

Unified Controller

nv Series

Integrated Controller

Vseries

Engineering Tool 4

–Setup–

Notes

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- Medical devices such as life supporting devices and devices for surgical units.

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- Main unit control systems of nuclear power plants, safety protection systems of nuclear facilities, and other systems that are critical for safety
- Operation control systems of mass transportation systems and air traffic control systems

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: Note :
:

: Use your cellular phone or PHS 1 meter or more away from the product main unit in operation, :
: various transmission cables, and I/O bus cable. Otherwise, the system may malfunction. :
:-----

Introduction

Unified Controller nv series/Integrated Controller V series Engineering Tool 4 ("nV-Tool4"), Integrated Controller V series Engineering Tool 3 ("V-Tool3") and Integrated Controller V series Engineering Tool 2 ("V-Tool2") (Hereafter, V-Tool4, V-Tool3, and V-Tool2 are described as V-Tool.) are the software program for creating control programs for the Unified Controller nv series and Integrated Controller V series and performing operation checks and maintenance.

This operation manual mainly describes setup, version upgrade, and deletion of Unified Controller nv series/Integrated Controller V series Engineering Tool 4.

The following table shows the names and product codes of Engineering Tool 4(Ver.4).

Name	Product code
Unified Controller nv series/Integrated Controller V series Engineering Tool 4 Standalone Version (Japanese version)	HET81J4SS
Unified Controller nv series/Integrated Controller V series Engineering Tool 4 Standalone Version (English version)	HET81E4SS
Unified Controller nv series/Integrated Controller V series Engineering Tool 4 Client-Server Version (Japanese version)	HET82J4SS
Unified Controller nv series/Integrated Controller V series Engineering Tool 4 Client-Server Version (English version)	HET82E4SS

The following table shows the names and product codes of Engineering Tool 3(Ver.3).

Name	Product code
Integrated Controller V series Engineering Tool 3 Standalone Version (Japanese version)	GET91J3SS
Integrated Controller V series Engineering Tool 3 Standalone Version (English version)	GET91E3SS
Integrated Controller V series Engineering Tool 3 Client-Server Version (Japanese version)	GET92J3SS
Integrated Controller V series Engineering Tool 3 Client-Server Version (English version)	GET92E3SS

The following table shows the names and product codes of Engineering Tool 2(Ver.2).

Name	Product code
Integrated Controller V series Engineering Tool 2 Standalone Version (Japanese version)	GET91J2SS
Integrated Controller V series Engineering Tool 2 Standalone Version (English version)	GET91E2SS
Integrated Controller V series Engineering Tool 2 Client-Server Version (Japanese version)	GET92J2SS
Integrated Controller V series Engineering Tool 2 Client-Server Version (English version)	GET92E2SS

This operation manual consists of the following chapters:

- Chapter 1 Conditions of the personal computer
Describes the conditions of the PC to which the V-Tool 4 is installed.
- Chapter 2 Setting up the V-Tool
Describes how to set up the V-Tool.
- Chapter 3 Performing version upgrade of the V-Tool
Describes how to perform version upgrade of the V-Tool.
- Chapter 4 Deleting the V-Tool
Describes how to delete the V-Tool from the PC.

- The setup methods for the "standalone version" and "client-server version" are different.
Read the corresponding section in each chapter.
- To set up the V-Tool to the PC for the first time, read Chapter 1 and Chapter 2.
- To perform version upgrade of the V-Tool in the PC with the V-Tool installed, read Chapter 3.
- To delete the V-Tool from the the PC with the V-Tool installed, read Chapter 4.

(Note 1) Make sure to read ReadMe.txt.

ReadMe.txt describes cautions on setup and how to restore data.

The file is included in the setup CD.

The operation manuals of the V-Tool are as follows:

- Setup :6F8C1291
- Basic :6F8C1290

There is the following related document. Read it as necessary.

- Programming Instructions Manual :6F8C1226

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Chapter 1

Conditions of the Personal Computer

This chapter describes the conditions of the PC to which the V-Tool is installed.

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1.1 Standalone Version

The following table shows the environment in which the V-Tool stand-alone version ("S/A" hereafter) can be used.

■ Operating environment

Item	Condition
Hardware type	PC/AT-compatible machine
Processor	[In case of Windows XP] <ul style="list-style-type: none"> • Intel Pentium III 1.0GHz or greater [In case of Windows Vista] <ul style="list-style-type: none"> • Intel Core2 1GHz or greater
Required memory	[In case of Windows XP] <ul style="list-style-type: none"> • 384MB or more [In case of Windows Vista] <ul style="list-style-type: none"> • 1GB or more
Hard disk capacity	Free space of 500MB or more is required in the partition where the tool is set up.
Display	Video display adaptor that can use resolution of 1024*768 pixels and 256 colors
Disk device	CD-ROM drive (required only during setup)
Peripheral device	<ul style="list-style-type: none"> • Display • Keyboard • Mouse • Serial port • RS-232C cable for Engineering Tool • Ethernet10M or 100M network adaptor (required only for Ethernet transmission)
Operating system	<ul style="list-style-type: none"> • Microsoft Windows XP Professional + Service Pack1 or 2 • Microsoft Windows Vista Business + Service Pack1 • Microsoft Windows Vista Ultimate + Service Pack1
Other software	Microsoft Internet Explorer Ver.6 (required only for the online manual)

As the cables for the Engineering Tool, use the following standard items.

Item	Specification	Product code
RS-232C cable	<ul style="list-style-type: none"> For the Model 3000 or Model 2000, up to 15m With two 9-pin D-sub connectors 	ZCDEYAA0121(1m) ZCDEYAA0221(2m) ZCDEYAA0321(3m) ZCDEYAA0521(5m) ZCDEYAA1021(10m) ZCDEYAA1521(15m)
	<ul style="list-style-type: none"> For the Model 1000, up to 15m With a 9-pin D-sub connector and 8-pin modular connector 	GCU501*CS(1m) GCU502*CS(2m) GCU503*CS(3m) GCU505*CS(5m) GCU510*CS(10m) GCU515*CS(15m)

■ Restrictions

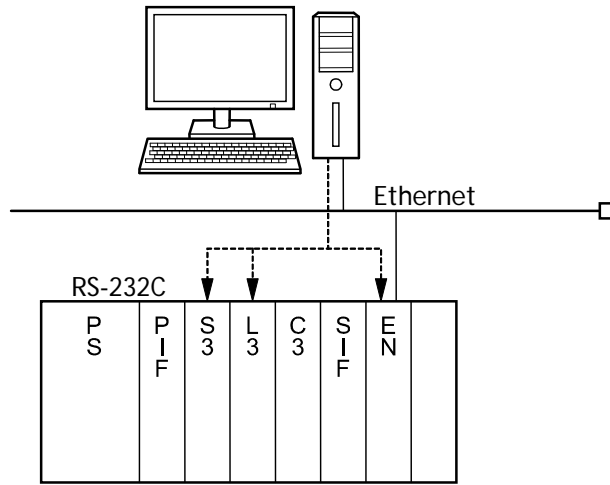
- Do not mix the V-Tool (Ver1, Ver2 and Ver.3) and nV-Tool (Ver.4), the standalone version and client-server version, or Japanese version and English version in the same setup partition.
- To install the different versions above mixed in one PC, use separate setup partitions.
- To use the Japanese version of the V-Tool, use the Japanese version of the OS.
- To use the English version of the V-Tool, use the English or Japanese version of the OS.
- Files created with the Japanese version of the V-Tool cannot be used in the English version of the V-Tool.
- Files created with the English version of the V-Tool can be used in the Japanese version of the V-Tool.
- The number of clients that the controller can access simultaneously is the following.

Unified Controller nv series : Max 8

Integrated Controller V series : Max 4

If more clients access the controller simultaneously, reduced speed or busy state may occur.

■ Configuration example of the S/A system (V series)



1.2 Client-server Version

1

The following table shows the environment in which the V-Tool client-server version ("C/S" hereafter) can be used.

■ Operating environment (client)

Item	Condition
Hardware type	PC/AT-compatible machine
Processor	[In case of Windows XP] <ul style="list-style-type: none"> • Intel Pentium III 1.0GHz or greater [In case of Windows Vista] <ul style="list-style-type: none"> • Intel Core2 1GHz or greater
Required memory	[In case of Windows XP] <ul style="list-style-type: none"> • 384MB or more [In case of Windows Vista] <ul style="list-style-type: none"> • 1GB or more
Hard disk capacity	Free space of 500MB or more is required in the partition where the tool is set up.
Display	Video display adaptor that can use resolution of 1024*768 pixels and 256 colors
Disk device	CD-ROM drive (required only during setup)
Peripheral device	<ul style="list-style-type: none"> • Display • Keyboard • Mouse • Serial port • RS-232C cable for Engineering Tool • Ethernet10M or 100M network adaptor (required only for Ethernet transmission)
Operating system	<ul style="list-style-type: none"> • Microsoft Windows XP Professional + Service Pack1 or 2 • Microsoft Windows Vista Business + Service Pack1 • Microsoft Windows Vista Ultimate + Service Pack1
Other software	Microsoft Internet Explorer Ver.6 (required only for the online manual)

■ Operating environment (server)

Item	Condition
Hardware type	PC/AT-compatible machine
Processor	[In case of Windows XP] <ul style="list-style-type: none"> • Intel Pentium 4 1.7GHz or greater [In case of Windows Vista] <ul style="list-style-type: none"> • Intel Core2 2GHz or greater [In case of Windows Server 2003 R2]

	<ul style="list-style-type: none"> • Intel XEON 3GHz or greater • Intel Core2 2GHz or greater
Required memory	[In case of Windows XP] <ul style="list-style-type: none"> • 512MB or more [In case of Windows Vista or Windows Server 2003 R2] <ul style="list-style-type: none"> • 1GB or more
Hard disk capacity	Free space of 500MB or more is required in the partition where the tool is set up.
Display	Video display adaptor that can use resolution of 1024*768 pixels and 256 colors
Disk device	CD-ROM drive (required only during setup)
Peripheral device	<ul style="list-style-type: none"> • Display • Keyboard • Mouse • Serial port • RS-232C cable for Engineering Tool • Ethernet10M or 100M network adaptor (required only for Ethernet transmission)
Operating system	<ul style="list-style-type: none"> • Microsoft Windows XP Professional+Service Pack1 or 2 • Microsoft Windows Vista Business + Service Pack1 • Microsoft Windows Vista Ultimate + Service Pack1 • Microsoft Windows Server 2003 R2 Enterprise Edition + Service pack2
Other software	Microsoft Internet Explorer Ver.6 (required only for the online manual)

As the cables for the Engineering Tool, use the following standard items.

Item	Specification	Product code
RS-232C cable	<ul style="list-style-type: none"> • For the Model 3000 or Model 2000, up to 15m With two 9-pin D-sub connectors 	ZCDEYAA0121(1m) ZCDEYAA0221(2m) ZCDEYAA0321(3m) ZCDEYAA0521(5m) ZCDEYAA1021(10m) ZCDEYAA1521(15m)
	<ul style="list-style-type: none"> • For the Model 1000, up to 15m With a 9-pin D-sub connector and 8-pin modular connector 	GCU501*CS(1m) GCU502*CS(2m) GCU503*CS(3m) GCU505*CS(5m) GCU510*CS(10m) GCU515*CS(15m)

■ Restrictions

- Do not mix the V-Tool (Ver1, Ver2 and Ver.3) and nV-Tool (Ver.4), the standalone version and client-server version, or Japanese version and English version in the same setup partition.
- To install the different versions above mixed in one PC, use separate setup partitions.
- To use the Japanese version of the V-Tool, use the Japanese version of the OS.
- To use the English version of the V-Tool, use the English or Japanese version of the OS.
- Files created with the Japanese version of the V-Tool cannot be used in the English version of the V-Tool.
- Files created with the English version of the V-Tool can be used in the Japanese version of the V-Tool.
- In the client-server configuration, set up the server and client versions of the software in the server PC and client PC respectively, from the client-server version CD-ROM.
- Up to 8 clients can access the server simultaneously. If more clients access the server simultaneously, reduced speed or busy state may occur.
- The number of clients that the controller can access simultaneously is the following.

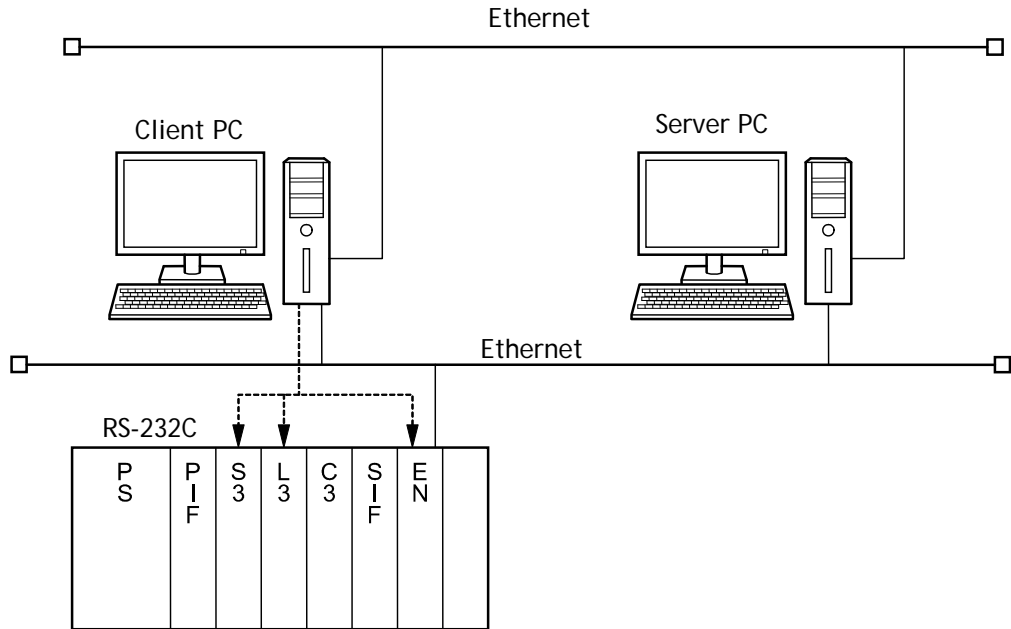
Unified Controller nv series : Max 8

Integrated Controller V series : Max 4

If more clients access the controller simultaneously, reduced speed or busy state may occur.

- As in the case of general client-server software, in the client-server configuration, the speed may decrease due to an instantaneous increase of traffic even if the number of clients is within the maximum value.

■ Configuration example of the C/S system (V series)





Chapter 2

Setting Up the V-Tool

This chapter describes how to set up the V-Tool.

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2.1 Standalone Version

This section describes how to set up the V-Tool to the PC for the first time.

First, read "Conditions of the personal computer" thoroughly and prepare the following.

- Personal computer
- Operating system CD
- V-Tool CD

Follow the following steps to perform the settings.

- 2.1.1 Step 1: Setting up the Windows platform (S/A)
- 2.1.2 Step 2: Setting up the V-Tool (S/A)
- 2.1.3 Step 3: Registering users of the V-Tool (S/A)
- 2.1.4 Step 4: Logging into the V-Tool (S/A)
- 2.1.5 Step 5: Starting up and exiting from the V-Tool (S/A)(S/A)
- 2.1.6 Step 6: Starting up from the HMI (S/A)

◆ Note

If any of the following versions of the V-Tool is already installed, uninstall it with "Add or Remove Applications" in advance.

- nv series/V series Engineering Tool Ver.4
- V series Engineering Tool Ver.3, Ver.2, or Ver.1

2.1.1 Step 1: Setting up the Windows platform (S/A)

If Windows OS has not been set up, perform setup by following the setup manual of the OS. In the explanation below, it is assumed that standard setup of Windows OS has been completed.

The minimum setting of the Windows platform required for running the V-Tool is as follows.

Perform them with the administrator authority.

- The User Account Control (UAC) [For Windows Vista]
- Turn the User Account Control (UAC) off [For Windows Vista]
- Setting up the network
- Setting the IP address
- Setting the Windows firewall [For Windows XP SP2 or Windows Vista]

Set here ahead according to OS used.

[For WindowsXP]

To communicate with the controller via Ethernet, set up the network and IP address.

If only the RS-232C cable is used, proceed to "2.1.2 Step 2: Setting up the V-Tool (S/A)"

2

■ Setting up the network

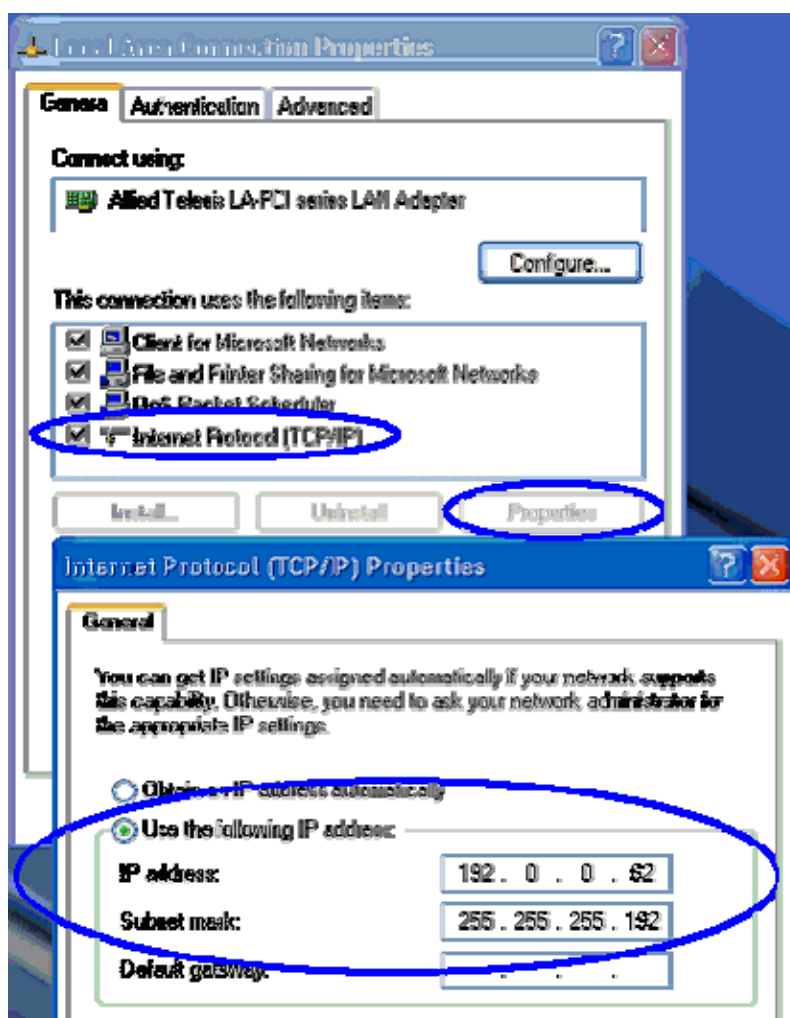
The "network" here indicates 10BASE-T, 10BASE2, 10BASE5, and 100BASE-T Ethernet that connects the V-Tool and the controller of the nv series and V series. A network adaptor is a peripheral device for connection to Ethernet. Depending on the manufacturer, it is called a "LAN card," "network card," or "Ethernet PC card."

If the PC has no network adaptor installed, install a network adaptor with the 10BASE-T, 10BASE2, 10BASE5, or 100BASE-T interface. For the installation method, refer to the manual of the PC and network adaptor.

To make the network adaptor recognized by the PC, dedicated driver software must be installed. For installation of the driver, refer to the manual of the network adaptor.

■ Setting the IP address

- An IP address is the address of the network adaptor (node) on Ethernet. In this section, set the IP address of the V-Tool itself.
- From the [Start] menu, start [Control Panel].
- In [Network Connection], right-click [LAN] used for connection to the nv series / V series, and select [Properties].
- Select [Internet Protocol (TCP/IP)] used for connection to the nv series / V series, and click the [Properties] button.
- Specify [IP address] and [Subnet mask] according to the LAN configuration of the nv series / V series system.



◇ Remark

- For the assignment of IP addresses, refer to "Connecting to the controller" in the Basic manual.

■ Setting the Windows firewall

Set this if OS is the Windows XP SP2.

This section describes how to set up the Windows firewall.

The Windows firewall has been set to [On] by default.

To run the V-Tool, it must be set to [Off].

