

SETTING MANUAL

WEB MONITORING TOOL for VRF System

UTY-AMGXZ1

Ver. 2.5



CAUTION

Please read the LICENSE AGREEMENT in the manual first.

PART NO. 9708314068-07

FUJITSU GENERAL LIMITED

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1. Safety precautions

- Before using Web Monitoring Tool, read this “SAFETY PRECAUTIONS” thoroughly to ensure the correct operation.
- This section describes the important safety information to operate Web Monitoring Tool.
- The meanings of “WARNING” and “CAUTION” are explained as follows.

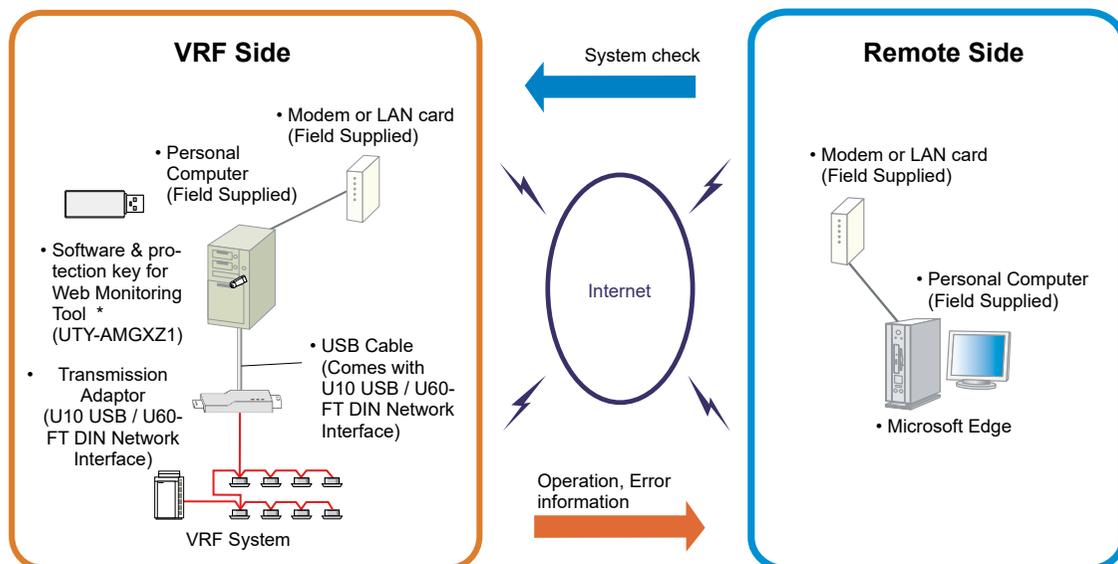
 WARNING	This mark indicates the procedures, which might result in the death of or serious injury to the user or service personnel if improperly performed.
 CAUTION	This mark indicates the procedures, which might result in personal harm to the user or damage to property if improperly performed.

This manual is for service personnel authorized to use the Web Monitoring Tool. Always keep this manual in an easily accessible place for use by authorized service personnel.

 WARNING
1. When using U10 USB / U60-FT DIN Network Interface, follow the instructions given in the manual that comes with the product.

 WARNING
Web Monitoring Tool can control the air-conditioner system on a personal computer. Be careful not to turn off the power supply of the personal computer, or not to finish the application compulsorily during operation. Otherwise, Web Monitoring Tool might malfunction. For personal computer used as Web Monitoring Tool, refer to the instruction manual.

2. Outline



* WIBU-KEY of UTY-AMGX can be used.

This setting manual explains the setting procedures for the software of Web Monitoring Tools for the VRF control system.

This tool lets you check a VRF System installed at a distant place from the remote side by internet and other communications method. If a personal computer connectable to the network and Microsoft Edge are available at the remote side, VRF System checks can be carried out at the same level as the Service Tool.

When an error occurs in the VRF System, the error is displayed at the remote side monitor. If internet is selected as the communications method, the error can be reported to a pre-registered address by e-mail. Moreover, since unit data for up to the last past week is recorded at the VRF side, defect phenomena for on-site repair can be grasped in advance by checking the unit data from a remote place when a defect occurred.

■ Software construction

The Web Monitoring Tool software consists of the **Data acquisition application** and **Monitor application**.

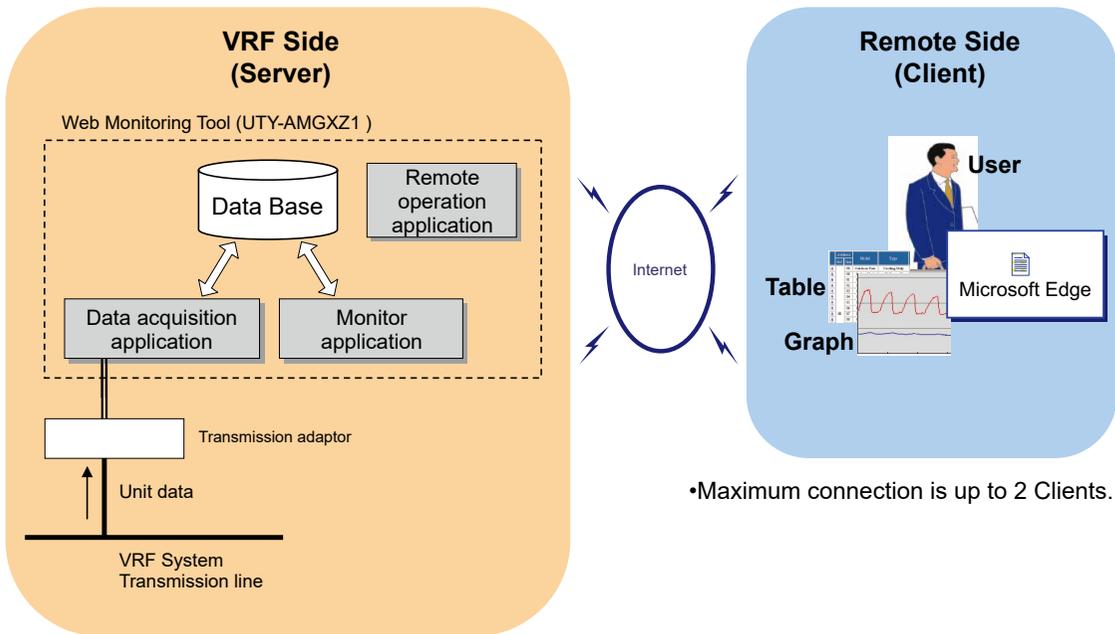
The **Data acquisition application** is a program which is made resident when the Web Monitoring Tool is started, and exchanges data with the VRF System transmission line. It also records the received unit data to a database.



