2.2.1 What dongle license is](#))
- A PKID of Web license is always same even though version is changed so it always can be used continuously with the same PKID.

3) You don't have a right to use a version you want. (* Reference – [2.1.1 What web license is](#))

- You can access to only versions which are released before your license expires. Therefore, if you get the error, please check a installed version and a expiry date of your license. Then, confirm whether you can use the version or not.

9.7.2 Solutions

- 1) Please check your license type and expiry date on [6. Real-time check](#). If your license is a rent license or expires, you can't access to it anymore.
- 2) Please check a version you use with [7. Version](#) and whether PKID is right for a version you use or not with IT managers in your office. If you can't check on your side, please contact [midas Support](#).
- 3) Please check an installed version on your computer with [7. Version](#) and expiry date of your license on [6. Real-time check](#). Next, those are compared. If a release date of installed version is later than a expiry date of you license, you can't use the version. Also, Go to ([Here](#)) and compare with release dates and expiry date of your license if you want to check what version you can use by.

The way how to check availability of certain versions		
Civil 2016 v2.3	Release date : July 26 th 2016	
Your license	Expiry date : July 25 st 2016	→ You can't use Civil 2016 v2.3
	Expiry date : July 27 th 2016	→ You can use Civil 2016 v2.3

9.7.3 Follow up

Please contact [midas Support](#) if you'd like to renew your license to use the latest version or the error isn't solved well even though you follow the solutions.

9.8 Error "Invalid option"

9.8.1 Why the error occurs

If you get the error "Invalid option", the reasons are below.

- 1) Options you want to use aren't checked on well when Authentication.
- 2) You run options you don't purchase.

9.8.2 Solutions

- 1) Please follow [4. Authentication](#) correctly and pay attention to especially "selecting option stage".
- 2) Contact [midas Support](#) if you want to purchase options you want to use additionally.

10. Initialize a registry

There is an instruction for initializing a registry. It makes a setting as default. If you want to set as default, please follow this instruction.

Also, here are typical situations that initializing a registry is needed.

- 1) There are system crashes or errors while installing midas programs.
- 2) midas programs doesn't run well after installation.
- 3) midas program were going well but it suddenly doesn't work.

10.1 How to initialize a registry

- Step 1. Uninstall a midas program
- Step 2. Go to "C: Drive" and delete the Midas folder - Location : C:\Program Files\MIDAS
(Usually, the location is valid but it could be different depend on individual system.)
- Step 3. Click "Start" of your Windows, find "Search programs and files".
- Step 4. Enter "Regedit" in the search box and open the program.
- Step 5. Go to the following path "HKEY_CURRENT_USER → SOFTWARE → MIDAS"
- Step 6. Delete the "MIDAS" folder.
- Step 7. Re-install a midas program

11. License renewal FAQ

11.1 What benefits is the maintenance included?

The maintenance renewal covers the technical support and software updates.

11.2 How do I renew my license?

Midas licensing manager will contact you to renew the license through a mail or call 2 months ago before the expiration. If you have any adjustment details about the renewal, please contact us on [midas Support](#).

11.3 How to calculate the maintenance fee?

The maintenance fee is 15-20% of the initial purchase product cost.

11.4 Why does the renewal period cover on yearly basis?

Midas IT provides at least two important annual software updates (including annual updates for Design Codes) so it is common to have contract period covers on yearly basis. The reason for maintenance costs is ongoing development expenditures for software updates and development.

11.5 Can I use my license after the expiration without renewal?

Even though you don't renew the license, you can continue to use your license. However, you won't take any technical support and software updates. Also there will be a reactivation fee(\$500) if you want to renew the license again in the future.

11.6 Is there penalty if I renew the license after the expiration?

There will be additionally a reactivation fee(\$500) with the maintenance fee.

11.7 Is it possible to purchase only software update separately without the renewal?

No, it isn't possible. Midas software updates are included in the renewal so you can't purchase only the service. If you want to get the updates, you should renew the license.

11.8 Can I change options or the number of seats I have when I renew?

Regarding the adjustment of options or the number of seats you have, you technically can do it but we highly recommend our users to not do it. This is because after you make this change you are not going to be allowed to use the modules that are not active any longer. If you decide in the future to use this modules, there will be a reactivation fee of \$500, and you would also have to pay maintenance fee for previous periods to be able to activate them again. So with that said, I would suggest that you keep the modules activated for the renewal at this time as it is a more efficient choice in the long term.