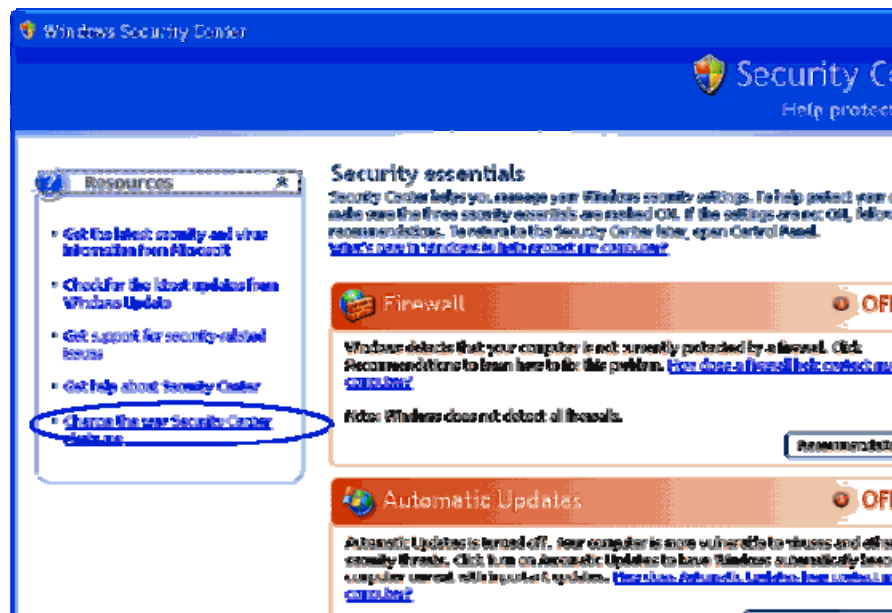
- From the Start menu, open [Control Panel], and run [Windows Firewall].
- Select [Off (not recommended)], and click the OK button.



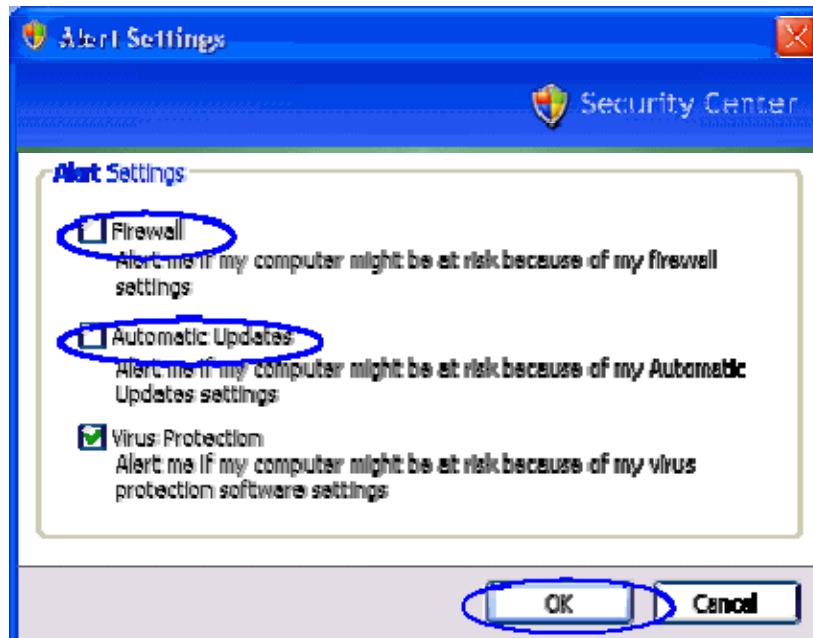
If the Windows firewall is set to [Off], a warning will be generated periodically.

To stop the warning, do the following.

- From the Start menu, open [Control Panel], and run [Security Center].
- Click " Change the way Security Center alerts me " in [Resources] in the left side of the screen.



- In [Alert Settings], clear the [Firewall] and [Automatic Updates] check boxes, and lick the OK button.



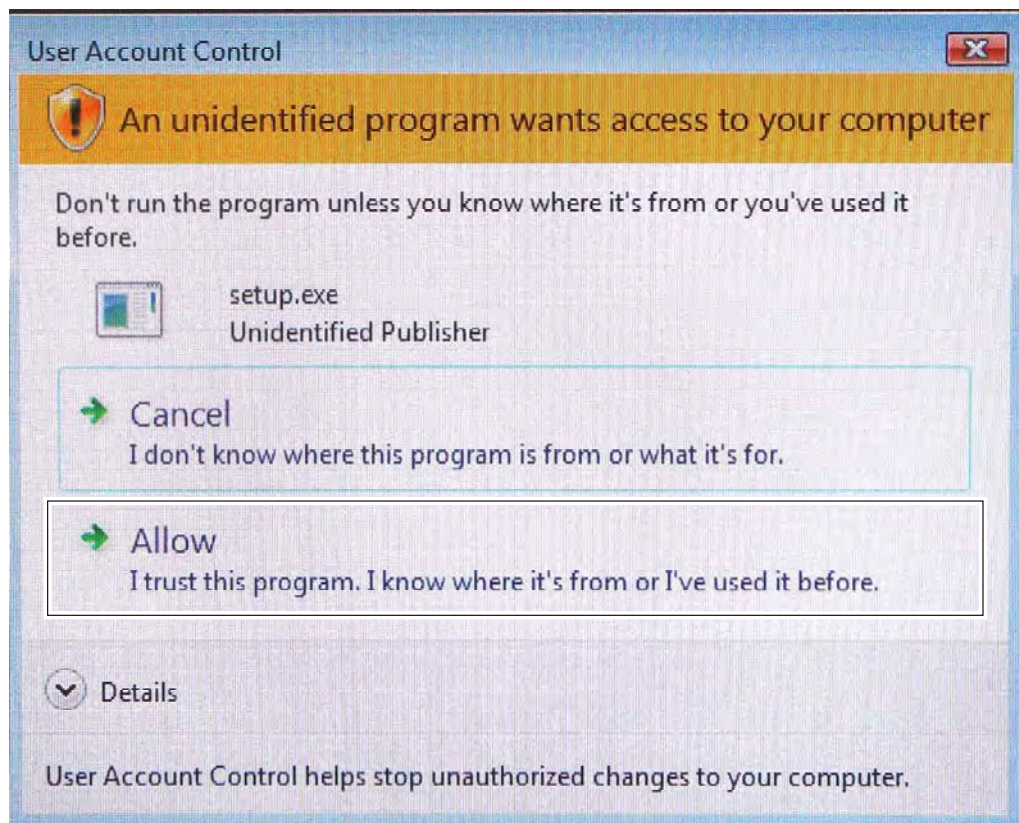
[For Windows Vista]

■ The User Account Control (UAC)

Installing or starting V-Tool requires confirmation to users on Windows Vista. When the following windows are shown, please click button [Allow] or [Continue].

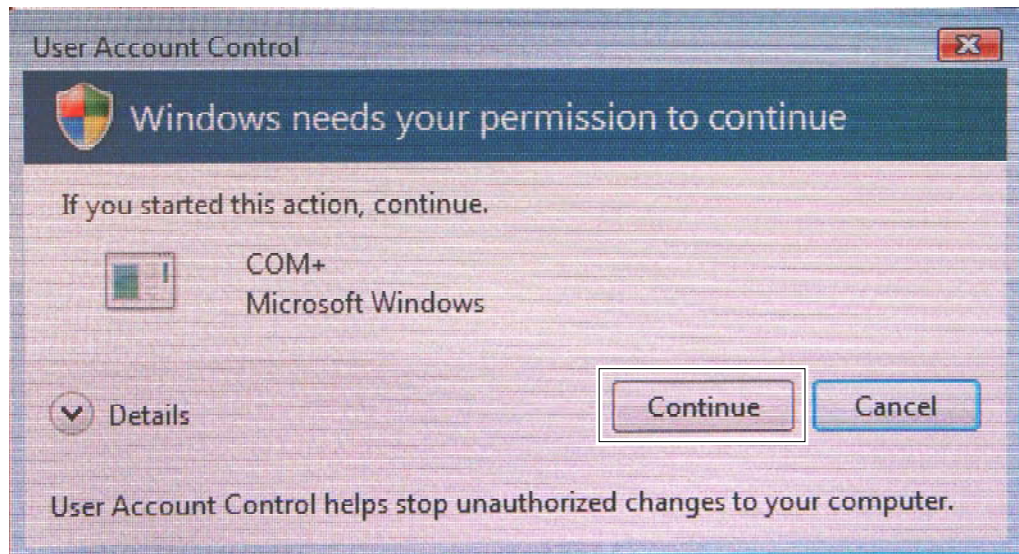
◇ Remark

- This document describes instruction without these windows.



◇ Remark

- This is a sample window, and program name "setup.exe" is example. It changes by using software.



◇ Remark

- This is a sample window, and window's name "COM+" is example. It changes by using window.

■ Turn the User Account Control (UAC) off

Not to display confirmation window, please change setting.

◇ Remark

- Turn off setting could enable compromise. Be sure that it is your own responsibility.

Turn off setting is as follows:

- Open [Control Panel] from the menu [Start], Click <User Accounts and Family Safety>, and click <User Accounts> again on displaying window.

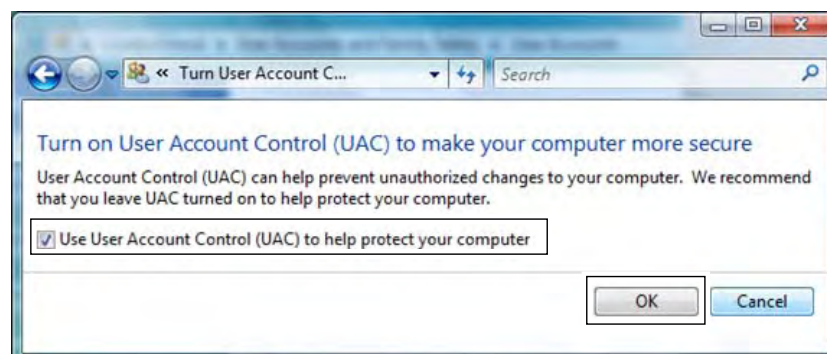




- Click <Turn User Account Control on or off>.
- Click button [Continue(C)] on displaying dialog.



- Check-off <Use User Account Control (UAC) to help protect your computer>, and click button [OK].



■ Setting up the network

To communicate with the controller via Ethernet, set up the network and IP address.

If only the RS-232C cable is used, proceed to "2.1.2 Step 2: Setting up the V-Tool (S/A)"

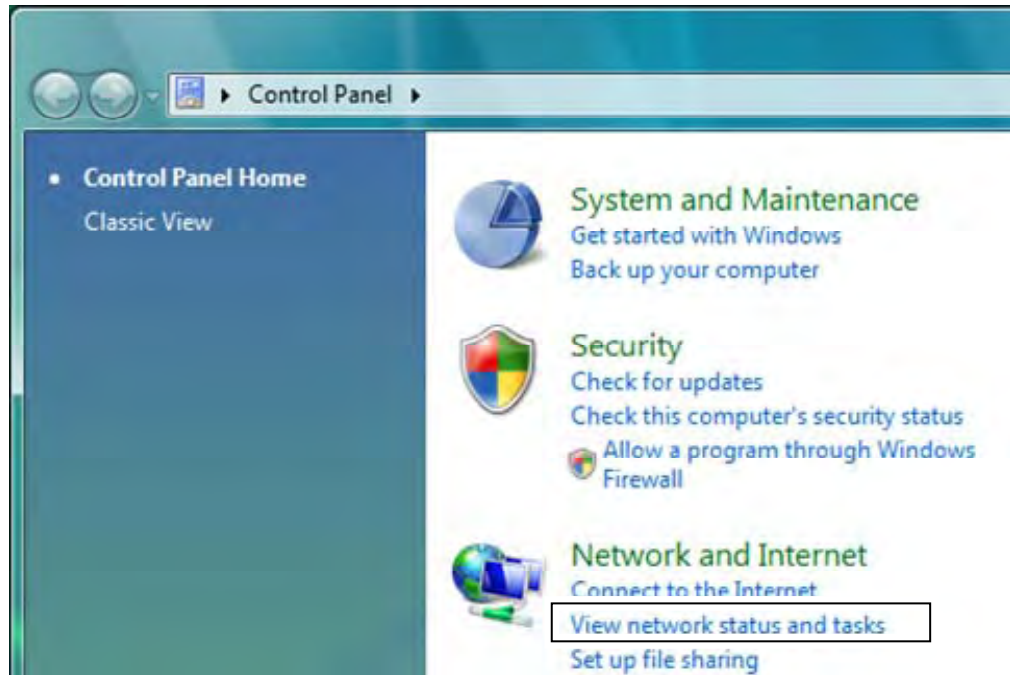
The "network" here indicates 10BASE-T, 10BASE2, 10BASE5, and 100BASE-T Ethernet that connects the V-Tool and the controller of the V series and nv series. A network adaptor is a peripheral device for connection to Ethernet. Depending on the manufacturer, it is called a "LAN card," "network card," or "Ethernet PC card."

If the PC has no network adaptor installed, install a network adaptor with the 10BASE-T, 10BASE2, 10BASE5, or 100BASE-T interface. For the installation method, refer to the manual of the PC and network adaptor.

To make the network adaptor recognized by the PC, dedicated driver software must be installed. For installation of the driver, refer to the manual of the network adaptor.

■ Setting the IP address

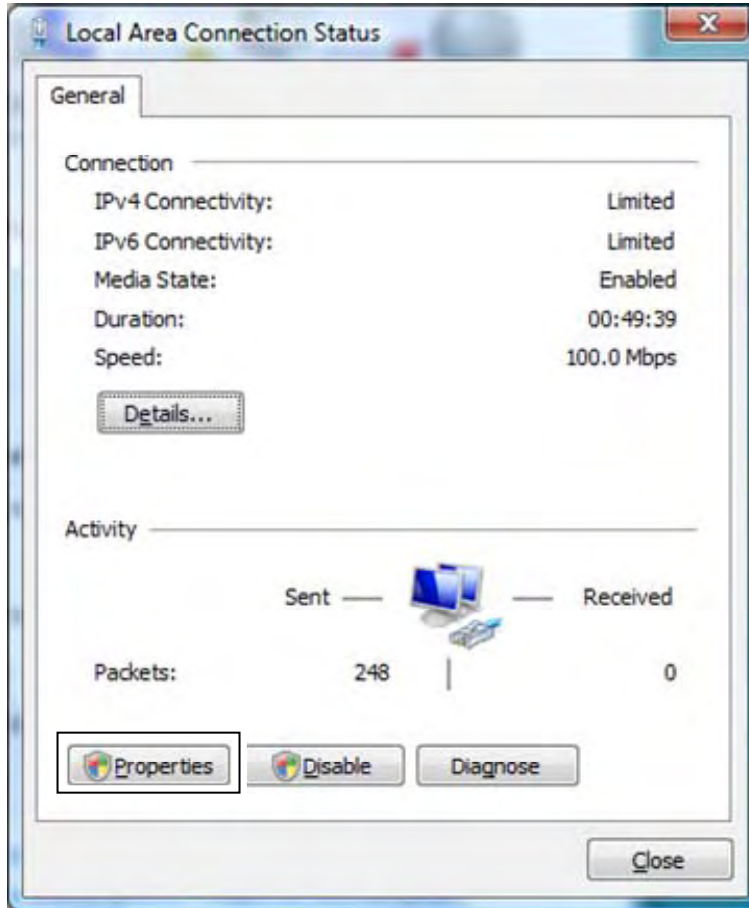
- An IP address is the address of the network adaptor (node) on Ethernet. In this section, set the IP address of the V-Tool itself.
- From the [Start] menu, start [Control Panel].
- Click [View network status and tasks>



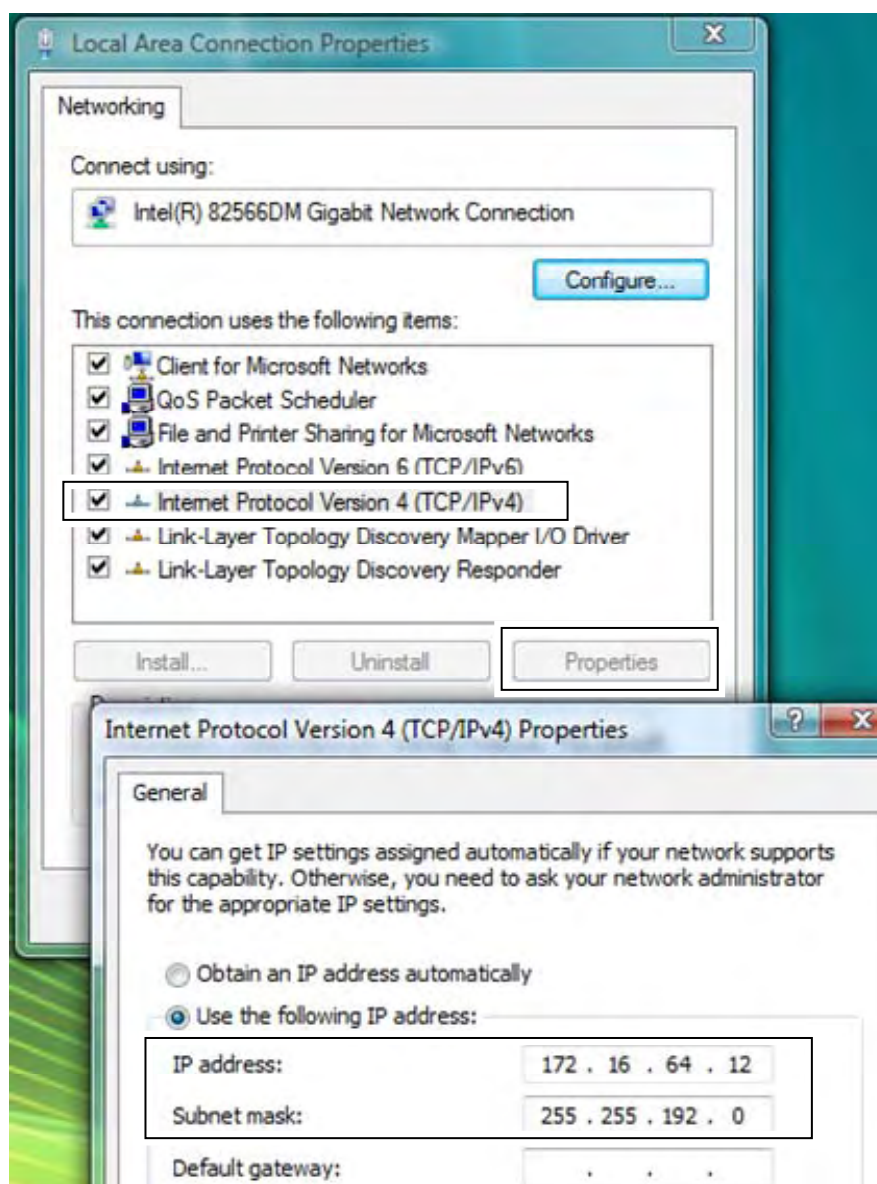
- Click [View status].



- Click [Properties].



- Select [Internet Protocol Version 4 (TCP/IPv4)] used for connection to the V series, and click the [Properties] button.
- Specify [IP address] and [Subnet mask] according to the LAN configuration of the nv series / V series system.



◇ Remark

- For the assignment of IP addresses, refer to "Connecting to the controller" in the Basic manual.

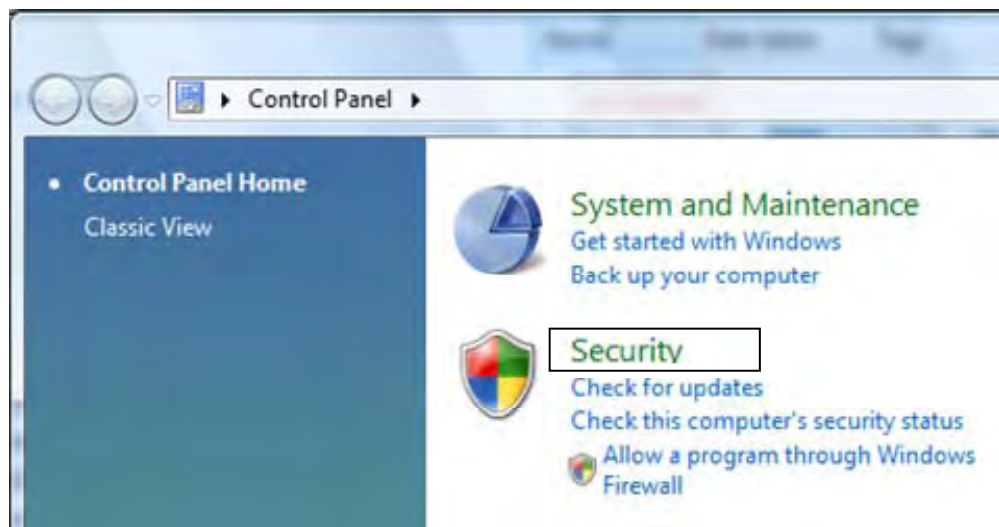
■ Setting the Windows firewall

This section describes how to set up the Windows firewall.

The Windows firewall has been set to [On] by default.

To run the V-Tool, it must be set to [Off].