The **Monitor application** is a Web server and a collection of server side program and scripts which converts the acquired Unit data to Table and Graph, and displays them to a browser (Microsoft Edge) upon request from remote side. It also converts operations input from the User and passes them to the Data acquisition application through the Database. In this manual, **Monitor application** will refer to the collection of server side program and scripts.

The **Remote operation application** is the application to perform the remote operation. The

Remote operation application operates only when the remote operation mode is valid.



Note



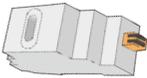
- Hereinafter, the following will be used in the descriptions in this setting manual:

VRF Side → Server
 Remote Side → Client

3. Installation

3-1 Precautions

- This product may be updated without prior notice. Since trouble may occur depending on the purchased system, check with your service personnel for updates.
- This product requires the use of one of the following optional transmission adaptors. Procure them in advance.

Name & Shapes	Q'ty	Remark
Transmission Adaptor (U10 USB Network Interface -TP/FT-10 Channel)  (Field Supply)	1 to 4 Procure the necessary number in accordance with the number of connection systems.	Model : 75010R (Echelon Corporation)
Transmission Adaptor (U60-FT DIN Network Interface)  (Field Supply)		Model : 75060R-40 (Echelon Corporation)

3-2 Recommended specifications

This tool operates in the environment below.

For VRF Side PC (Server)

Operating system (*1)	<ul style="list-style-type: none"> •Microsoft® Windows® 10 (64-bit) Pro •Microsoft® Windows® 11 Pro
CPU	Intel® Core™ Processor 1GHz or higher
Memory	4GB or more
HDD	40GB or more of free space
Display	1366 x 768 or higher resolution
Interface	USB port (for U10 USB / U60-FT DIN Network Interface Max.4 , Software protection key) Either of the following interface is required for remote connection: <ul style="list-style-type: none"> •Public Telephone Line : Modem is required •Internet using LAN : Ethernet port is required
Software required	Adobe® Acrobat®

For Remote side PC (client)

CPU	Intel® Core™ Processor 1GHz or higher
Web browser	Microsoft Edge recommended
Display	1366 x 768 or higher resolution (Set the resolution before use so that the resolution of remote operating PC monitor screen is higher than that of local side PC.)



*1 Set the Region setting to the Western calendar.

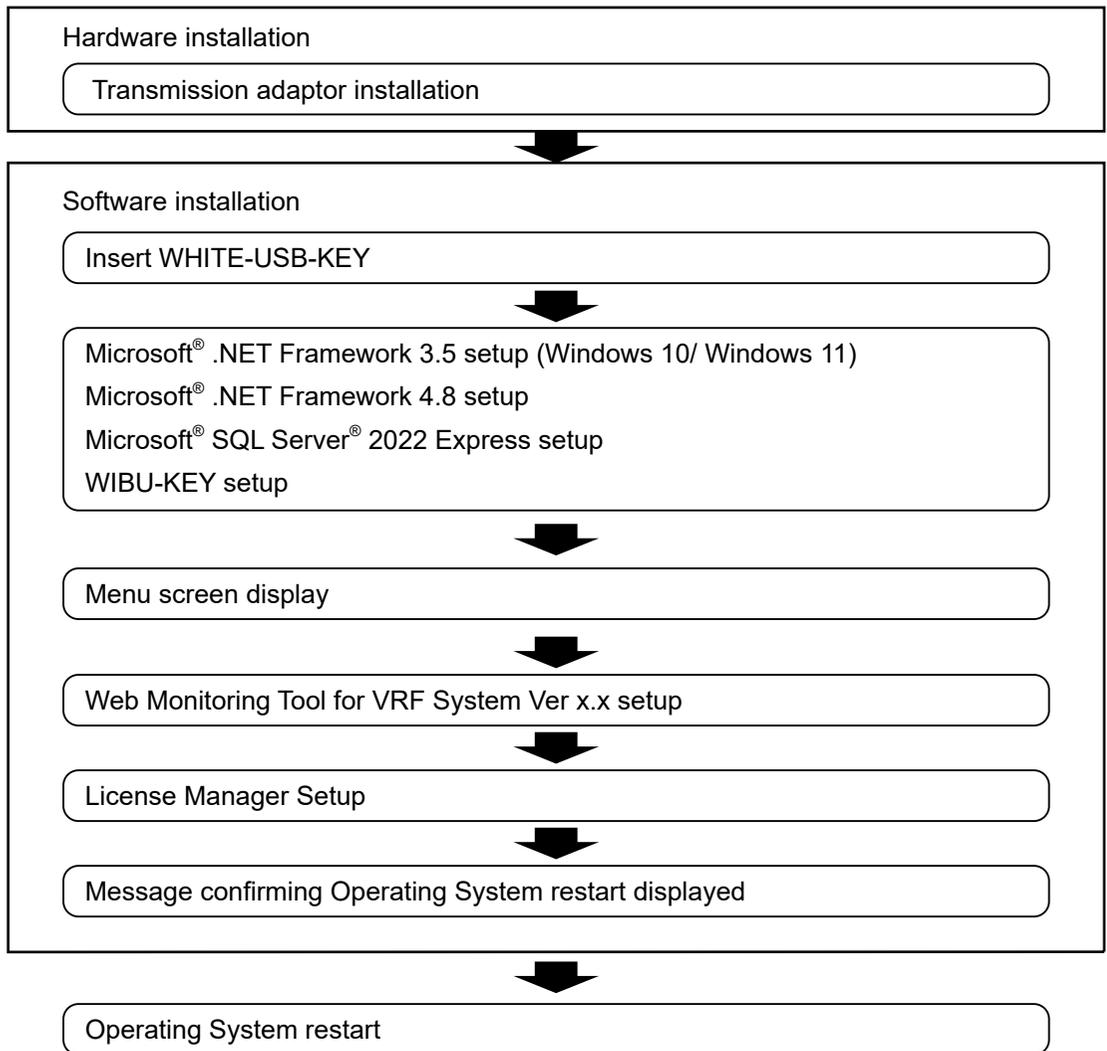
This application can operate only on operating system (OS) during the period supported by Microsoft. Note that we cannot guarantee the operation of this application on operating system (OS) whose support has expired.

3-3 Installation flow

3-3-1 Server

WARNING!

- Web Monitoring Tool is tested to install and operate under new Windows environment. When program executional environment of Windows is corrupted or abnormal, or other softwares that interfere with the operation of Web Monitoring Tool is installed or running, Web Monitoring Tool may not install or run properly. It is usually extremely difficult to detect such conditions, if it occurs.
It is recommended that Web Monitoring Tool be installed on a new PC, dedicated for the use of Web Monitoring Tool.
- Web Monitoring Tool product is provided with softwares, drivers, components listed below. If the same kind of softwares, drivers, components with different version is installed on the same PC, Web Monitoring Tool may not install or run properly.
 - 1) Microsoft® .NET Framework
 - 2) Microsoft® SQL Server® 2022 Express
- If “Program Files” folder is compressed or encrypted, Microsoft® SQL Server® 2022 Express cannot be installed. Release the settings before installation as follows:
Start “Explorer” → right-click “Program Files” folder → select “properties” → click “Advanced...” → release the check marks of the “Compress or Encrypt attributes”.
- If the computer name and Windows log-in user name are the same, Microsoft® SQL Server® 2022 Express cannot be installed. In this case, change either of the names before the installation is performed.

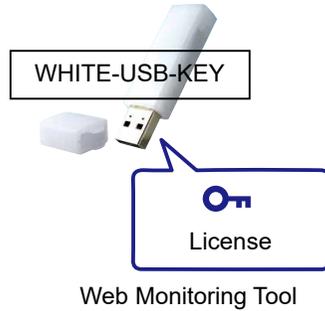


- Have installation performed by a user belonging to the Administrators group.

4. Software License

What is software license?

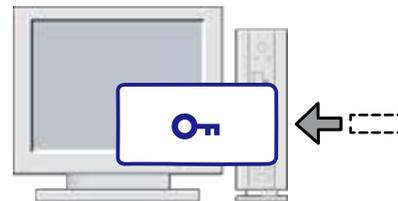
- The software license means the use acceptance of this product in the agreed-upon License Agreement.
- One software license is provided as “License” stored in WHITE-USB-KEY for each purchased product.



- For the “License” stored in WHITE-USB-KEY, it can be used by inserting WHITE-USB-KEY directly to a PC or it can be moved to a PC using “License Manager for VRF System”. If an option is not used, it is used in one of two methods shown below.



Used by moving WHITE-USB-KEY which stores license to a PC (status at the time of purchase)



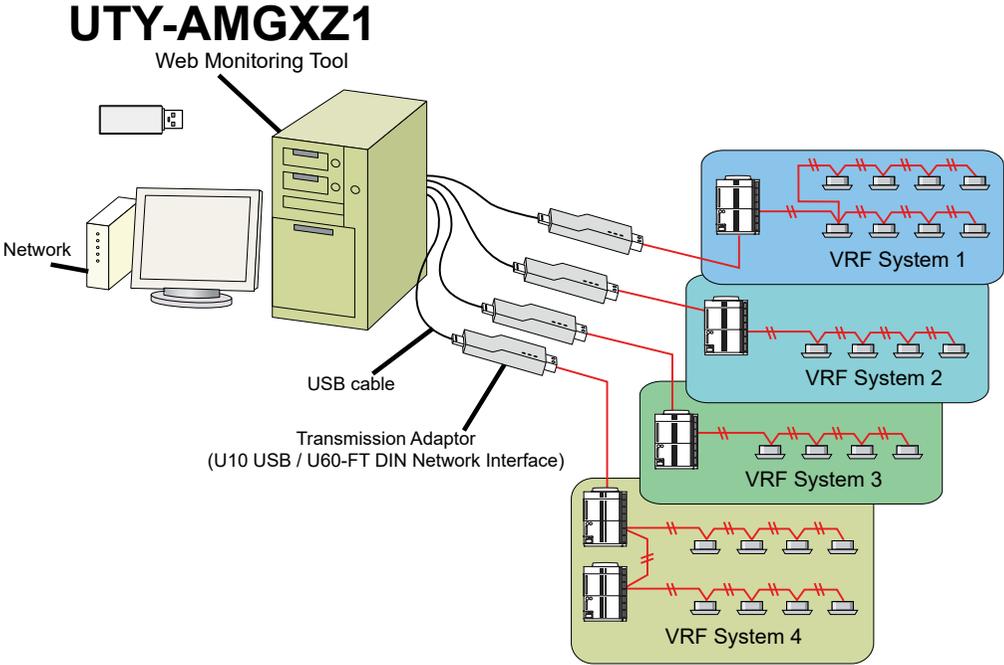
Used by moving the license to a PC main unit



- The conventional WIBU-KEY can also be used as it is, but the license of WIBU-KEY cannot be moved to PC. (Only conventional usage method is effective.)
- For details, refer to the manual of License Manager.

5. Hardware installation (Server)

5-1 Transmission adaptor installation



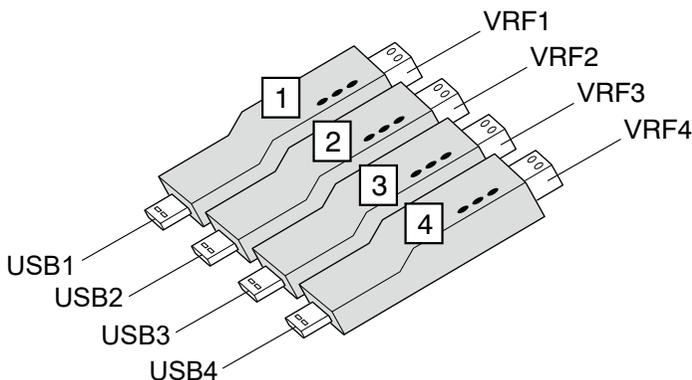
The Web Monitoring Tool can connect up to 4 VRF systems. Since 1 transmission adaptor connects to 1 system, up to 4 transmission adaptors are connected.

U10 USB / U60-FT DIN Network Interface

This transmission adaptor is connected using the USB port of a personal computer.

To use this product, turn on the power of the PC and install necessary drivers/software for this product (BEFORE connecting it to any USB port), following the ***QUICK START*** enclosed with this product.

- ① When using multiple transmission adaptors, connect the nth VRF System to the nth transmission adaptor, or attach a label so that the transmission adaptors can be identified. (Because there is an item which sets what number transmission adaptor is connected to what number USB port at software starting.)



Keeping a record of a table such as shown below is recommended.

USB port	Adaptor No.	VRF System No.
USB1	Adaptor1	VRF1
USB2	Adaptor2	VRF2
USB3	Adaptor3	VRF3
USB4	Adaptor4	VRF4

- ② Connect the transmission adaptor to the personal computer USB port. When there are multiple transmission adaptors, connect the nth transmission adaptor to the nth USB port in that order.