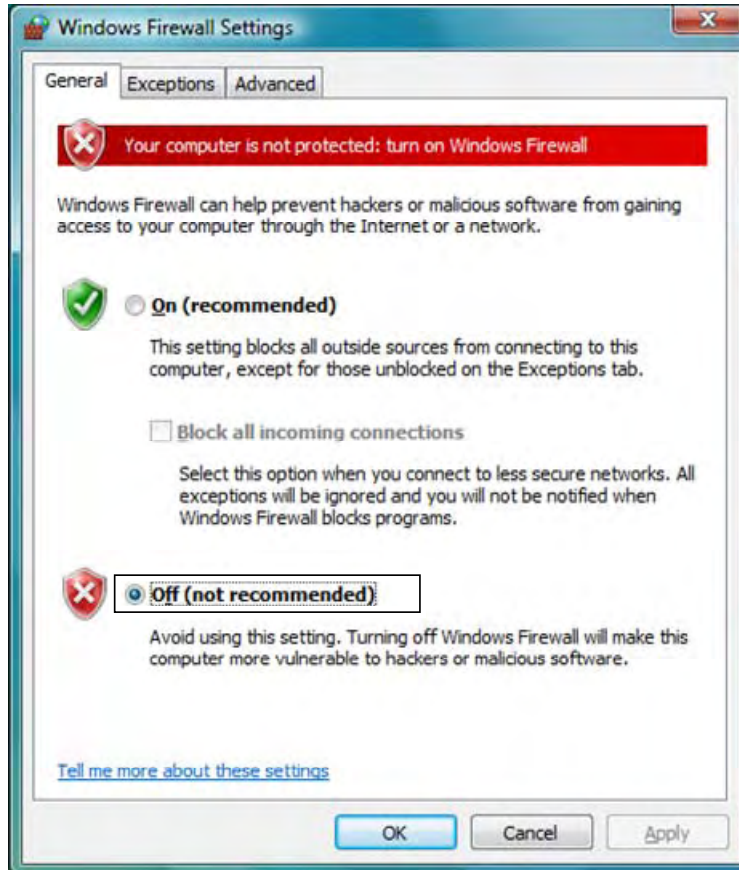
- From the Start menu, open [Control Panel], click [Security].



- Click [Turn Windows Firewall on or off].



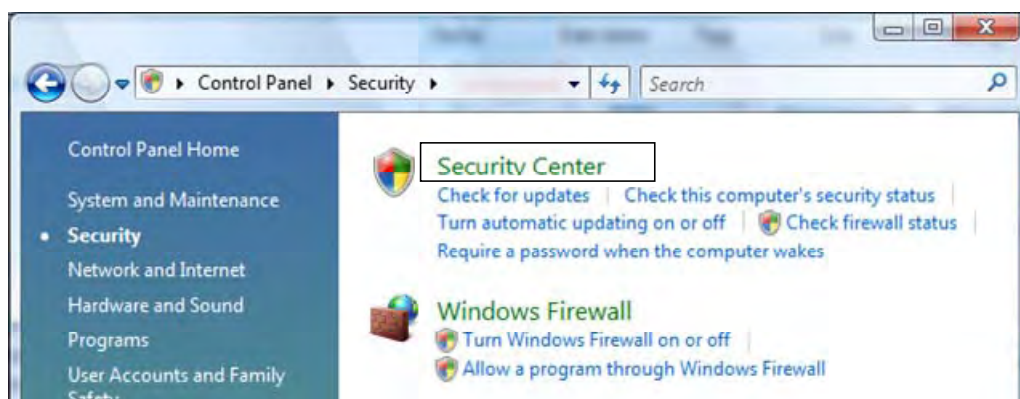
- Select [Off (not recommended)], click [OK] button.



If the Windows firewall is set to [Off], a warning will be generated periodically.

To stop the warning, do the following.

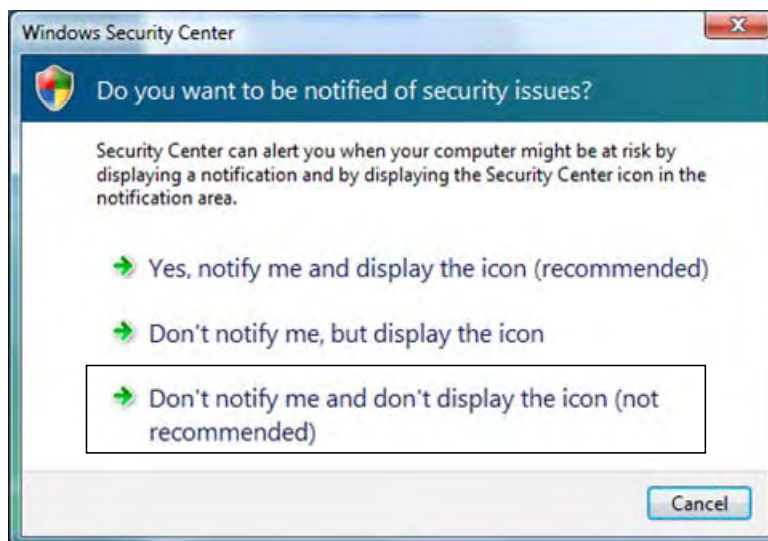
- From the Start menu, open [Control Panel], click [Security], and run [Security Center].



- Click "Change the way Security Center alerts me" in the left side of the screen.



- In [Windows Security Center], click [Don't notify me and don't display the icon (not recommended)].



2.1.2 Step2: Setting up the V-Tool (S/A)

Set up the V-Tool software to the PC in the following steps.

Perform them with the administrator authority.

The overall setup is described below.

- Exit from all the applications that are running.
- If the real-time search service of antivirus software is running, stop the service until V-Tool setup is complete. If the setup is performed while the antivirus software is running, it may take longer.
- From the Start menu, Open [Control Panel] and uninstall V-Tool if it is installed.
- Mount the V-Tool CD on the CD-ROM drive.

The setup screen is automatically displayed. Setup.exe in CD if it doesn't start automatically.

- Make the folder at the [Destination Folder] that both tool administrator and users can access.
- Perform actions according to the messages. If the completion message is displayed, the V-Tool has been set up successfully.

◆ Note

- If Ver.1 of the V series Engineering Tool has been installed previously, the overwrite confirmation message may be displayed during the setup. In this case, select Continue, not Cancel.

■ Setting security of the tool administrator folder

- The tool administrator indicates a person who registers users who can use the V-Tool and maintains the user product database.
- The application of V-Tool that the tool administrator uses is the Product manager and the DB maintenance, etc. These software is arranged in start menu < All Programs >> nv series Engineering Tool 4 (Management)>
- The application exists in the [Maintenance] folder under the destination folder of V-Tool. The [Maintenance] folder is said the tool administrator folder.

◆ Note

- When installing it, an old version (Earlier version than V4.2.0, V3.10.0 or V2.14.0) was able to specify the folder for the tool administrator. However, the folder is fixation because it improves user's convenience.

- Any user can use the application that the tool administrator uses in default. However, if security is set, only the tool administrator can use it.

If no security is considered, the setting in this section is not required.

Proceed to "2.1.3 Step 3: Registering users of the V-Tool (S/A)".

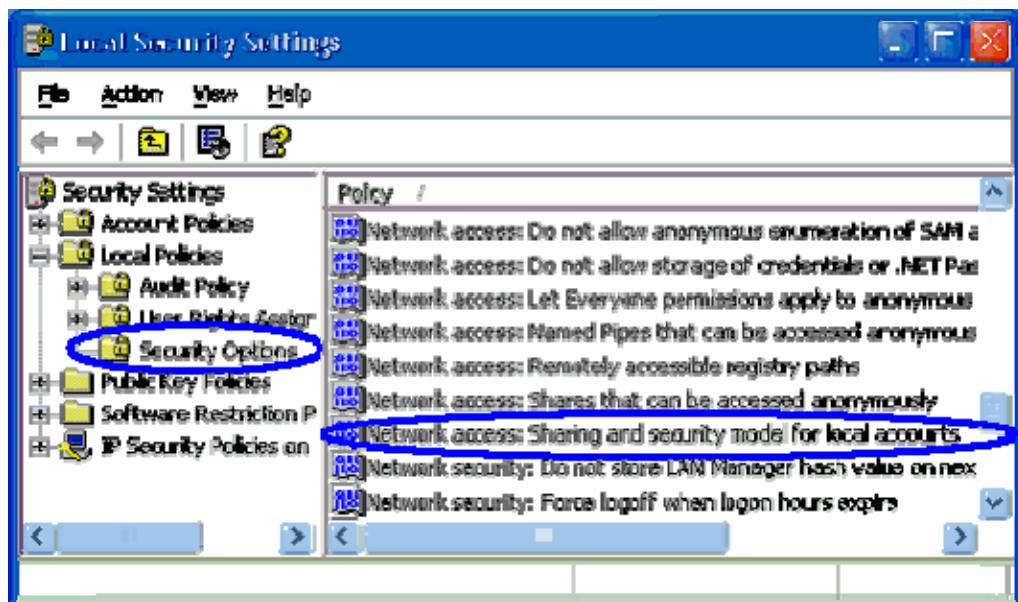
◆ Note

- Set the following if it set security by using an old version for the tool administrator folder.

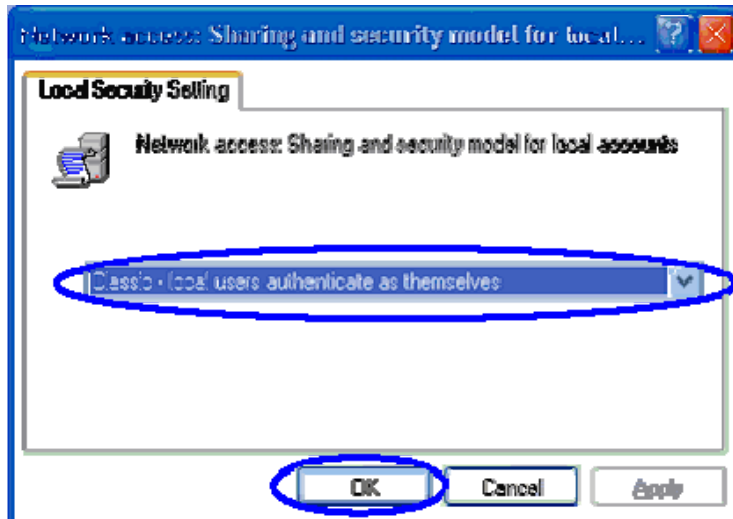
Set here ahead according to OS used.

[For WindowsXP]

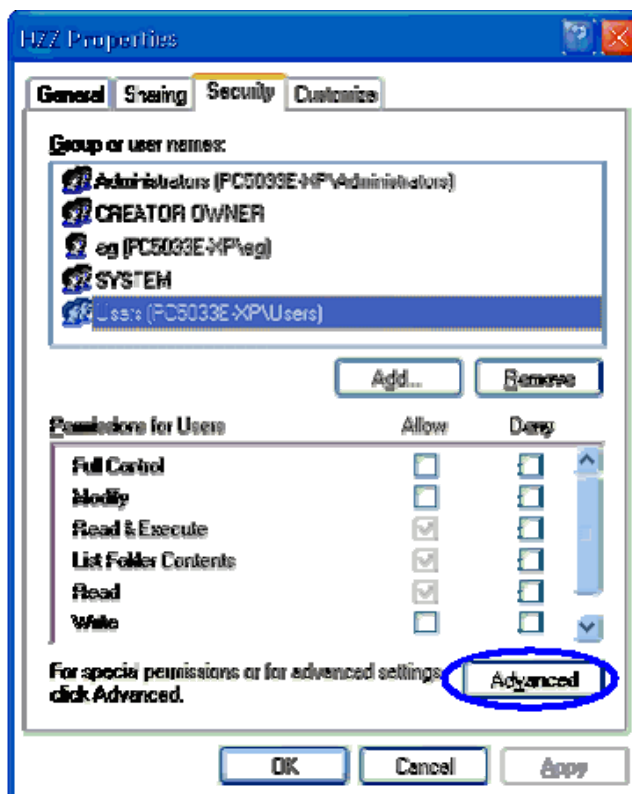
- From the Start menu, open [Control Panel], and run [Administrative Tools] -> [Local Security Settings].
- From [Security Options], right-click [Network Access: Sharing and security model for local accounts], and then select [Properties].



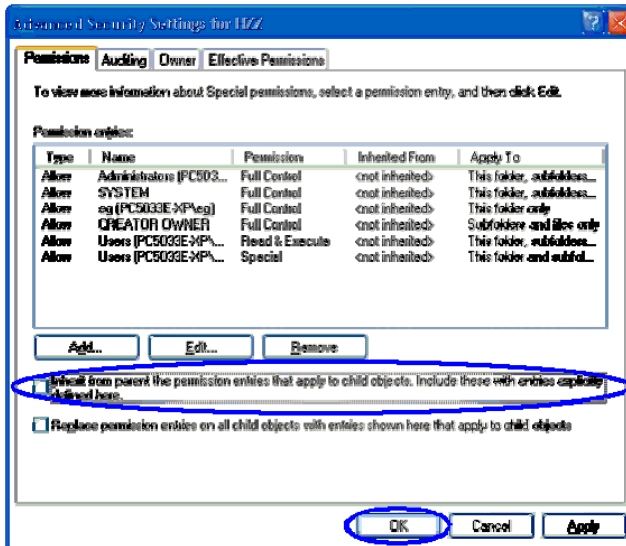
- Select [Classic: local users authenticate as themselves], and click the OK button.



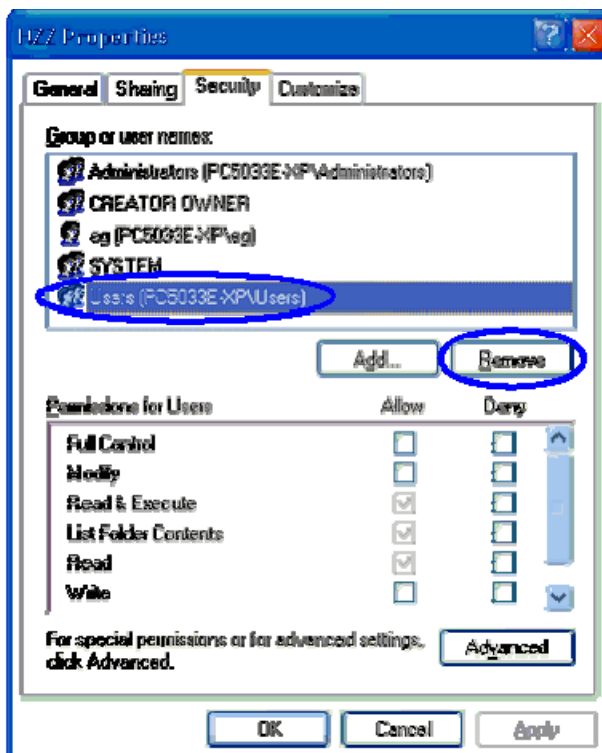
- From the [Start] menu, start [All Programs] -> [Accessories] -> [Explorer].
- Select the [Maintenance] folder, right-click it, and then select [Properties].
- In the [Security] tab, click the [Advanced] button.



- In the [Permissions] tab, clear the [Inherit from parent the permission entries that apply to child objects. Include these with entries explicitly defined here] check box.
- In the [Security] dialog, select [Copy].
- Click the OK button to close the screen.



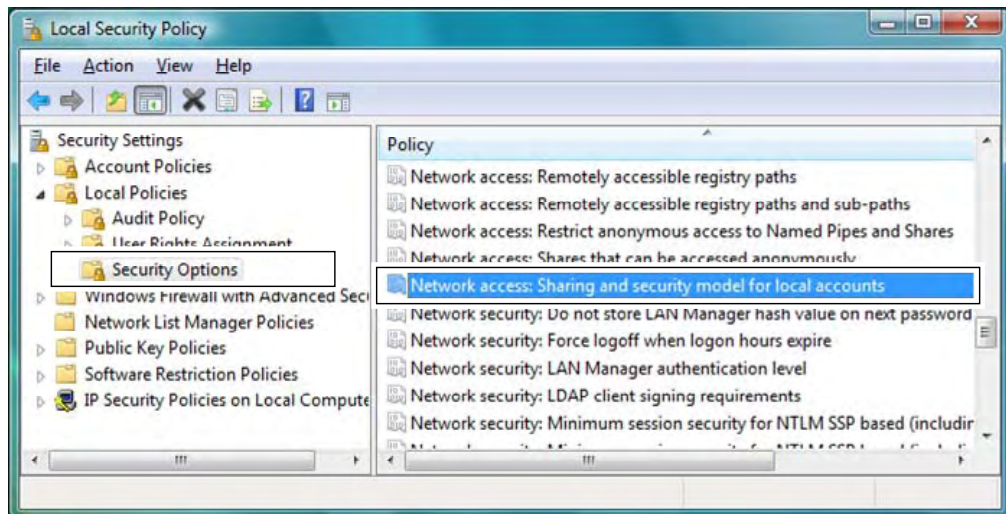
- In the [Security] tab, select [Users], and click the Remove button.
- Click the OK button to close the screen.



[For Windows Vista]

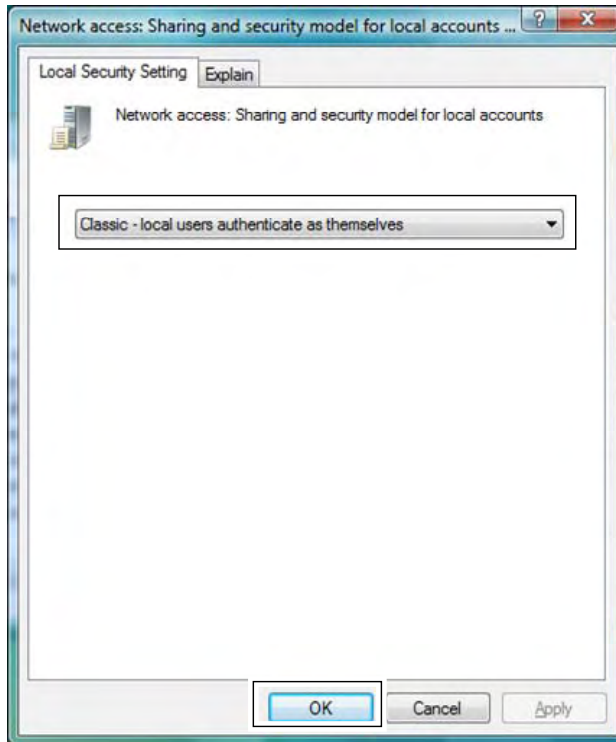
- From the Start menu, open [Control Panel], and run [System and Maintenance] -> [Administrative Tools] -> [Local Security Policy].
- From [Security Options], right-click [Network Access: Sharing and security model for local accounts], and then select [Properties].

2

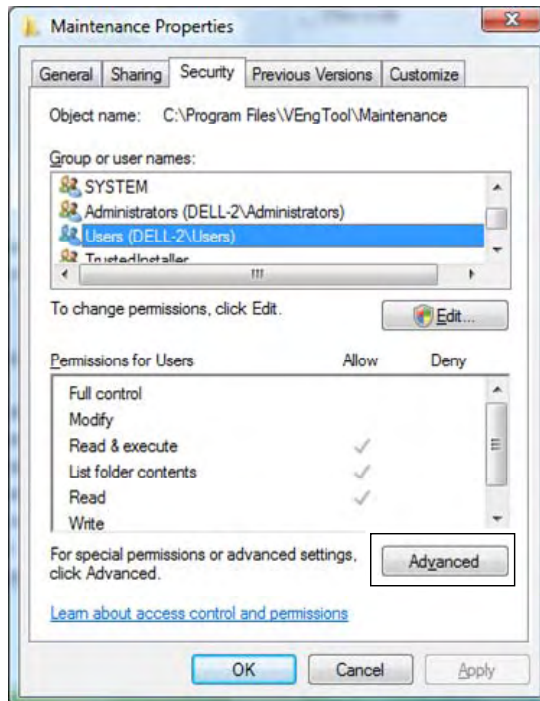


- Select [Classic: local users authenticate as themselves], and click the OK button.