5-2 Turning on the power

WARNING!

Do not turn on the power until all installation work is completed.

Once the wiring has been installed, the power can be turned on. Follow the procedure below for turning on the power.

- ① Turn on the power for all connected indoor units.
- ② Turn on the power for all connected outdoor units.
- ③ Connect U10 USB / U60-FT DIN Network Interface (Driver must be installed following the procedure in “par. 5-1 Transmission adaptor installation” before connecting). *1

Note *1  Make sure that USB equipment (USB hub, etc.) that this product is connected to, is not overloaded (power supplied thru the interface does not exceeds the maximum limit).

- ④ Turn on the power for Web Monitoring Tool PC, if it is not yet turned on.

6. Software Installation & Removal

6-1 Installation Notes

Before starting the installation of this product, check each of the followings.

- ◆ Install Adobe® Acrobat® prior to the installation. (Adobe® Reader® does not come with this product).
- ◆ If one of the following product is already installed, remove it first. Refer to “par. 6-3 Software Removal” for how to remove these products.
 - Service Tool for VRF System (UTR-YSTC) Ver. 3.0 or later
 - Service Tool for VRF System (UTY-ASGX) Ver. 1.0 or later
 - Service Tool for VRF System (UTY-ASGXZ1) Ver. 2.0 or later
 - Web Monitoring Tool for VRF System (UTR-YMSA) Ver. 3.0 or later
 - Web Monitoring Tool for VRF System (UTY-AMGX) Ver. 1.0 or later
 - Web Monitoring Tool for VRF System (UTY-AMGXZ1) Ver. 2.0 or later
- ◆ Do not insert WIBU-KEY (Software protection key) enclosed with this product to the PC until product installation is completed.
- ◆ You are required to login to the computer as Administrator (or equivalent) to the PC to install this product.
- ◆ Stop all running programs before you start the installation.
- ◆ If Anti-Virus software product is installed, temporarily disable the software during the installation of this product.

- ◆ When the screen resolution is 1366 x 768 pixel, perform the following setting.
 - Windows 10
[Windows Taskbar] → Right click → [Taskbar settings] → Check “Automatically hide the taskbar in desktop mode”.
 - Windows 11
[Windows Taskbar] → Right click → [Taskbar settings] → [Taskbar behaviors] → Check “Automatically hide the taskbar”.

- ◆ To ensure continuous normal operation of this software, set the PC so that it would not go into an energy saving mode such as standby mode, sleep mode or execute hibernation. If the PC goes into a standby, sleep mode or execute hibernation, this software may not function properly.
To avoid going into the energy saving or hibernation, perform the following settings.

Right click the desktop to select “Display settings” and click “Power & Sleep” to set the “Sleep” to “Never”.
 - * If there is no setting item for “Sleep”, close the window without setting any items.
As for the “Turn off the display” setting of Windows, you can configure it as usual.

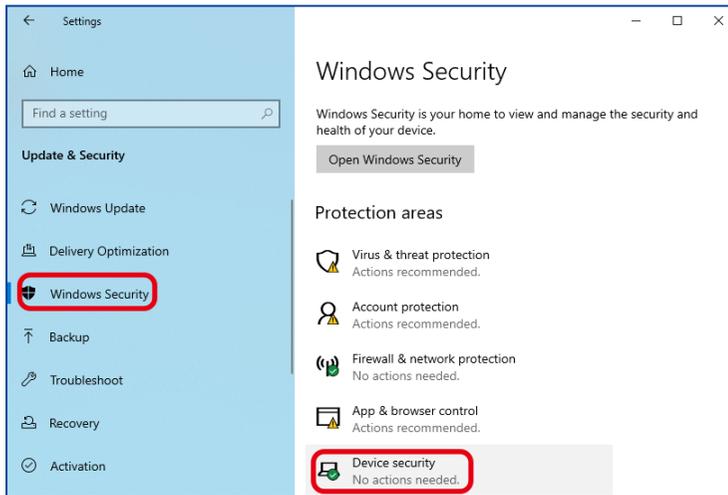
- ◆ Check “Core isolation” from “Windows Security” before inserting U10 USB / U60-FT DIN Network Interface.

Open “Settings” from the Start menu.

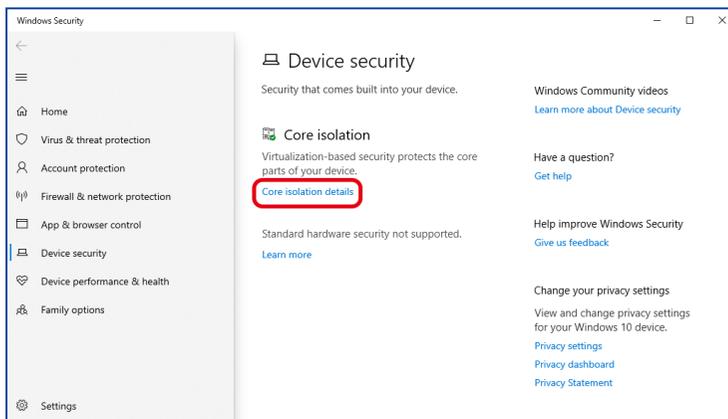
Open “Update & Security”.

Click “Windows Security” at the left menu.

Click “Device security” at the right.

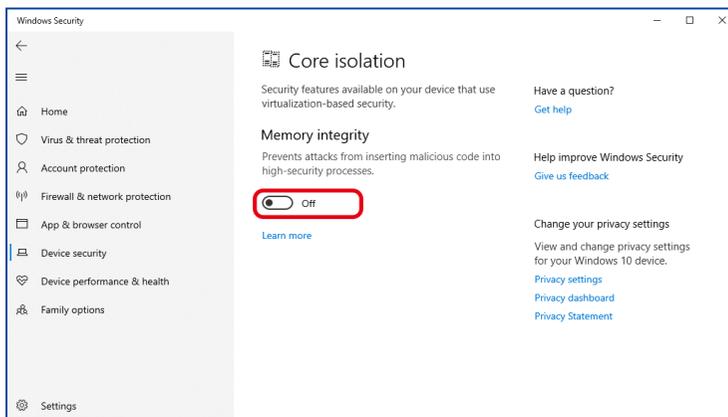


Click “Core isolation details” in the “Core isolation” field on the “Device security” screen.



Confirm that “Off” is selected for “Memory integrity”.

When “On” is selected, set it to “Off” and restart the OS.