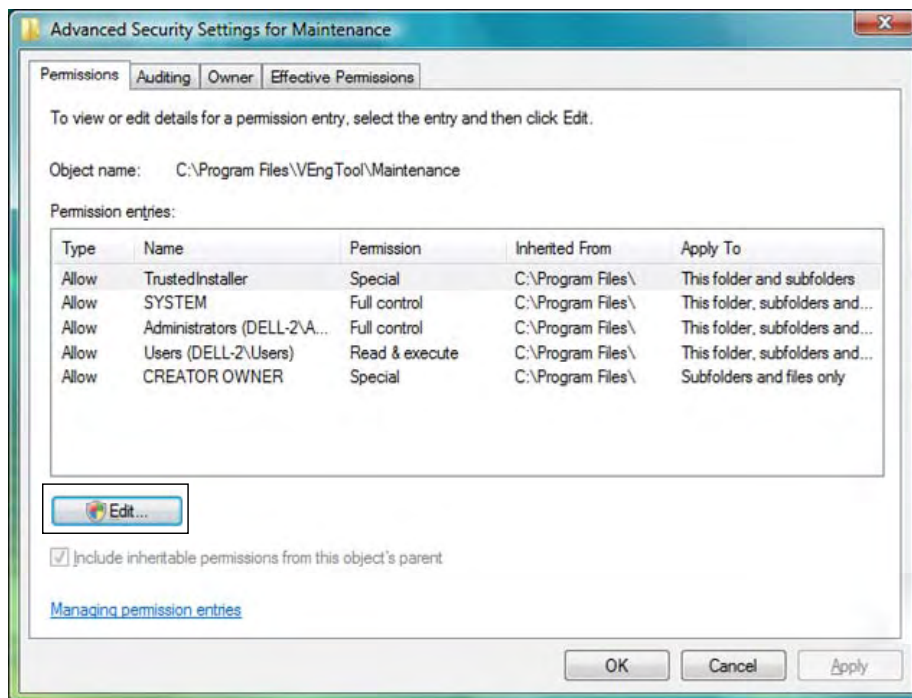
2



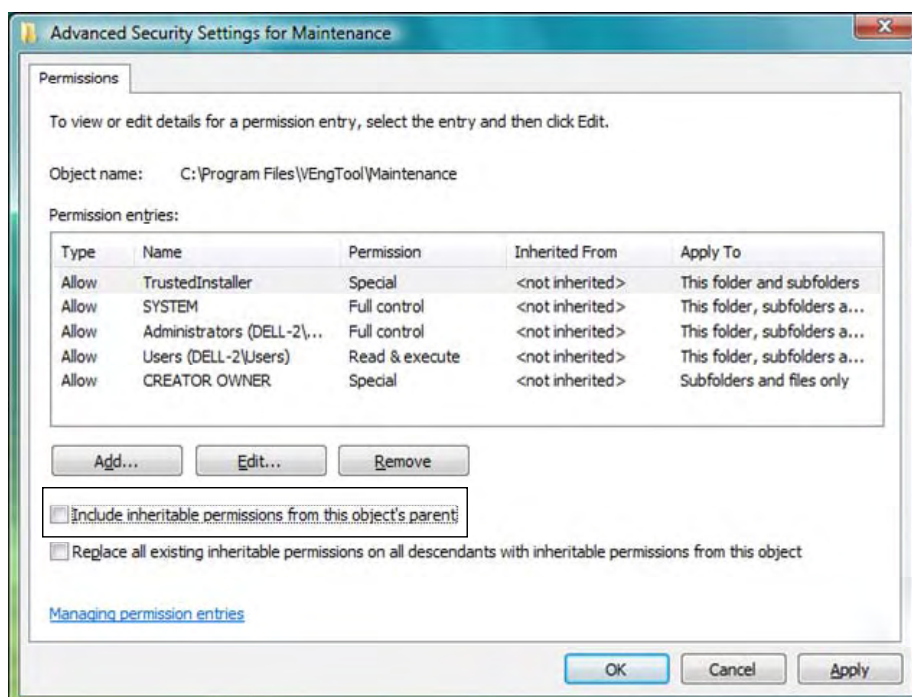
- From the [Start] menu, start [All Programs] -> [Accessories] -> [Explorer].
- Select the [Maintenance] folder, right-click it, and then select [Properties].
- In the [Security] tab, click the [Advanced] button.



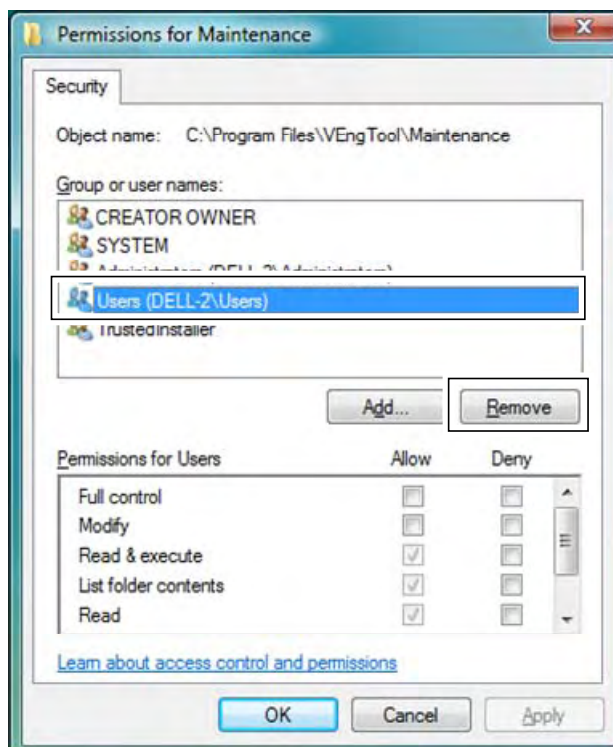
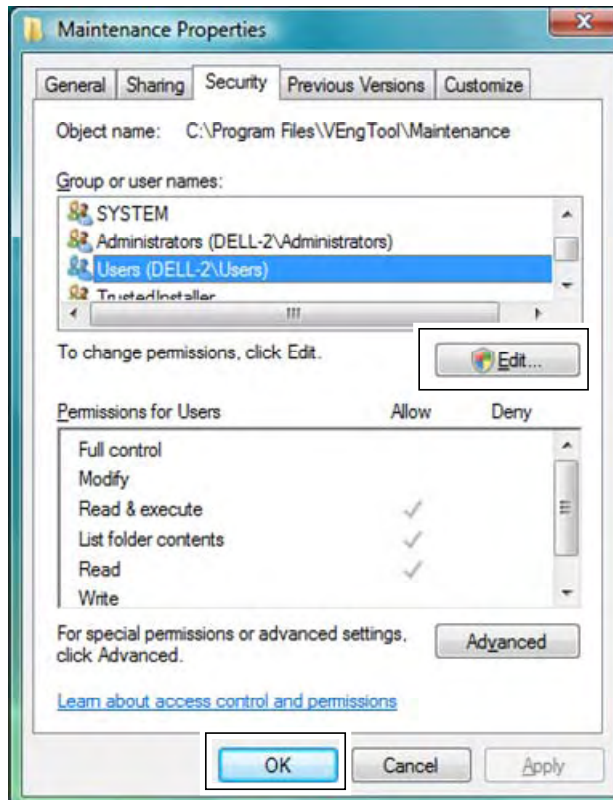
- In the [Permissions] tab, click [Edit].



- Clear the [Include inheritable permissions from this object's parent] check box.
- In the [Security] dialog, select [Copy].
- Click the OK button to close the screen.



- In the [Security] tab, click Edit button.
- Select [Users], and click the Remove button.
- Click the OK button to close the screen.



2.1.3 Step 3: Registering users of the V-Tool (S/A)

The tool administrator registers the users who can use the V-Tool.

Perform them with the administrator authority.

◇ Remark

- The following part describes the user registration method for V2.6 or later of the V-Tool. For the registration method for the V-Tool before V2.6, refer to the online manual installed along with the V-Tool.

■ Login security

To use the V-Tool, available users must be registered in advance. Users include the managers and members. One set includes one manager and the members. Multiple sets of users can be registered and managed. Only the manager can change user registration of one's members. Access levels (viewable/editable) of the hardware configuration can be assigned to the registered members.

◇ Remark

- The user names and passwords registered in the V-Tool before V2.6 are not inherited to the V2.6 or later of the V-Tool. To restrict users using V2.6 or later of the V-Tool, register the users again.

■ Access levels of the hardware configuration

The access levels of the hardware configuration include the following.

- Viewable : Cannot change the hardware configuration.
- Editable : Can change the hardware configuration.

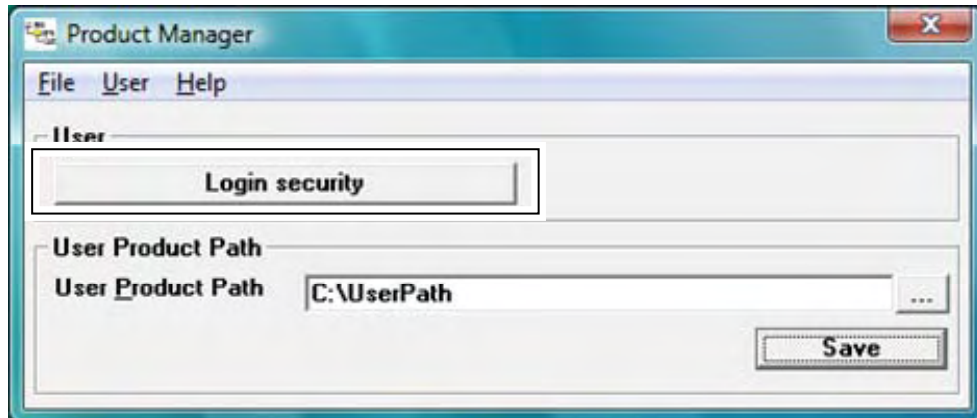
Action	System	Network	Network module	Station	Unit	Module
Add	■	■	■	■	■	■
Rename	■	—	—	■	■	■
Delete	■	■	■	■	■	■
Copy	■	—	—	—	—	—
Import	■	■	—	■	—	—
Export	■	■	—	■	—	—

◇ Remark

- Users with the access level of "Viewable" cannot perform the actions with the "■" symbol in the table.

■ Registering users

- From the Start menu, run [Programs] -> [V series Engineering Tool 4 (for management)] -> [Product Manager].



Click the Login security button. If no user is registered, the confirmation dialog is displayed. Click the Yes button. In this case, the Add Manager dialog is displayed first.



<Registering a new manager>

- From the menu, run [Manager] -> [Add].

- Enter the user name and password of the new manager, and click the OK button.

◇ Remark

- A user name can have 1 to 32 characters (32 half-sized characters, or 16 full-sized characters).
- A password can have 1 to 32 characters (full-sized characters cannot be used).
- Characters such as ?, “, /, ¥, <, >, *, |, :, ;, (space), (tab), or (return) cannot be used.

<Changing the manager>

- In the login security screen, enter the user name and password of the manager, and click the OK button.
- From the menu, run [Manager] -> [Change].
- Enter the user name and password of the new manager, and click the OK button.

<Registering a new member>

- From the menu, run [Member] -> [Add].

- Enter the user name and password.
- Set the access level (Viewable/Editable) of the hardware configuration.
- Click the OK button.

<Changing a member>

- Select a user name, and run [Member] -> [Change] from the menu.
- Enter the user name and password.
- Set the access level (viewable/editable) of the hardware configuration.
- Click the OK button.

<Deleting a member>

- Select a user name, and run [Member] -> [Delete] from the menu.

<Deleting security>

- Enter the user name and password of the manager, and click the OK button.
- From the menu, run [Manager] -> [Delete Security]. Only the registration for the manager and the members managed by the manager is deleted.

◇ Remark

-
- User name matching is not case-sensitive.
 - Password matching is case-sensitive.
 - Do not lose the user name and password.

■ Setting the user product path

The user product path is a folder to store user data created with the V-Tool. Create the folder using Explorer in advance.

Two or more user product paths can be created. The tool administrator can specify one of them.

- In the Product Manager screen, click "." next to the User Product Path text box, and specify a folder in the dialog.
- When the setting is complete, click the Save button to save the settings.

2.1.4 Step 4: Logging into the V-Tool (S/A)

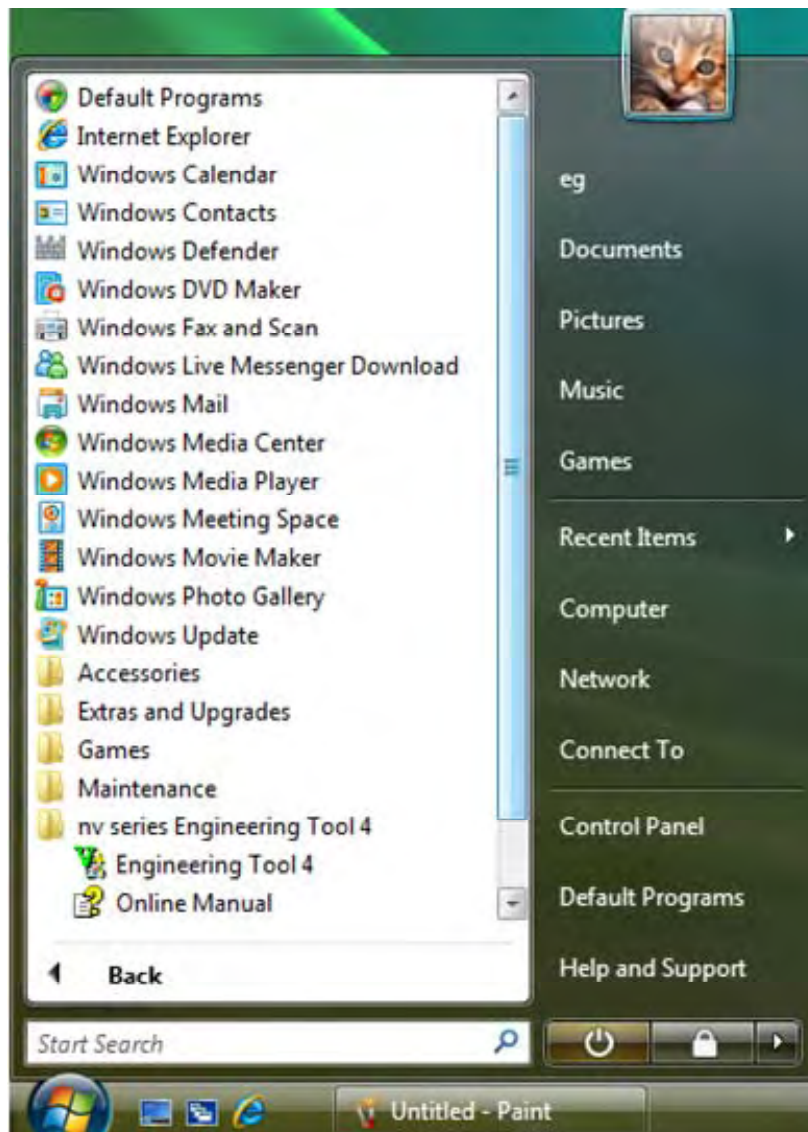
The V-Tool is made available only for the users registered in Step 3. This section describes how to log into the V-Tool.

There are two kinds of methods of starting V-Tool.

- From the Start menu, select [All Programs] -> [nv series Engineering Tool 4] -> [Engineering Tool 4].

◇ **Remark**

- The name and the screen image are different in the each kind of OS and version of V-Tool.



- Double click icon < Engineering Tool 4 on desktop.



2

◇ Remark

- The version display of < Engineering Tool 4> is different in each version of V-Tool.



- Enter the user name and password provided by the tool administrator, and click the OK button.

■ When the tool is started for the first time after setup, or if product registration has not been completed

Product registration of the V-Tool is complete when the product registration password is entered.

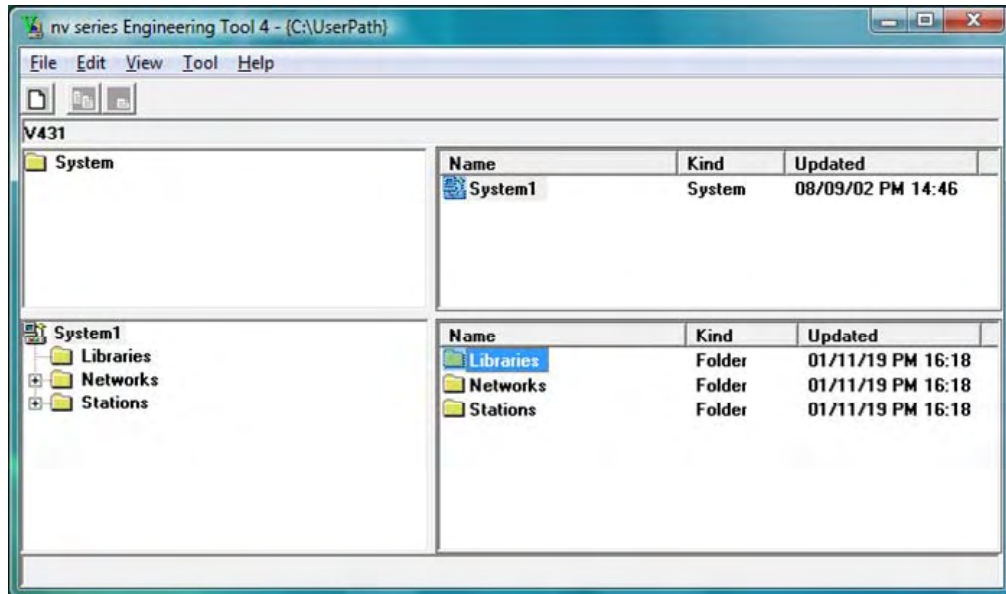
When the V-Tool starts up, the following password input screen is displayed. Provide the manufacturer with the protection ID displayed on the password input screen to obtain the corresponding password, and enter it in the Password field.



If the password is correct, the product registration completion message is displayed, and [Product Tree] is displayed.

◇ Remark

- Passwords are case-sensitive.
- The password input screen is displayed when the V-Tool starts up until product registration is completed.
- If the Cancel button is clicked without any password entered, the V-Tool can still be used within 14 days after you start using it.
- If no password is entered, the V-Tool becomes unavailable after 14 days.
- If the date or time is changed, the V-Tool may become unavailable.
- If the related registries are changed, the V-Tool may become unavailable.



2

■ Starting the V-Tool after product registration has been completed

In the Login screen, enter the user name and password and click the OK button. [Product Tree] is displayed.

2.1.5 Step 5: Starting up and exiting from the V-Tool (S/A)

This section describes how to startup and exit from the functions and applications of the product tree, as well as how to exit from the V-Tool.

■ Setting communication parameters

The V-Tool and V series controller can be connected via RS-232C or Ethernet for download and online monitoring. Set the V-Tool communication parameters in [Tool] -> [Com.Para.Settings] from the menu.

■ Version information

Select [Help] -> [Version Information] from the menu to check the version of the V-Tool. After setup or version upgrade, make sure that the desired version is displayed.

■ Starting up and exiting from the applications

- To start up an application, click the station or controller in [Product Tree], select [File] -> [Open] from the menu, and select the application from the displayed menu.
- To exit from the application, select [File] -> [Exit from {Application Name}] from the menu, or click the Close button.
- To exit from the V-Tool entirely (i.e. logging off), select [File] -> [Exit] from the menu of [Product Tree].

2.1.6 Step 6: Starting up from the HMI (S/A)

Follow the instruction below only when starting up the Engineering Tool from the HMI.

The following action must be performed by a person with the "system administrator" authority.

2

■ Setting auto logon of the operating system

Log into Windows as an Administrator.

Set the explanation on the tip of here according to LAN environment of the computer (Workgroup and Domain).

[In case of Workgroup]

The User accounts screen is displayed.

<For Windows XP>

- From the menu, select [Start] -> [Run]. From the [Run] screen, enter "control userpasswords2" and click the OK button.

<For Windows Vista>

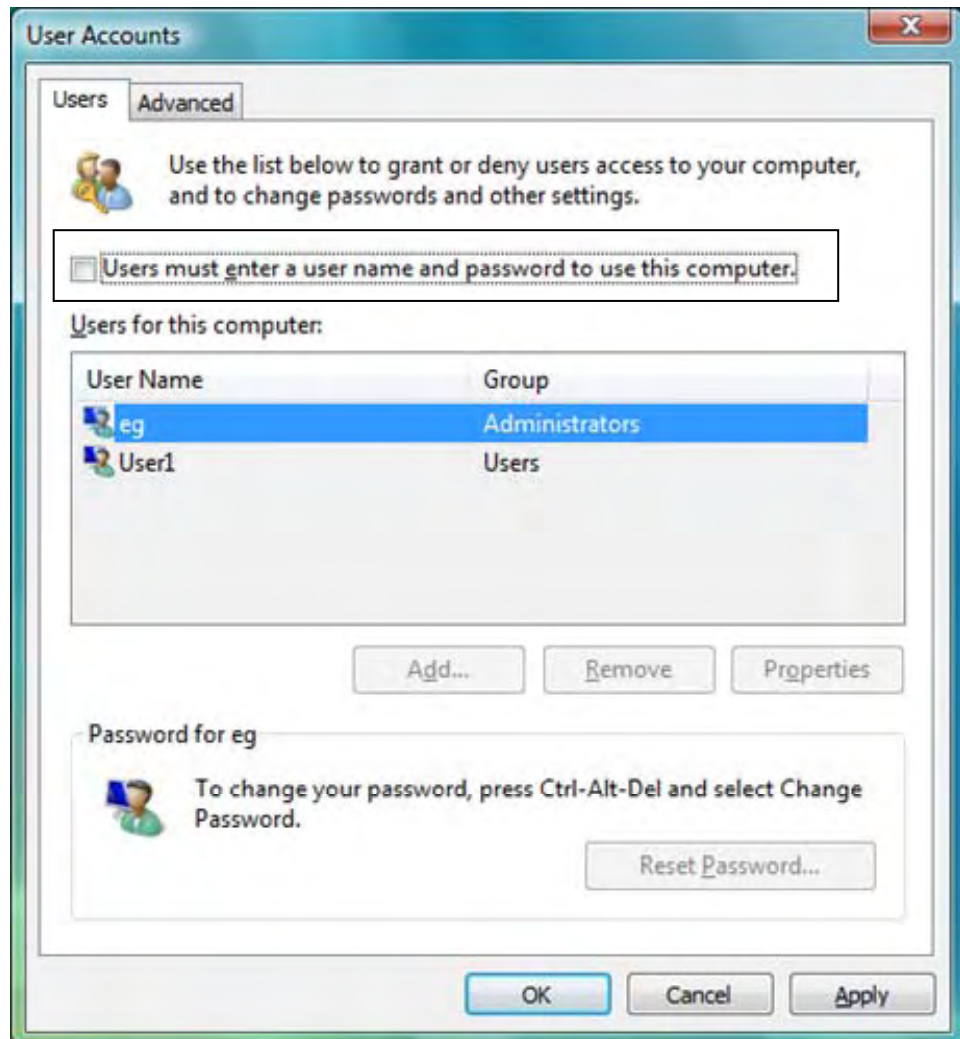
- The "control userpasswords2" is entering to the [Start Search] box of the start menu.



- The check box of [Users must enter a user name and password to use this computer] is turned off, and click OK button.

◇ Remark

- Displayed content and action are the same though the screen image is different in each OS.



[In case of Domain]

Because the computer exists on the domain, the user account is being managed by the network administrator. Confirm the method of automatic logon to the network administrator.

■ Setting auto startup of the Engineering Tool

To start up the Engineering Tool program after logging onto the operating system, perform the following setting.

- From the task bar, right-click [Start] from the menu, and select [Open-All Users].
- The Start menu window opens. Double-click [Programs], and then double-click [nv series Engineering Tool 4].
- Select the "Engineering Tool 4" shortcut icon, and select [Edit] -> [Copy] from the menu.
- From the task bar, right-click [Start] from the menu, and select [Open].
- The Start menu window opens. Double-click [Programs], and then double-click [Startup].
- Select [Edit] -> [Paste] from the menu to paste the "Engineering Tool 4" shortcut icon.

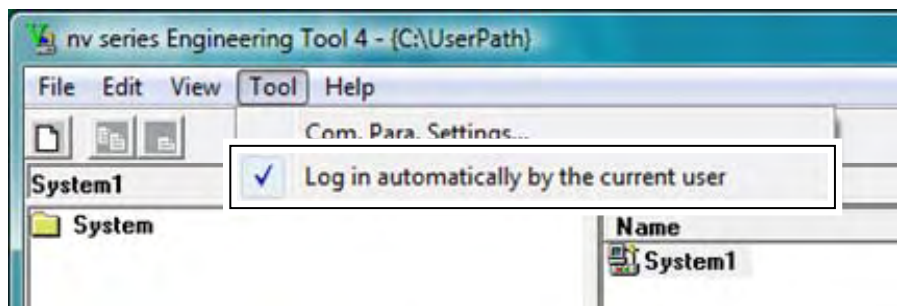
◇ Remark

- The display of the series name and the version of 'nv series Engineering Tool 4' and 'Engineering Tool 4' are different in each version of V-Tool.

■ Setting auto logon of the Engineering Tool

To skip the logon screen of the Engineering Tool, perform the following setting.

- Log into the Engineering Tool.
- From the product tree menu, select [Tool] -> [Log in automatically by the current user] to select it.



2.2 Client-server Version

This section describes how to set up the V-Tool to the PC for the first time.

First, read "Conditions of the personal computer" thoroughly and prepare the following.

- One server PC and zero or more client PC
- Operating system CD
- V-Tool CD

The V-Tool (C/S version) will be installed to the server PC and client PC.

Install it to the server PC and client PC in the following steps and start the V-Tool.

- 2.2.1 Step 1: Setting up the Windows platform (C/S)
- 2.2.2 Step 2: Setting up the V-Tool (C/S)
- 2.2.3 Step 3: Running the V-Tool with the user authority (C/S)
- 2.2.4 Step 4: Registering users of the V-Tool (C/S)
- 2.2.5 Step 5: Logging into the V-Tool (C/S)
- 2.2.6 Step 6: Starting up and exiting from the V-Tool (C/S)
- 2.2.7 Step 7: Starting up from the HMI (C/S)

◆ Note

If any of the following versions of the V-Tool is already installed, uninstall it with "Add or Remove Applications" in advance.

- nv series/V series Engineering Tool Ver.4
- V series Engineering Tool Ver.3, Ver.2, or Ver.1

2.2.1 Step 1: Setting up the Windows platform (C/S)

If Windows OS has not been set up, perform setup by following the setup manual of the OS. In the explanation below, it is assumed that standard setup of Windows OS has been completed.

The minimum setting of the Windows platform required for running the V-Tool is as follows.

Perform them with the administrator authority.

- The User Account Control (UAC) [For Windows Vista]
- Turn the User Account Control (UAC) off [For Windows Vista]
- Setting up the network
- Setting the IP address
- Setting the Windows firewall [For Windows XP SP2 or Windows Vista]

- Setting the DCOM (Edit Default) [For Windows Vista]
- Setting the DCOM (Edit Limits) [For Windows XP SP2 or Windows Vista]

Set here ahead according to OS used.

[For WindowsXP]

To communicate with the controller via Ethernet, set up the network and IP address.

If only the RS-232C cable is used, proceed to "2.2.2 Step 2: Setting up the V-Tool (C/S)"

■ Setting up the network

Perform this setting both on the client PC and server PC.

The "network" here indicates 10BASE-T, 10BASE2, 10BASE5, and 100BASE-T Ethernet that connects the V-Tool and the controller of the nv series and V series. A network adaptor is a peripheral device for connection to Ethernet. Depending on the manufacturer, it is called a "LAN card," "network card," or "Ethernet PC card."

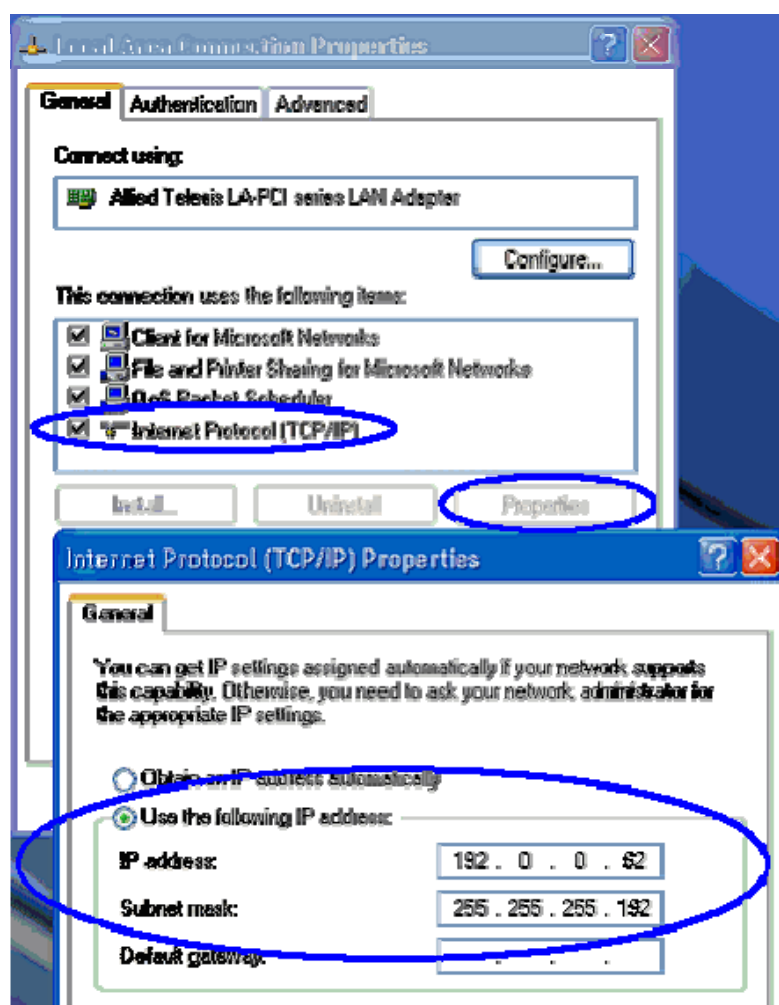
If the PC has no network adaptor installed, install a network adaptor with the 10BASE-T, 10BASE2, 10BASE5, or 100BASE-T interface. For the installation method, refer to the manual of the PC and network adaptor.

To make the network adaptor recognized by the PC, dedicated driver software must be installed. For installation of the driver, refer to the manual of the network adaptor.

■ Setting the IP address

Perform this setting both on the client PC and server PC.

- An IP address is the address of the network adaptor (node) on Ethernet. In this section, set the IP address of the V-Tool itself.
- From the [Start] menu, start [Control Panel].
- In [Network Connection], right-click [LAN] used for connection to the nv series / V series, and select [Properties].
- Select [Internet Protocol (TCP/IP)] used for connection to the nv series / V series, and click the [Properties] button.
- Specify [IP address] and [Subnet mask] according to the LAN configuration of the nv series / V series system.



◇ Remark

- For the assignment of IP addresses, refer to "Connecting to the controller" in the Basic manual.

■ Setting the Windows firewall

Set this if OS is the Windows XP SP2.

Perform this setting both on the client PC and server PC.

This section describes how to set up the Windows firewall.

The Windows firewall has been set to [On] by default.

To run the V-Tool, it must be set to [Off].

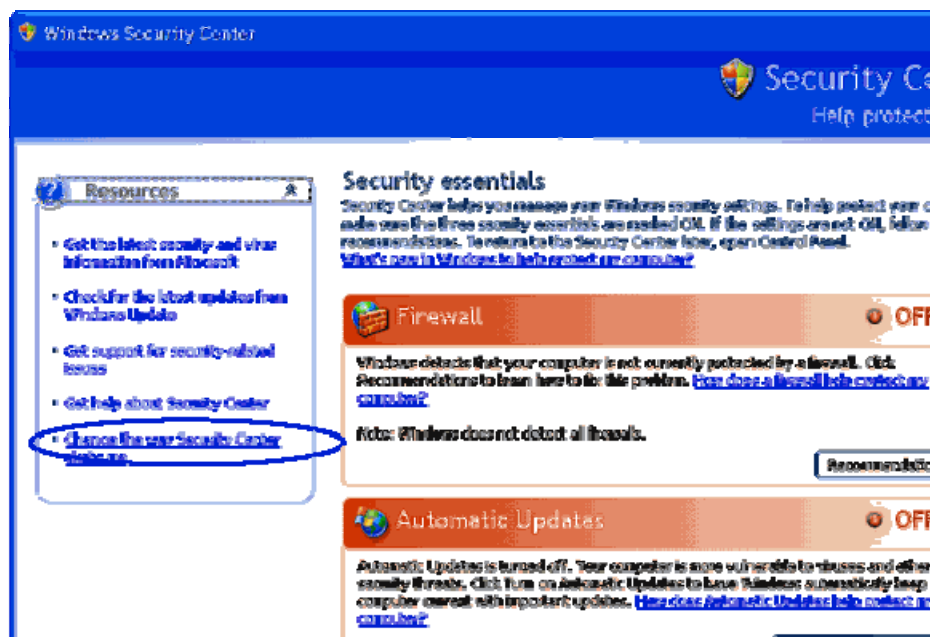
- From the Start menu, open [Control Panel], and run [Windows Firewall].
- Select [Off (not recommended)], and click the OK button.



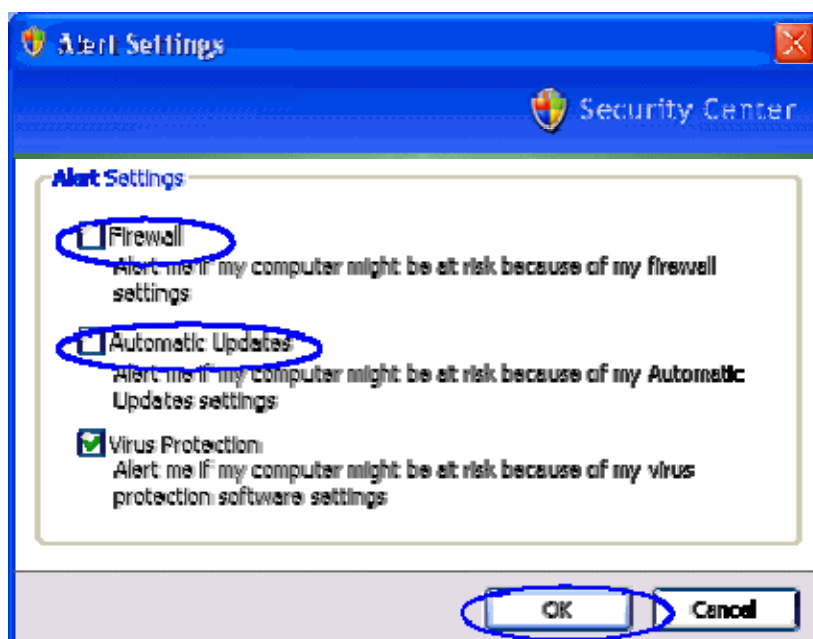
If the Windows firewall is set to [Off], a warning will be generated periodically.

To stop the warning, do the following.

- From the Start menu, open [Control Panel], and run [Security Center].
- Click "Change the way Security Center alerts me" in [Resources] in the left side of the screen.



- In [Alert Settings], clear the [Firewall] and [Automatic Updates] check boxes, and click the OK button.



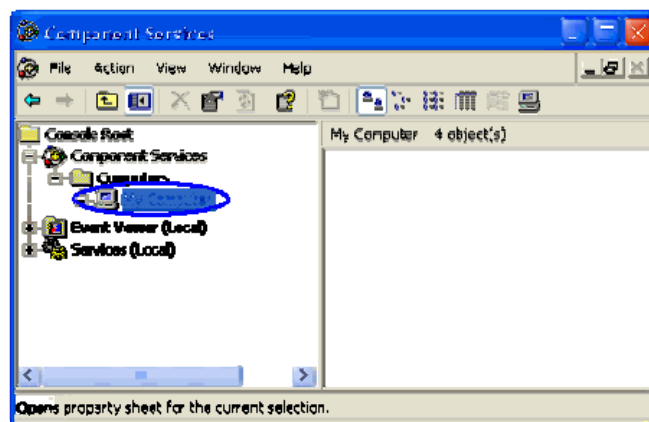
■ Setting the DCOM (Edit Limits)

Set this if OS is the Windows XP SP2.

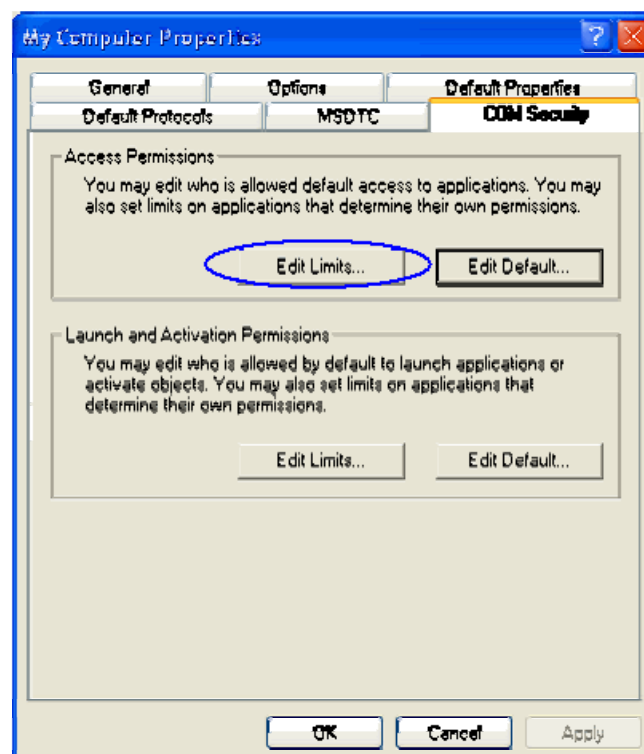
Perform this setting both on the client PC and server PC.

In the DCOM security setting, set [Access Permissions] and [Launch and Activation Permissions].

- From the Start menu, open [Control Panel], and run [Administrative Tools] -> [Component Services].
- Right-click [My Computer], and select [Properties].



- In [My Computer Properties], select the [COM Security] tab.



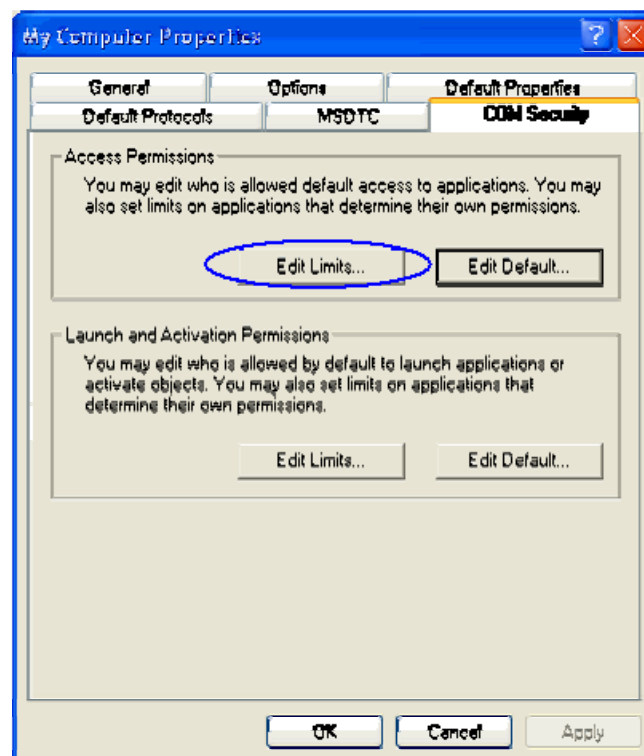
Set here ahead according to the environment of the computer that uses it.

If it can select the [Edit Limits] button in [Access Permissions] and [Launch and Activation Permissions], proceed to [Setting DCOM by using the Component services].

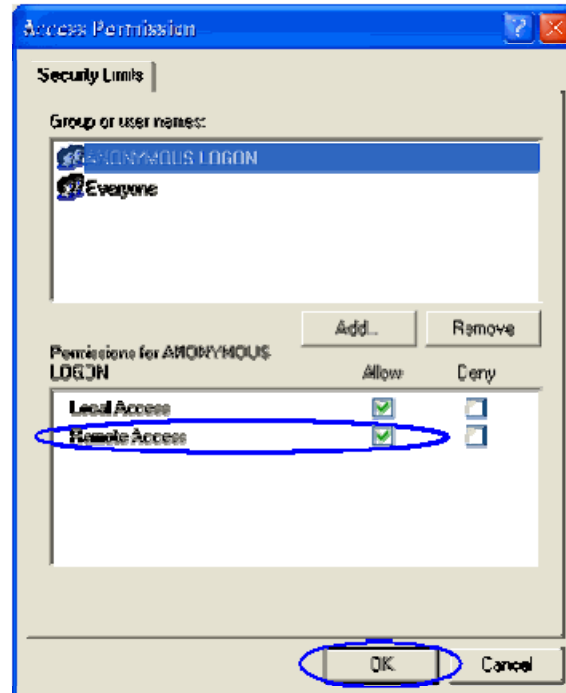
If it can not select the [Edit Limits] button in [Access Permissions] and [Launch and Activation Permissions], proceed to [Setting DCOM by using the Local Security Settings]. Or close to the Component services.