6-2 Software Installation

① Insert the WHITE-USB-KEY for the “Web Monitoring Tool for VRF System Ver. x.x” into the WHITE-USB-KEY drive of the PC you are about to install.

② Double click the “setup.exe” stored in the root directory of the WHITE-USB-KEY drive with the mouse.

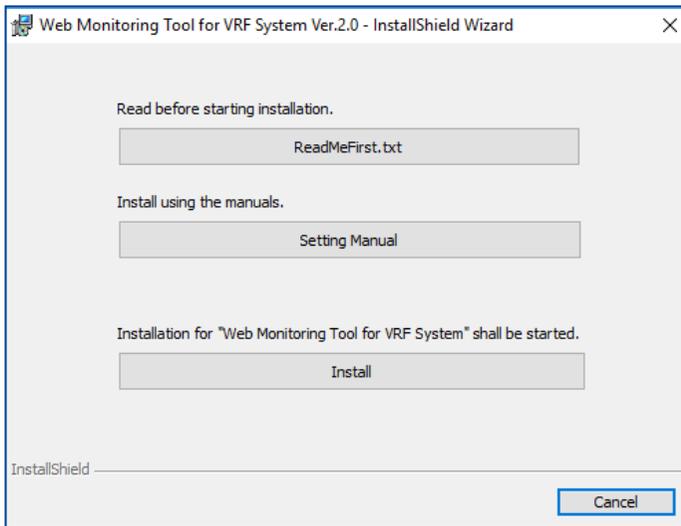
After that, the following installation menu screen is displayed.

To continue installation, click the [Install] button.

* Before starting installation, always check the contents of the Setting Manual.

* The following programs are installed according to the PC environment before the following screen is displayed. (It takes a little time to do it.)

- Microsoft® .NET Framework 3.5 (for windows® 10 and 11, see *.) & Microsoft® .NET Framework 4.8
- Microsoft® SQL Server® 2022 Express



Note



Before beginning installation, close all of the applications not related to the installation (Explorer, etc.).

This is done to prevent the installation from being stopped due to the installation screen becoming hidden behind the other application screens during the installation.

* Install .NET Framework using the chosen method.

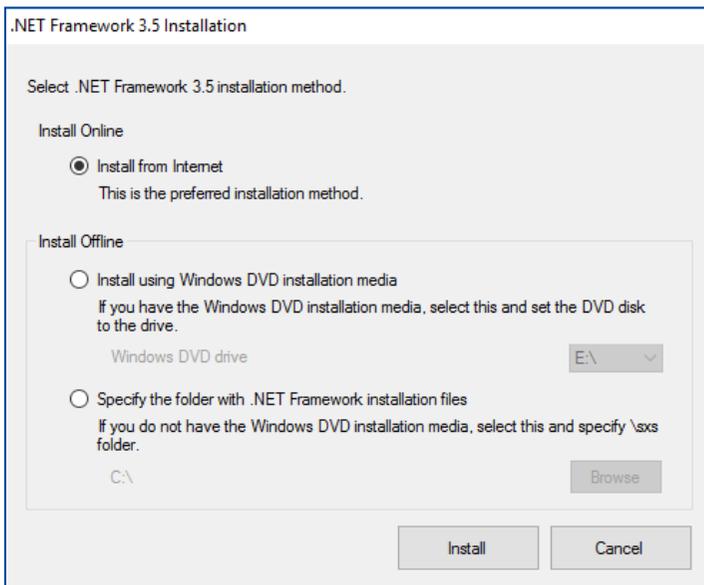
It will not be displayed if .NET Framework has already been installed.

- Install Online (when the PC is connected to internet)
Select “Install from Internet” and click [Install] button.
.NET Framework 3.5 will be downloaded from Microsoft site and will be installed.

- Install Offline (when the PC is not connected to internet)
When the PC is not connected to the internet, the installation media of the Windows you are using is required to install .NET Framework 3.5. Please have the media ready before continuing the following steps.

If you have the installation DVD of the Windows you are using, select “Install using the installation DVD of the Windows you are using”. If you have other types of Windows installation media, check that the “sxs” folder that holds the .NET Framework components exists within that media, and select “Specify the folder with .NET Framework installation files”.

- Install using the installation DVD of the Windows you are using
Insert the installation DVD of the Windows you are using to the DVD drive.
Select that drive and click [Install] button.
When the installation of .NET Framework 3.5 completes, a message “Set the System Tool DVD installation media” is displayed. Insert the WEB MONITORING TOOL DVD again.
- Specify the folder with .NET Framework installation files
Specify the “sxs” folder and click [Install] button.
(The “sxs” folder is where the .NET Framework components are stored).

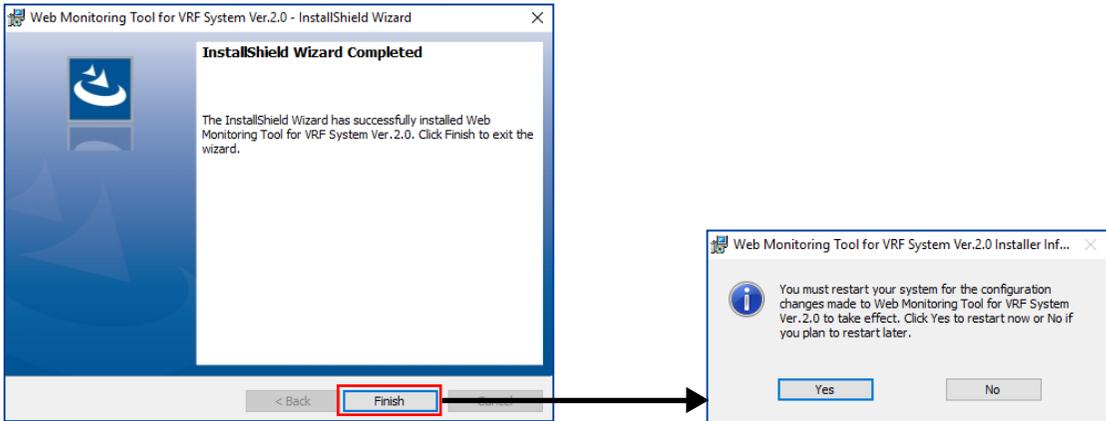


Note Installation of .NET Framework 3.5 requires few minutes to complete. Do not operate the screen until the installation is completed.

- ③ After installation starts, follow the direction on the screen, which will guide you through the installation.

Note If Windows is rebooted during the installation, execute the installation again from ②.

- ④ When installation program ends, “Windows Restart Confirmation Message” will appear. Complete the remaining setup procedures according to the description in the Setting Manual displayed on the screen first.