[Setting DCOM by using the Component services]

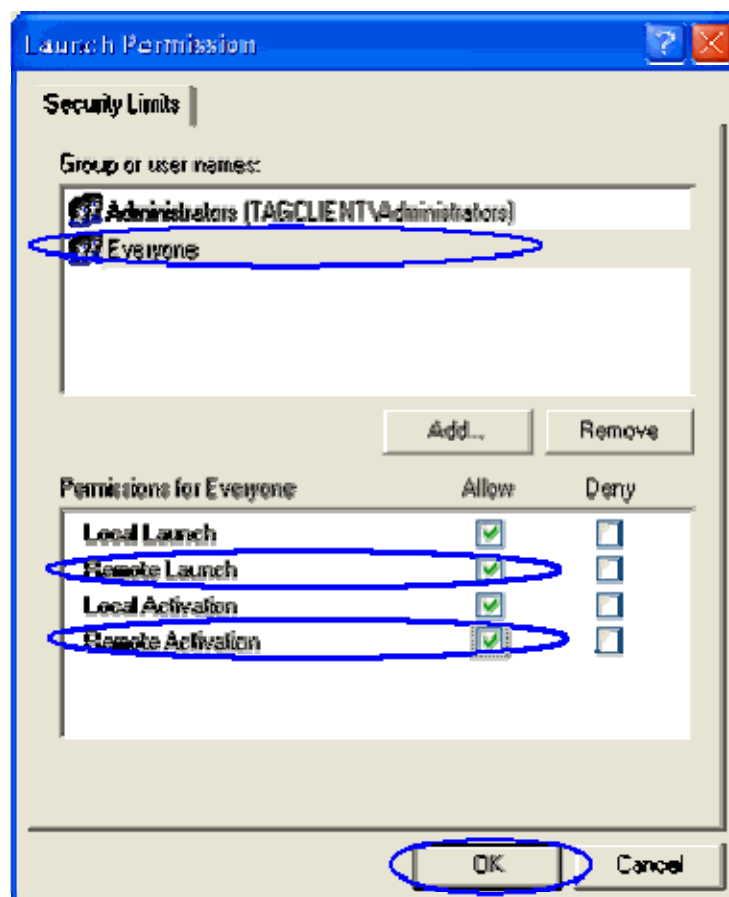
- In the [COM Security] tab in [My Computer Properties], click the [Edit Limits] button in [Access Permissions] to open the [Access Permission] screen.



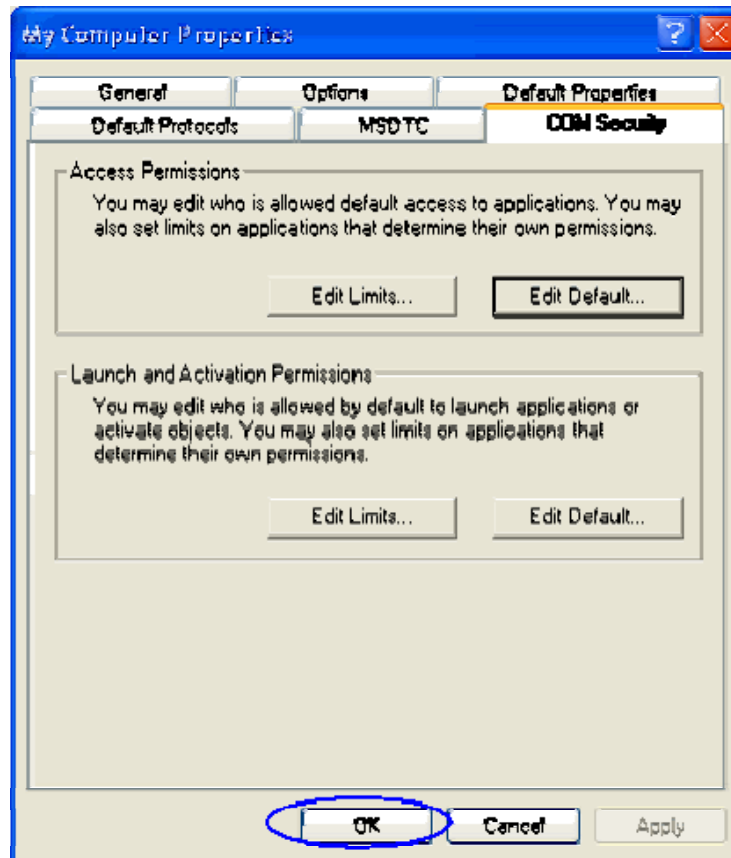
- For the "ANONYMOUS LOGON" user, click [Allow] of [Remote Access], and click the OK button.



- In the [COM Security] tab in [My Computer Properties], click the [Edit Limits] button in [Launch and Activation Permissions] to open the [Launch Permission] screen.
- For the "Everyone" user, click [Allow] of [Remote Launch] and [Remote Activation], and click the OK button.



- In [My Computer Properties], click the OK button to close the screen.



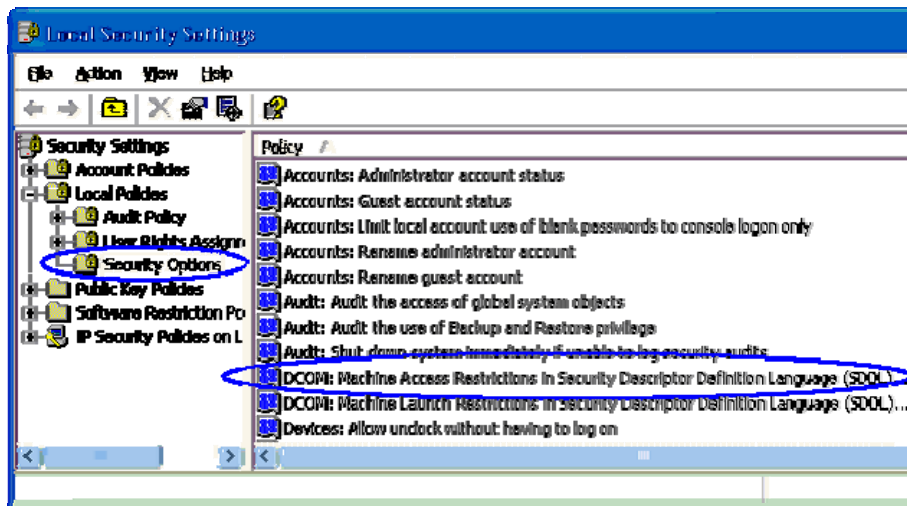
- Restart the computer.
- Proceed to "2.2.2 Step 2: Setting up the V-Tool (C/S)".

[Setting DCOM by using the Local Security Settings]

- If DCOM was set by [Setting DCOM by using the Component services], should not this setting.

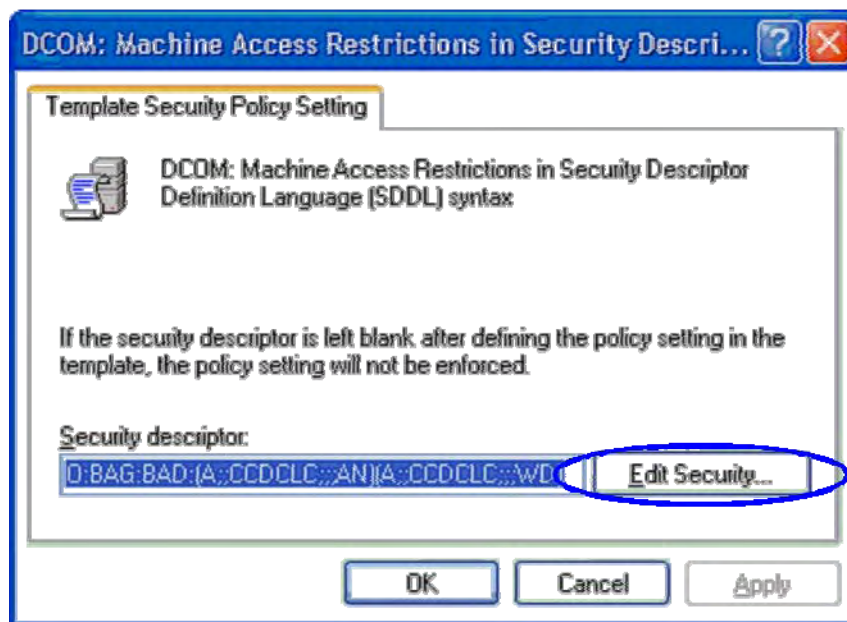
First set "Access Permission".

- From the Start menu, open [Control Panel], and run [Administrative Tools] -> [Local Security Settings].
- From [Security Options] in [Local Policies], right-click [DCOM: Machine Access Restrictions in Security Descriptor Definition Language (SDDL)], and select [Properties].

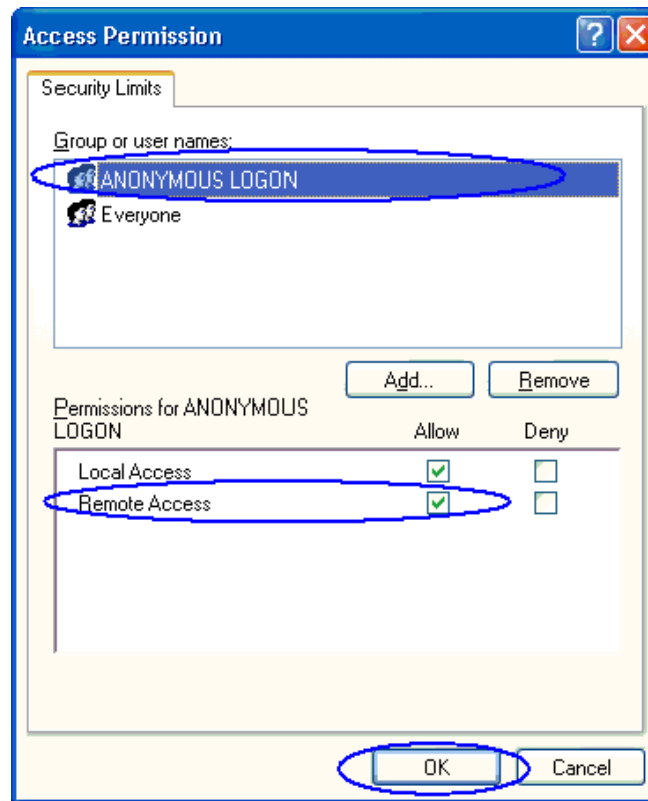


2

- Click the [Edit Security] button to open the [Access Permission] screen.



- For the "ANONYMOUS LOGON" user, click [Allow] of [Remote Access], and click the OK button.

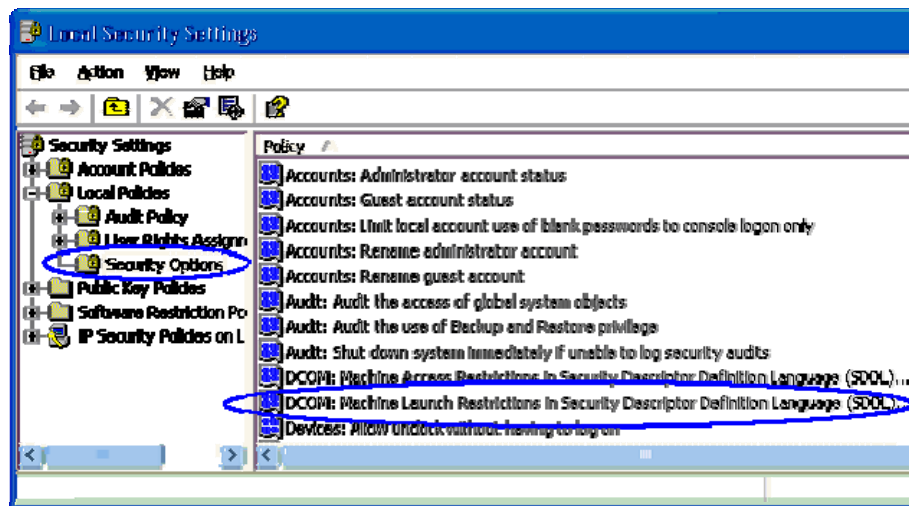


- In the [DCOM: Machine Access Restrictions in Security Descriptor Definition Language (SDDL)] screen, click the OK button to close the screen.

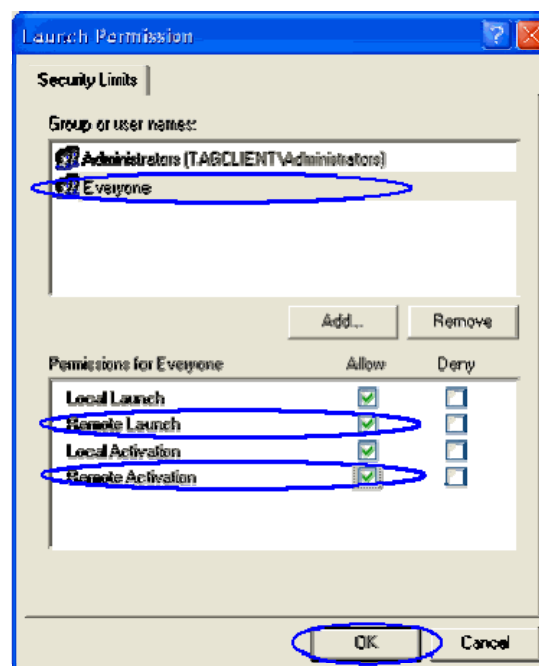


Next, set [Launch Permission].

- From [Security Options] in [Local Policy], right-click [DCOM: Machine Launch Restriction in Security Descriptor Definition Language (SDDL)], and select [Properties].



- Click the [Edit Security] button to open the [Launch Permission] screen.
- For the "Everyone" user, click [Allow] of [Remote Launch] and [Remote Activation], and click the OK button.



- In the [DCOM: Machine Launch Restriction in Security Descriptor Definition Language (SDDL)] screen, click the OK button to close the screen.
- Close the [Local Security Settings] screen.
- Restart the computer.

[For Windows Vista]

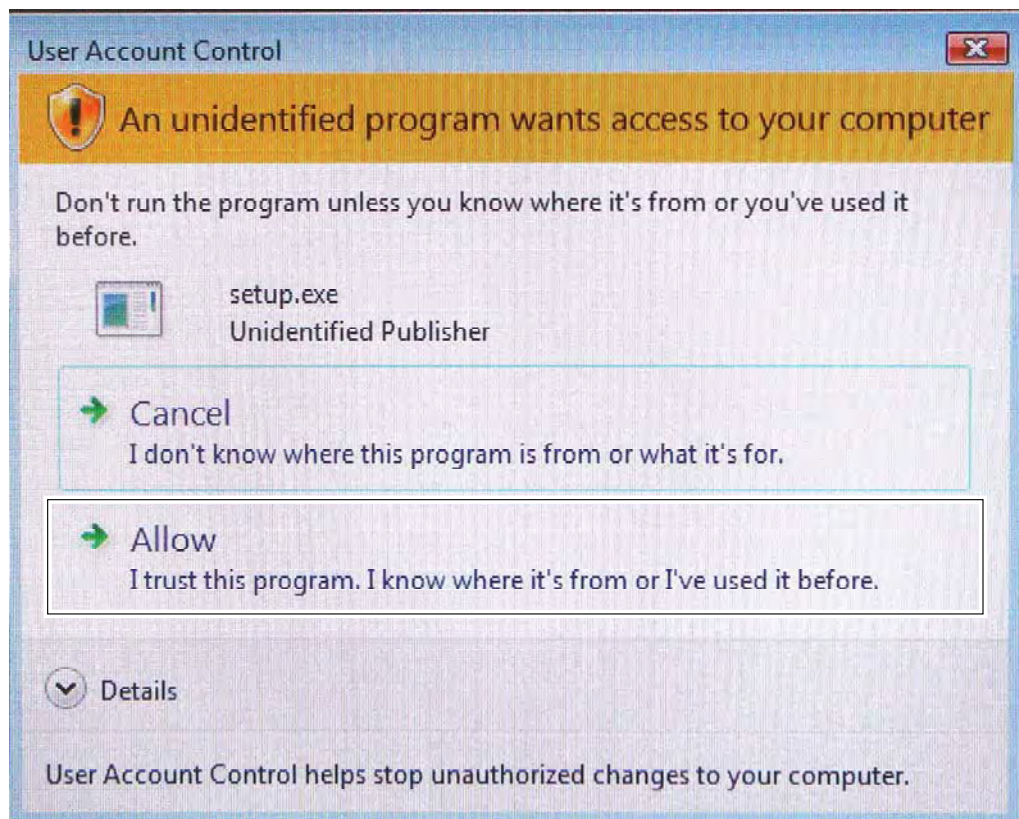
■ The User Account Control (UAC)

Installing or starting V-Tool requires confirmation to users on Windows Vista.

When the following windows are shown, please click button [Allow] or [Continue].

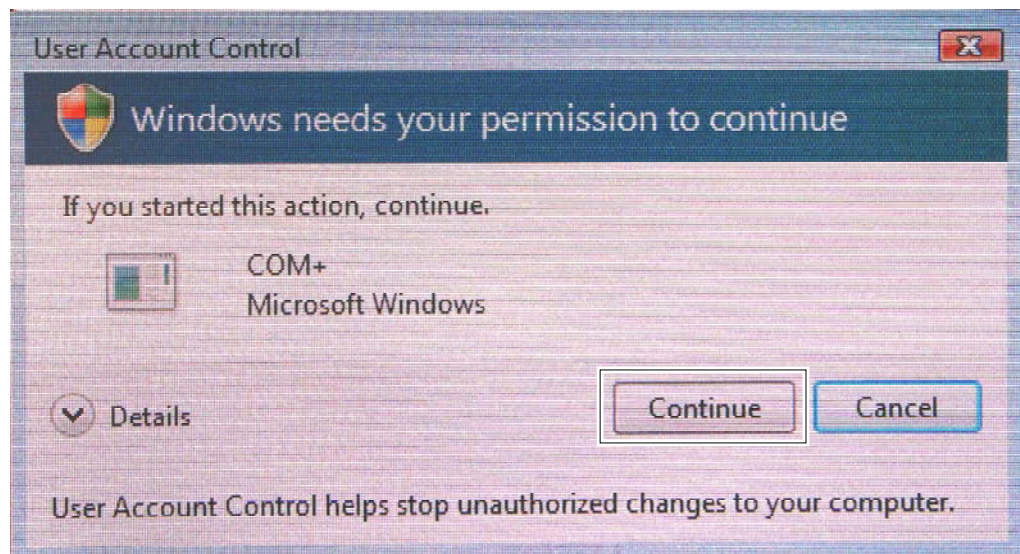
◇ Remark

- This document describes instruction without these windows.



◇ Remark

- This is a sample window, and program name "setup.exe" is example. It changes by using software.



◇ Remark

- This is a sample window, and window's name "COM+" is example. It changes by using window.

■ Turn the User Account Control (UAC) off

Not to display confirmation window, please change setting.

◇ Remark

- Turn off setting could enable compromise. Be sure that it is your own responsibility.

Turn off setting is as follows:

- Open [Control Panel] from the menu [Start], Click <User Accounts and Family Safety>, and click <User Accounts> again on displaying window.

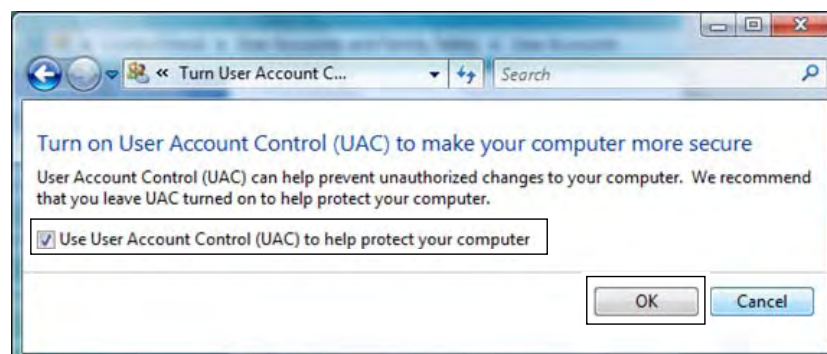




- Click <Turn User Account Control on or off>.
- Click button [Continue(C)] on displaying dialog.



- Check-off <Use User Account Control (UAC) to help protect your computer>, and click button [OK].



To communicate with the controller via Ethernet, set up the network and IP address.

If only the RS-232C cable is used, proceed to "2.2.2 Step 2: Setting up the V-Tool (C/S)"

2

■ Setting up the network

Perform this setting both on the client PC and server PC.

The "network" here indicates 10BASE-T, 10BASE2, 10BASE5, and 100BASE-T Ethernet that connects the V-Tool and the controller of the nv series and V series. A network adaptor is a peripheral device for connection to Ethernet. Depending on the manufacturer, it is called a "LAN card," "network card," or "Ethernet PC card."

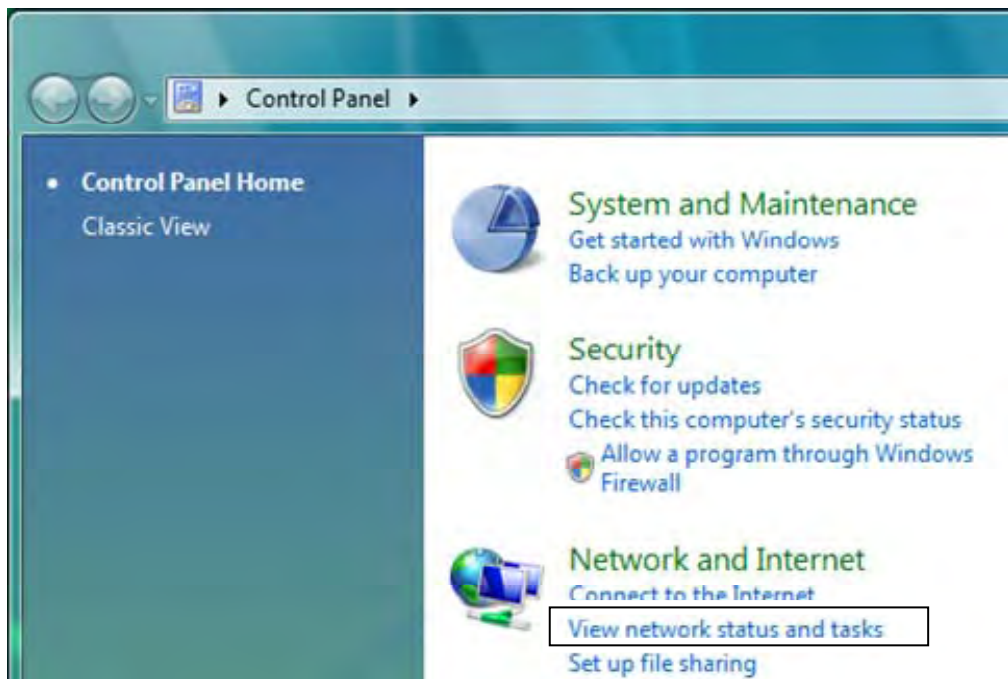
If the PC has no network adaptor installed, install a network adaptor with the 10BASE-T, 10BASE2, 10BASE5, or 100BASE-T interface. For the installation method, refer to the manual of the PC and network adaptor.

To make the network adaptor recognized by the PC, dedicated driver software must be installed. For installation of the driver, refer to the manual of the network adaptor.

■ Setting the IP address

Perform this setting both on the client PC and server PC.

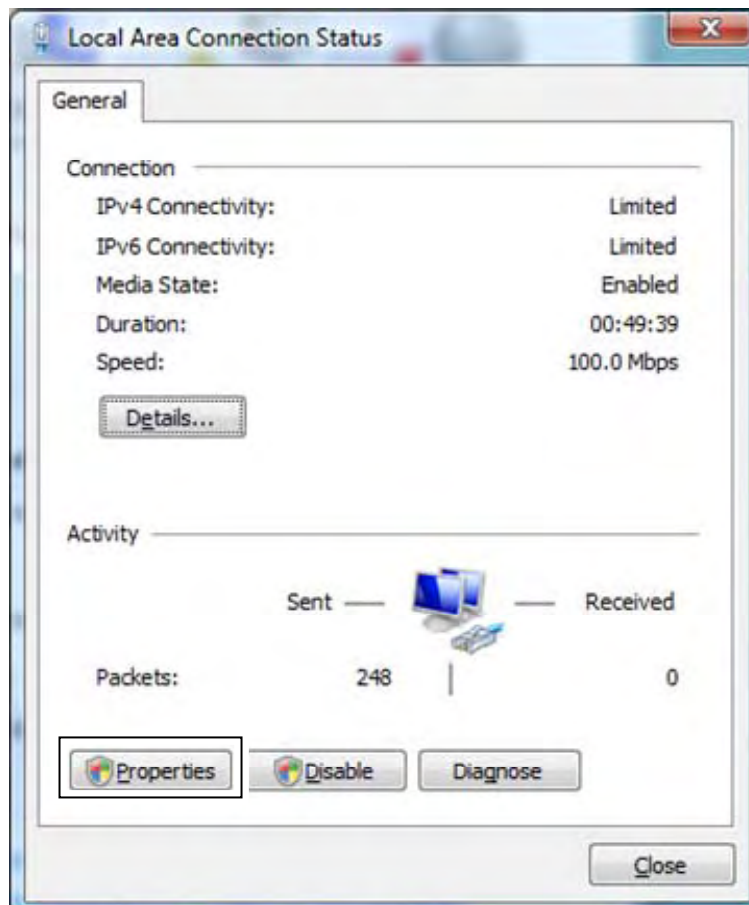
- An IP address is the address of the network adaptor (node) on Ethernet. In this section, set the IP address of the V-Tool itself.
- From the [Start] menu, start [Control Panel].
- Click [View network status and tasks]



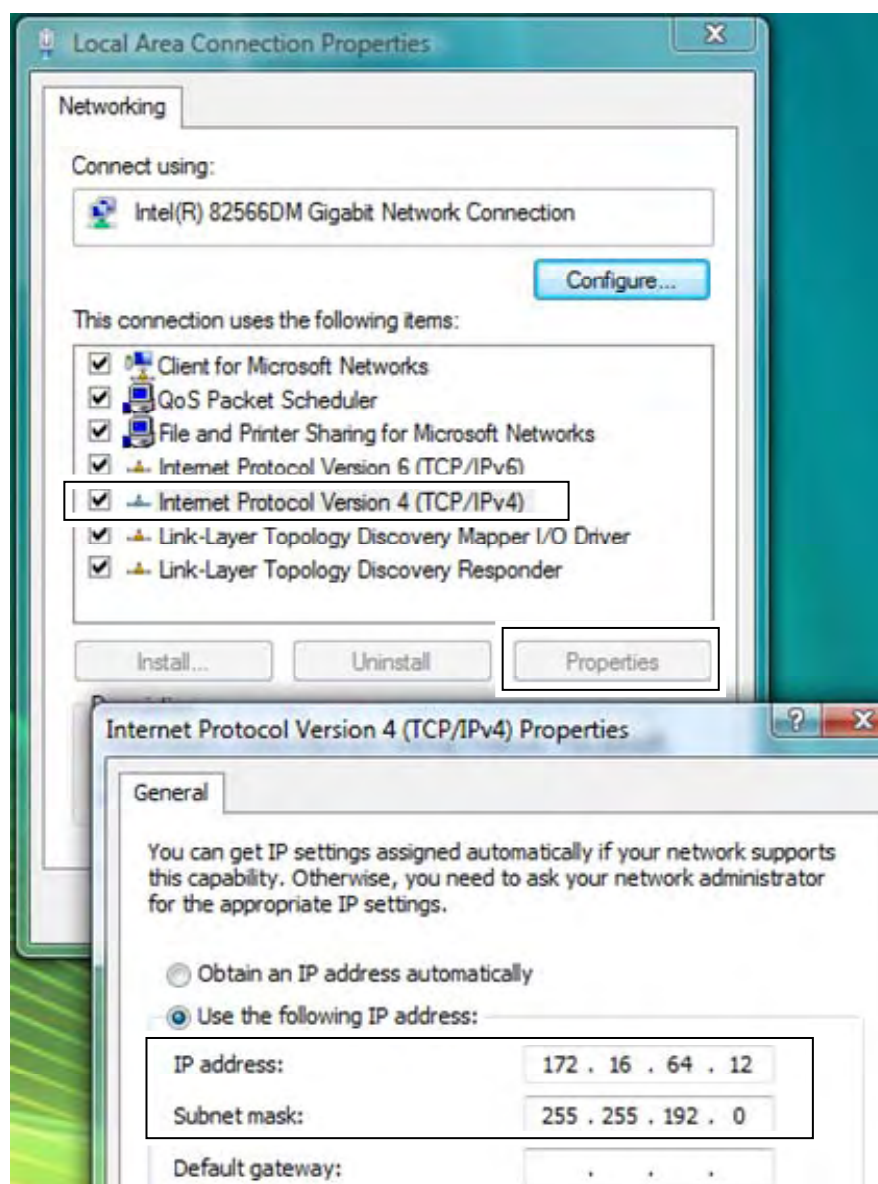
- Click [View status].



- Click [Properties].



- Select [Internet Protocol (TCP/IPv4)] used for connection to the nv series / V series, and click the [Properties] button.
- Specify [IP address] and [Subnet mask] according to the LAN configuration of the nv series / V series system.



◇ Remark

- For the assignment of IP addresses, refer to "Connecting to the controller" in the Basic manual.

■ Setting the Windows firewall

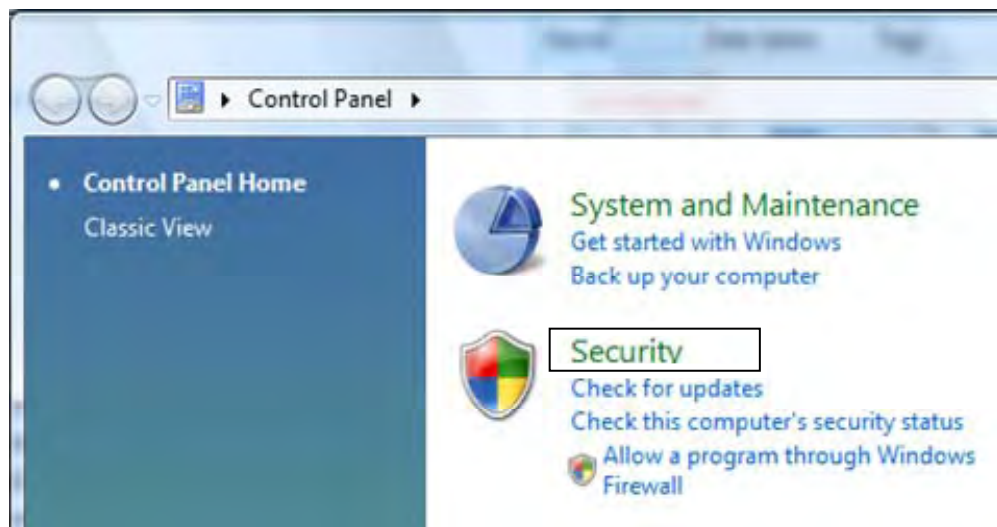
Perform this setting both on the client PC and server PC.

This section describes how to set up the Windows firewall.

The Windows firewall has been set to [On] by default.

To run the V-Tool, it must be set to [Off].

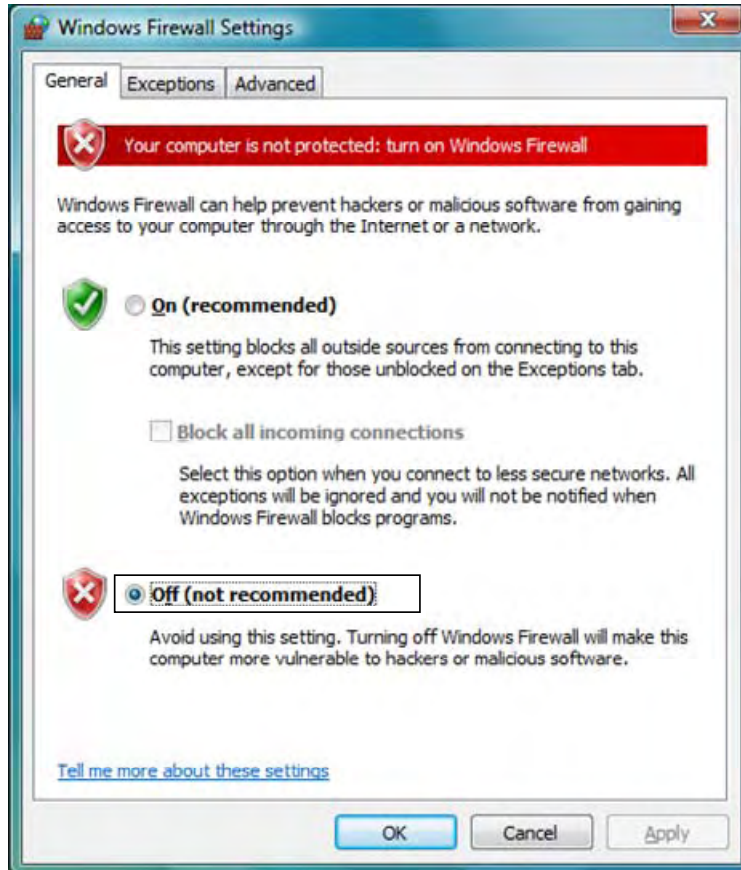
- From the Start menu, open [Control Panel], click [Security].



- Click [Turn Windows Firewall on or off].



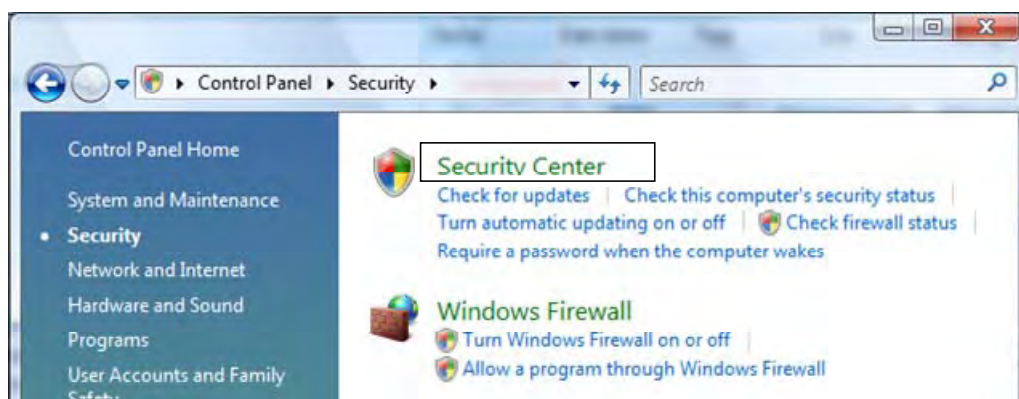
- Select [Off (not recommended)], click [OK] button.



If the Windows firewall is set to [Off], a warning will be generated periodically.

To stop the warning, do the following.

- From the Start menu, open [Control Panel], click [Security], and run [Security Center].



- Click "Change the way Security Center alerts me" in the left side of the screen.



2

- In [Windows Security Center], click [Don't notify me and don't display the icon (not recommended)].



■ Setting the DCOM (Edit Default)

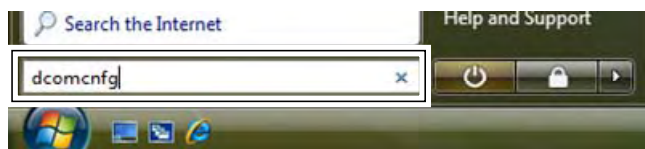
Perform this setting if the environment of PC that installs the nV-Tool Server Type is the following.

- Login user name of PC: Case to use user-names other than “Administrator”.

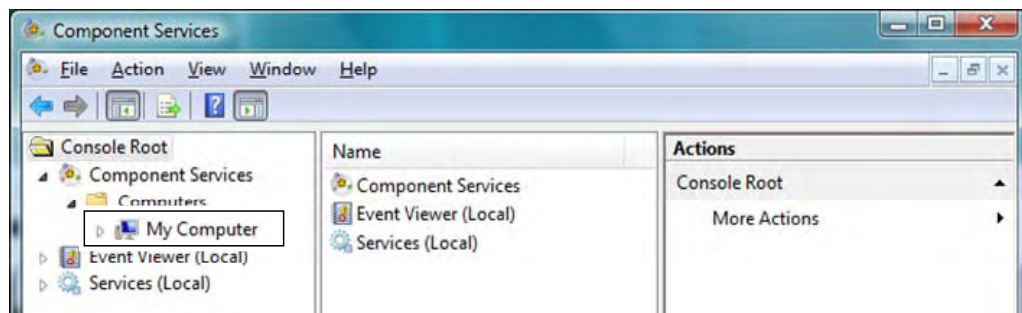
If the user name of log in is “Administrator”, the following settings are unnecessary.

In the DCOM security setting, set “Default value” of [Access Permissions] and [Launch and Activation Permissions].

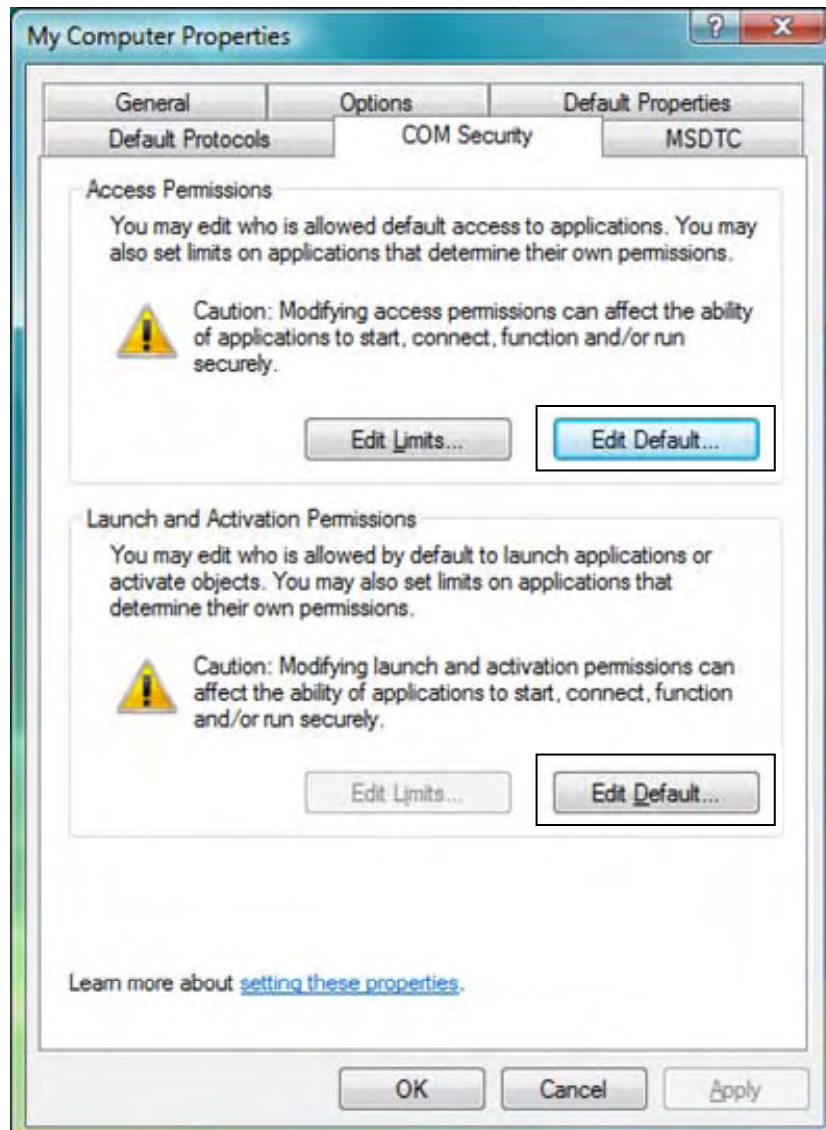
- From the Start menu, enter the “dcomcnfg” in [Start Search] box.



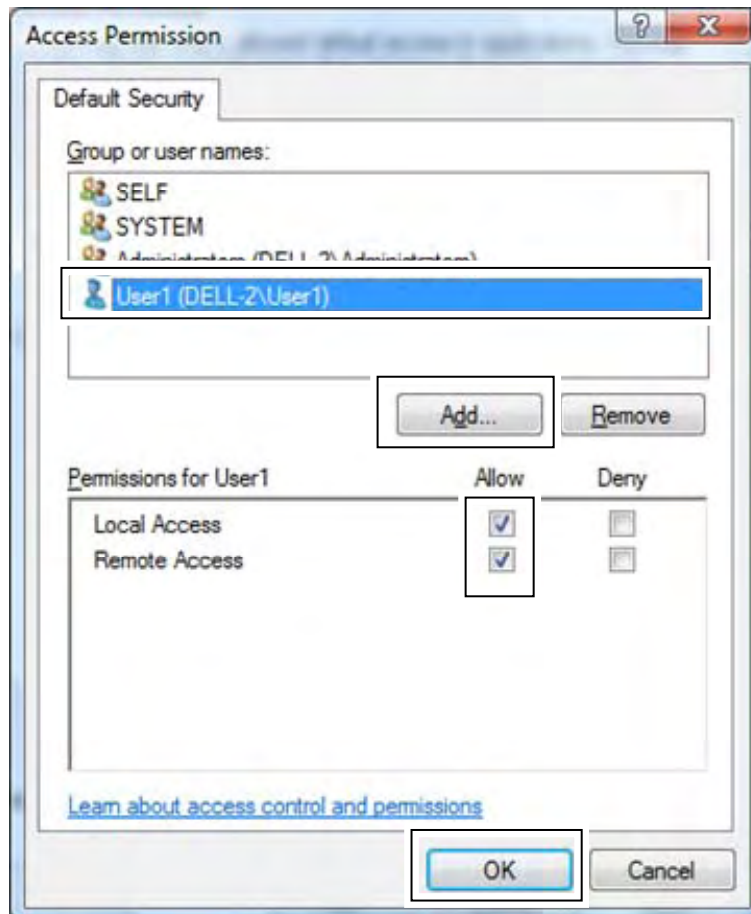
- Right-click [My Computer], and select [Properties].