- ⑤ After all the setup is completed, restart the Windows®.

Note

- Operation to be performed after inserting WIBU-KEY (Software protection key) and when the “Found New Hardware Wizard” screen appears.
 - 1 From the 3 Windows Update Options, select “No, not this time”. Then click [Next] button to continue. This dialog may not always show.
 - 2 Select “Install the software automatically (Recommended).”. Then click [Next] button to continue.
 - 3 When completion dialog appears, click [Finish] button.
- When installing on Windows® 10, 11 you may be asked for permission to continue with the operation. In such cases, select “continue”.
- Some operation may take long time . Please wait at least a couple of minutes.

- For the License Manager, refer to the manual of License Manager.

6-3 Software Removal

Before executing this procedure, be sure to stop the Web Monitoring Tool program if it is running. Also, make sure that WIBU-KEY is not inserted to the PC.

6-3-1 Windows® 10, 11

① Open [Start] → [Control Panel] → [Program and Features] and then remove the following programs.

* For Windows® 10, 11 [Control panel] → set the view mode to “Large Icons” or “Small Icons”.

② Select the program to be removed from the list below and click [Uninstall] button.

- When updating this tool

Target software	Program name
Service Tool	Service Tool for VRF System Ver x.x
Web Monitoring Tool	Web Monitoring Tool for VRF System Ver x.x

- When deleting all including the software related to this tool
(When stopping use, etc.)

Target software	Program name
Service Tool	Service Tool for VRF System Ver x.x
Web Monitoring Tool	Web Monitoring Tool for VRF System Ver x.x
Microsoft® SQL Server® 2022 Express For Removal, perform the contents of *1 in advance.	Microsoft® SQL Server® 2022 Microsoft® SQL Server® 2022 Setup(English) Microsoft® VSS Writer for SQL Server® 2022 Browser for SQL Server® 2022
U10 USB / U60-FT DIN Network Interface driver	Echelon Open LDV x.x
WIBU-KEY	WIBU-KEY Setup (WIBU-KEY Remove)

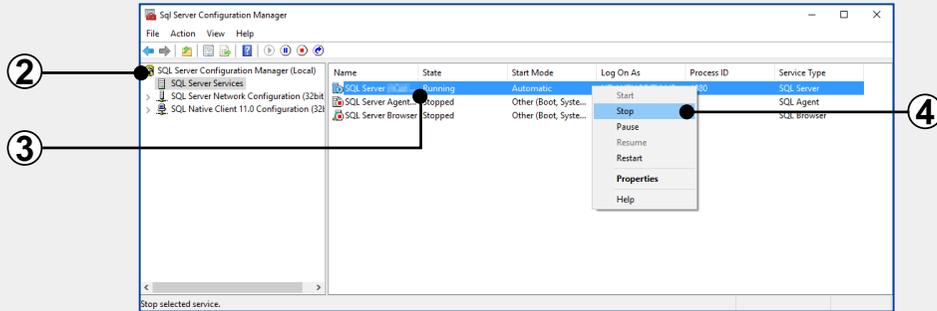
Note



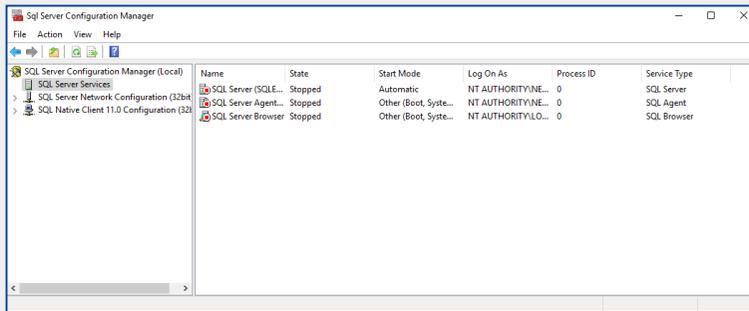
- Programs to be deleted depends on the version of Service Tool or Web Monitoring Tool that is already installed. Not all of the programs listed above may appear.
- If you have removed Microsoft® SQL Server® 2022 Express, make sure that you have deleted the following installation folder.
[Target folder] C:\Program files\Microsoft SQL Sever\MSSQL16.AIRSTAGESQL

*1

- ① Select the menu items in order of “start” → “All Programs” or “All apps” → “Microsoft SQL Server 2022” → “SQL Server Configuration Manager”.
- ② Select “SQL Server Services”.
- ③ Right-click “SQL Server (AIRSTAGESQL)”.
- ④ Select “Stop”.



- ⑤ When [x] is clicked, “SQL Server Configuration Manager” is completed.



- ③ Perform the following “par. 6-3-2 Task scheduler deletion”.

Note When updating this tool, this operation is unnecessary.

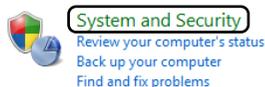
- ④ Restart the Windows.

6-3-2 Task scheduler deletion

① Open the task scheduler screen by sequentially selecting the menu as follows.

- Windows® 10, 11

[Start] → [Control Panel] →



- Windows® 10

→

A screenshot of the Windows 'Administrative Tools' control panel view. The title bar reads 'Administrative Tools'. Below the title bar are four links: 'Free up disk space', 'Defragment your hard drive', 'Create and format hard disk partitions', and 'View event logs'. The 'Schedule tasks' icon is circled in red.

- Windows® 11

A screenshot of the Windows 'Windows Tools' control panel view. The title bar reads 'Windows Tools'. Below the title bar are four links: 'Free up disk space', 'Defragment and optimize your drives', 'Create and format hard disk partitions', and 'View event logs'. The 'Schedule tasks' icon is circled in red.

Note When the control panel view mode is Large Icons or Small Icons, select the menus in the following order:

- Windows® 10

[Start] → [Control Panel] →



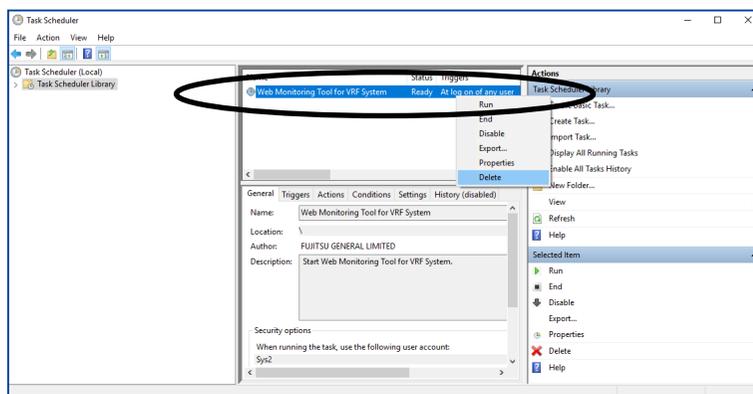
- Windows® 11

→

A screenshot of the Windows 'Windows Tools' control panel view. The title bar reads 'Windows Tools'. Below the title bar are four links: 'Free up disk space', 'Defragment and optimize your drives', 'Create and format hard disk partitions', and 'View event logs'. The 'Schedule tasks' icon is circled in red.

② Delete from the task.

- Select “Task Scheduler Library” from the Task Scheduler left tree and display the task list.



- Select “Web Monitoring Tool for VRF System Vx.x” or “Web Monitoring Tool for VRF System” from the center top row list display and delete it from the right click menu “Delete”.

7. Setting(Server/Client)

7-1 Task Scheduler Setting

Change the auto-restart setting of Web Monitoring Tool when logging in to the Windows, as follows. Be sure to perform the settings, else Web Monitoring Tool may shutdown at a certain point after restart.

- ① Open the task scheduler screen by sequentially selecting the menu as follows.
- Windows® 10, 11

[Start] → [Control Panel] →  System and Security
Review your computer's status
Back up your computer
Find and fix problems

- Windows® 10

→  Administrative Tools
Free up disk space | Defragment your hard drive | Create and format hard disk partitions
View event logs | Schedule tasks

- Windows® 11

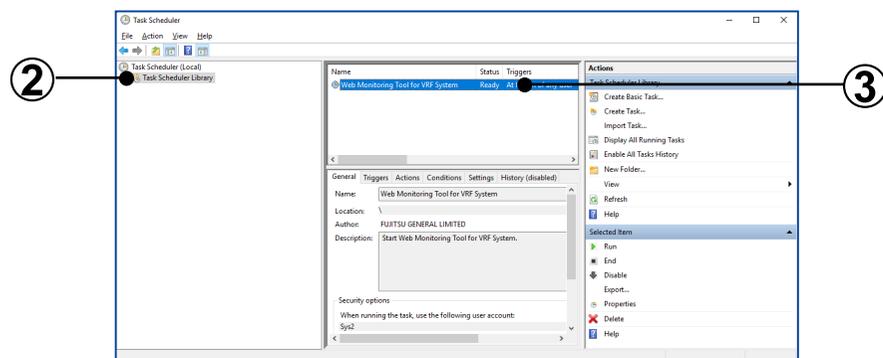
 Windows Tools
Free up disk space | Defragment and optimize your drives | Create and format hard disk partitions |
View event logs | Schedule tasks

Note When the control panel view mode is Large Icons or Small Icons, select the menus in the following order:

• Windows® 10
[Start] → [Control Panel] →  Administrative Tools →  Task Scheduler

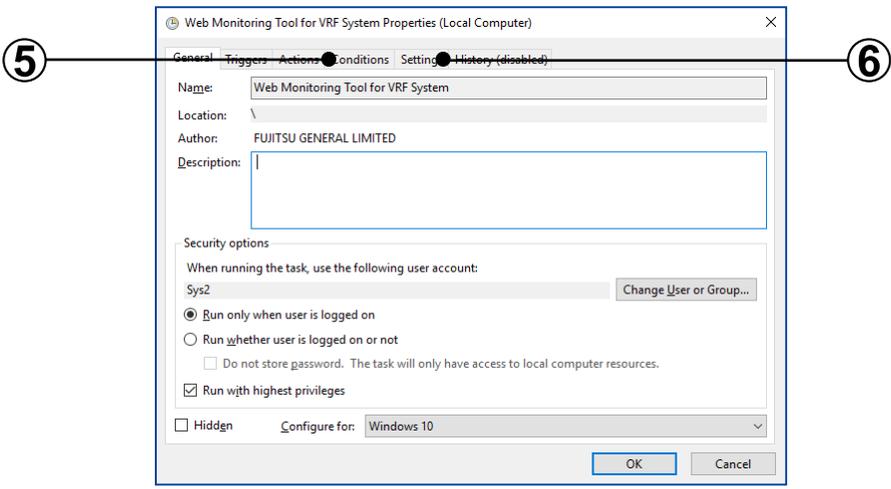
• Windows® 11
 Windows Tools

- ② The screen shown below is displayed.
Select [Task Scheduler(Local)] → [Task Scheduler Library]

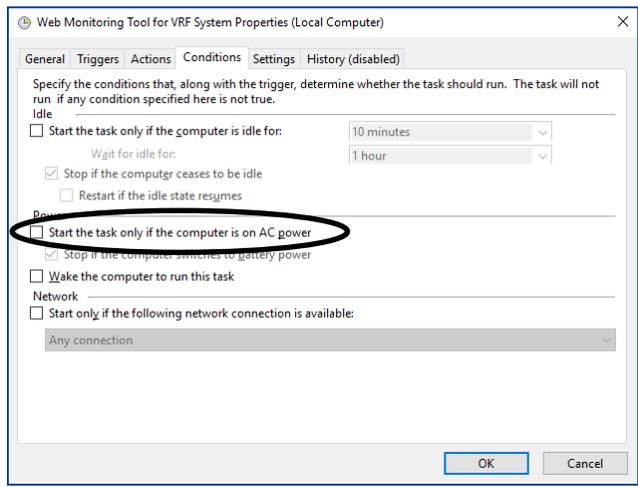


③ Double click the name [Web Monitoring Tool for VRF System Vx.x].

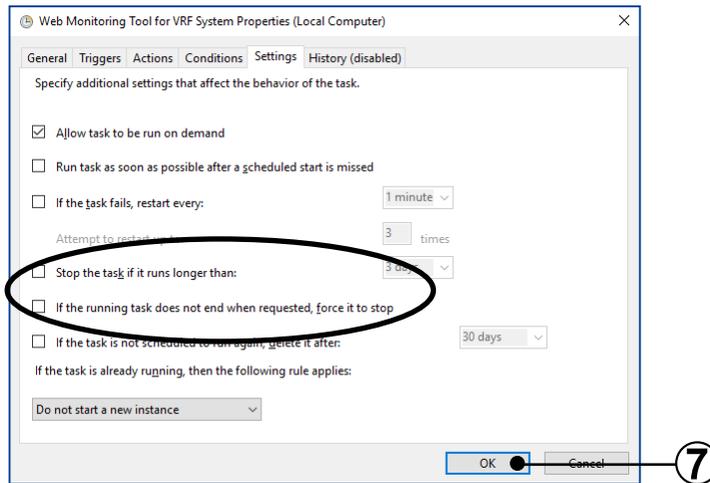
④ The screen shown below is displayed.



⑤ Click the [Conditions] tab.
Remove the check for the [Start the task only if the computer is on AC power].



- ⑥ Click the [Settings] tab.
Remove the checks of the 2 items below.
- [Stop the task if it runs longer than:]
 - [If the running task does not end when requested , force it to stop]
- There is no problem when already unchecked.



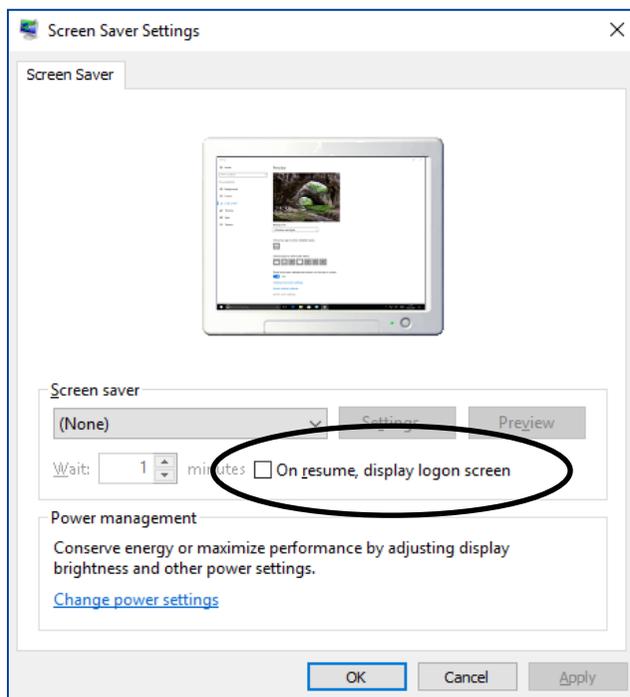
- ⑦ Click the [OK] button.

- ⑧ Restart Windows.

7-2 Windows screen saver setting in remote operation

Before performing remote operation, configure the following setting so that the Windows screen will not be locked.

- 1 Right-click on the desktop and select “Personalize” from the menu.
- 2 Open the Screen Saver Setting screen shown below.
 - Windows10
Lock screen → Screen saver settings → Screen Saver Settings screen
 - Windows11
Lock screen → Screen saver → Screen Saver Settings screen
- 3 Configure the screen saver setting to “(None)”. Uncheck the checkbox of “On resume, display logon screen”.



- 4 Click the [OK] button.



You can use the Login function as an alternative to Windows lock screen on Web Monitoring Tool.

8. Troubleshooting

When trouble occurred during installation work, refer to this section. This section describes assumed problems and how to solve them.

T-1 You cannot check the checkbox of "Users must enter a user name and password to use this computer" at par. 7-1 Automatic starting.

Cause :

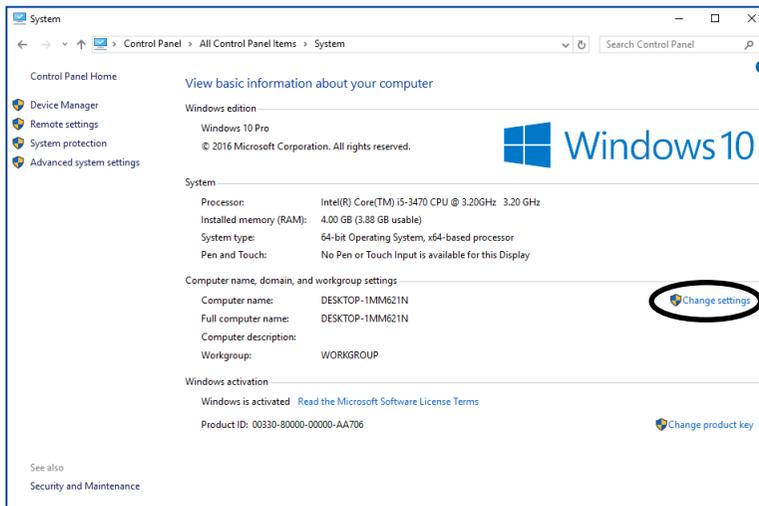
Checkbox cannot be checked when participating at domain by network setting.

Countermeasure :

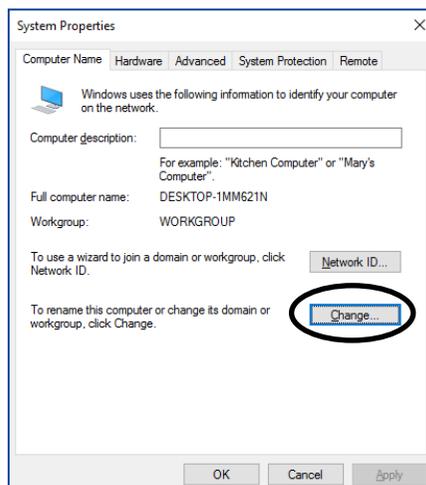
*Screen display method

[Start]→[Control Panel]→[System]→[Change settings]

Click the Computer Name tab of the System Properties screen.



Change the "Member of" setting item from "Domain" to "Workgroup" at the setting screen which is displayed by clicking [Change...] button of the screen shown at the right.



No.	Question
	Answer
1.	<p>When an error, etc. occurs at SQL Server 2022 installation while this application is installed</p> <p>For the identification of reason and the countermeasures, check the contents of log file in the following folder. C:\Program Files\Microsoft SQL Server\160\Setup Bootstrap\Log</p>
2.	<p>The following error message is displayed during installation of this tool and installation is not complete. What should I do? “Error 1722. There is a problem with this windows Installer package. A program run as part of the setup did not finish as expected. Contact your support personnel or package vendor. Action [application name], location:”</p> <p>Wintrust.dll is re-registered by the following procedure.</p> <ul style="list-style-type: none"> • Start the Command Prompt of Windows. Start → All Programs → Accessories → Command Prompt * Start the Command Prompt by “Run as administrator” of the right click menu. • Enter the following command and press the Enter key. regsvr32 Wintrust.dll Press Enter key
3.	<p>The SQLServer installation fails, so the software installation operation does not end normally.</p> <p>This problem occurs because of an issue in how Windows handles the long-path errors. Create a New folder directly beneath the root of drive, put the installer in the created folder, and then start the software installation operation again. ex)C:\xxxxx\“Installer file”</p>

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