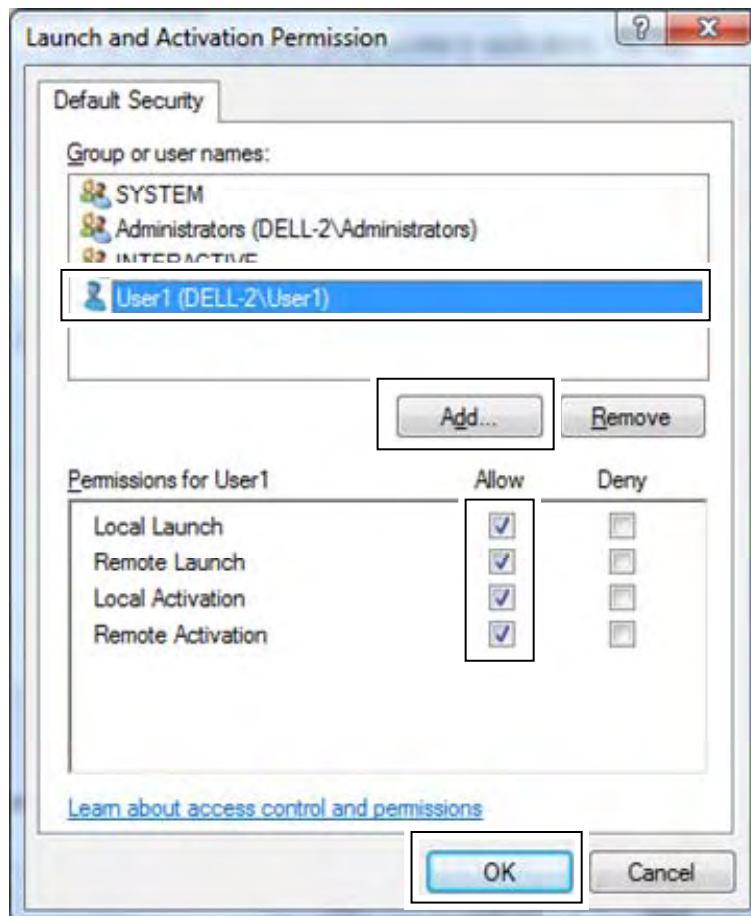
- In the [COM Security] tab in [My Computer Properties], click the [Edit Default] button in [Access Permission] to open the [Access Permission] screen.



- Click the [Edit Default] button of "Access permissions".
- Add the login user name of PC on the displayed "Select Users or Groups" screen after clicking the [Add] button on "Access permission" screen. (Figure is an example for "User1" the login user name of PC.)
- Turn on the check box of all items of "Allow".



- Click the button of the [Edit Default] of "Launch and Activation Permissions".
 - Add the login user name of PC on the displayed "Select Users or Groups" screen after clicking the [Add] button on " Launch and Activation Permissions" screen. (Figure is an example for "User1" the login user name of PC.)
- Turn on the check box of all items of "Allow".

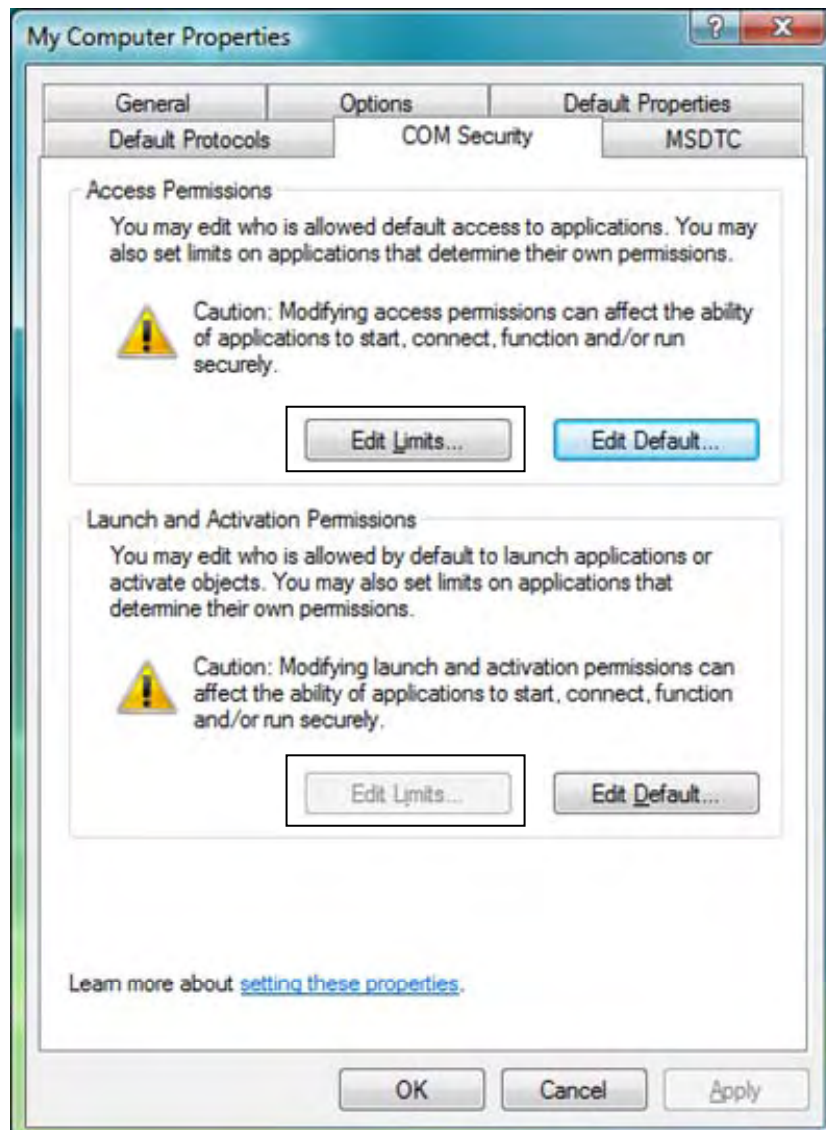


■ Setting the DCOM (Edit Limits)

Perform this setting both on the client PC and server PC.

In the DCOM security setting, set “Limit” of [Access Permissions] and [Launch and Activation Permissions].

- Right-click [My Computer], and select [Properties].



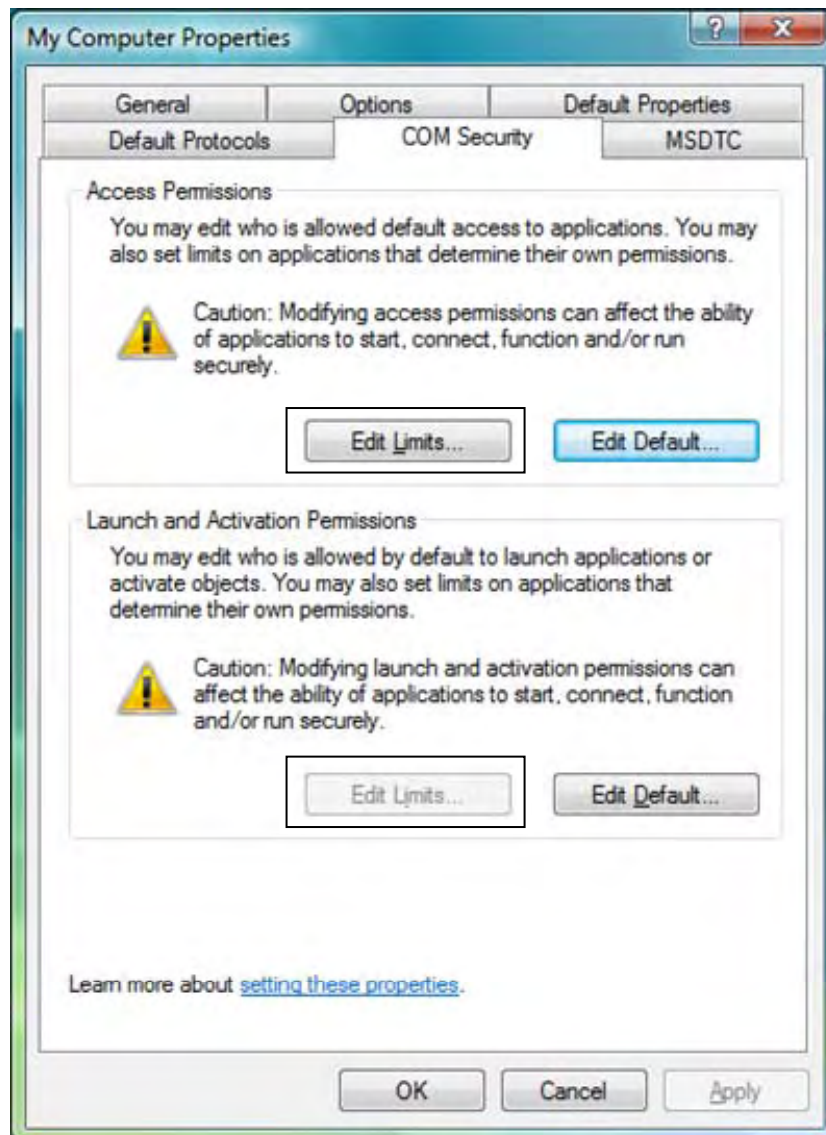
Set here ahead according to the environment of the computer that uses it.

If it can select the [Edit Limits] button in [Access Permission] and [Launch and Activation Permissions], proceed to [Setting DCOM by using the Component services].

If it can not select the [Edit Limits] button in [Access Permission] and [Launch and Activation Permissions], proceed to [Setting DCOM by using the Local Security Policy]. Or close to the Component services.

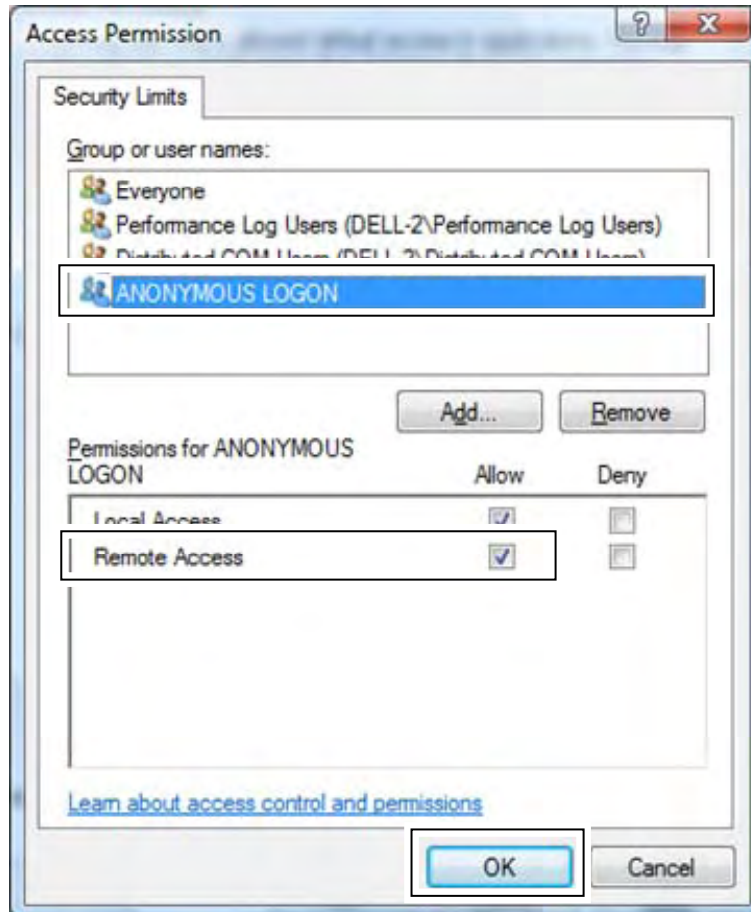
[Setting DCOM by using the Component services]

- In the [COM Security] tab in [My Computer Properties], click the [Edit Limits] button in [Access Permission] to open the [Access Permission] screen.



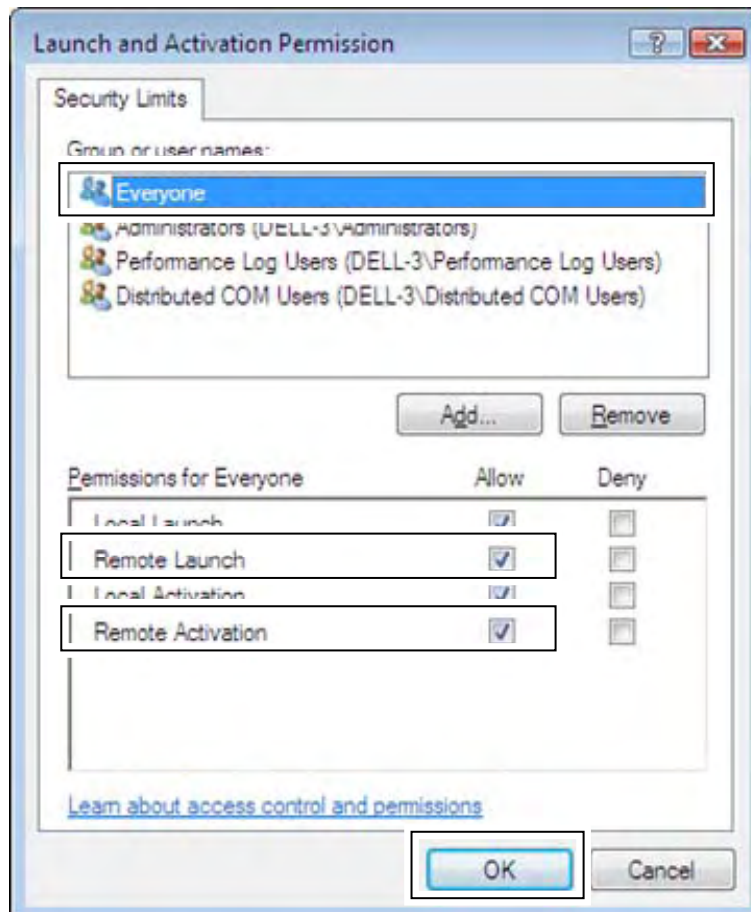
- For the "ANONYMOUS LOGON" user, click [Allow] of [Remote Access], and click the OK button.

2



- In the [COM Security] tab in [My Computer Properties], click the [Edit Limits] button in [Launch and Activation Permissions] to open the [Launch Permission] screen.
- For the "Everyone" user, click [Allow] of [Remote Launch] and [Remote Activation], and click the OK button.

2



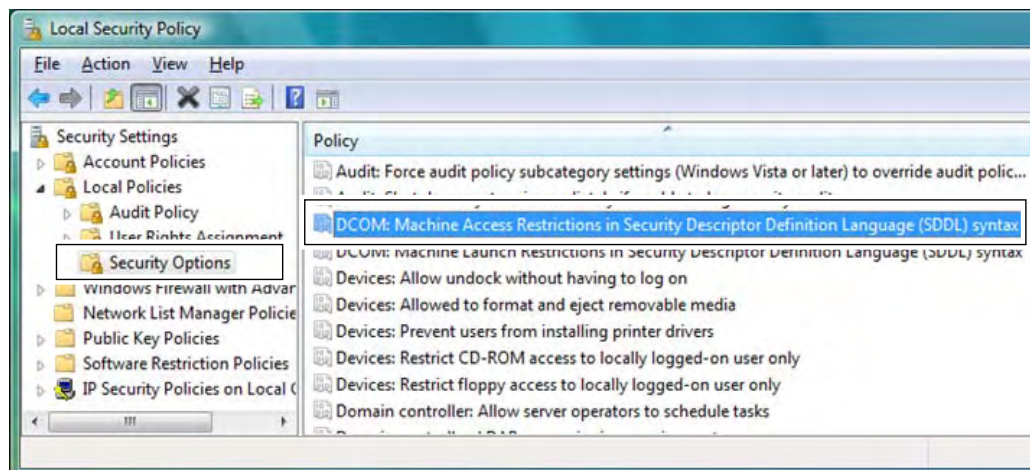
- Restart the computer.
- Proceed to "2.2.2 Step 2: Setting up the V-Tool (C/S)".

[Setting DCOM by using the Local Security Policy]

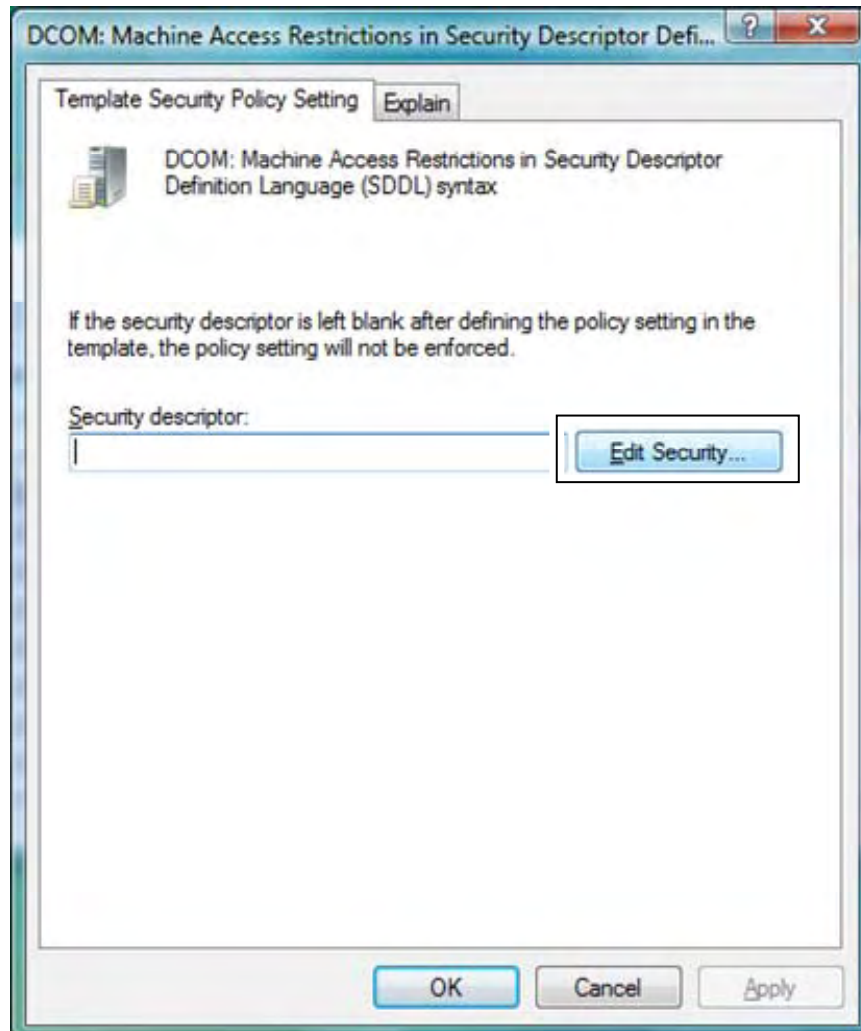
- If DCOM was set by [Setting DCOM by using the Component services], should not this setting.

First set "Access Permission".

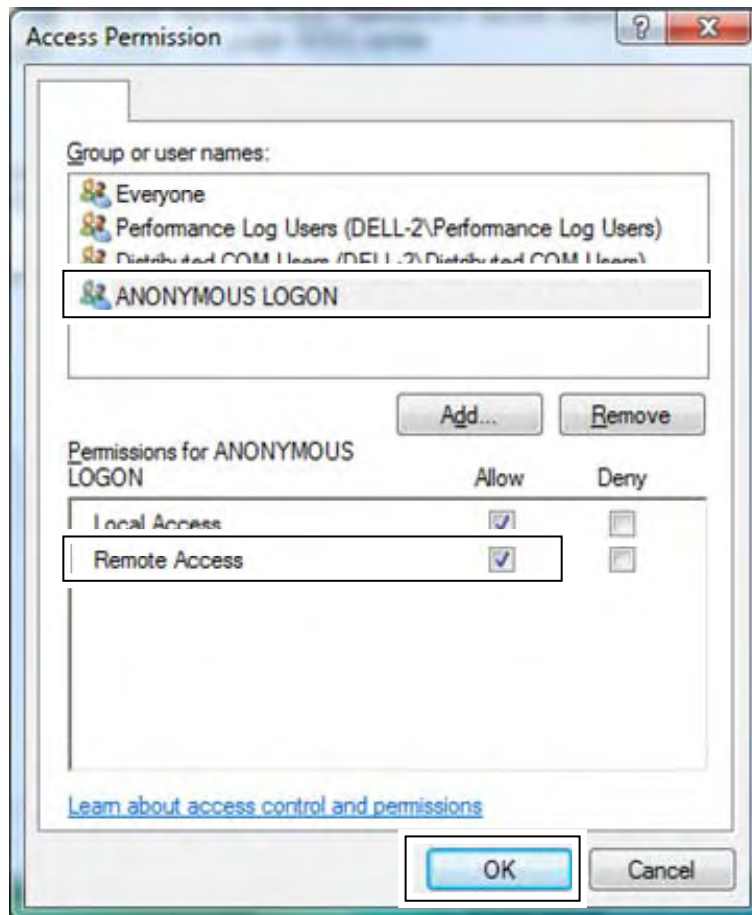
- From the Start menu, open [Control Panel], and run [Administrative Tools] -> [Local Security Policy].
- From [Security Options] in [Local Policies], right-click [DCOM: Machine Access Restrictions in Security Descriptor Definition Language (SDDL) syntax], and select [Properties].



- Click the [Edit Security] button to open the [Access Permission] screen.



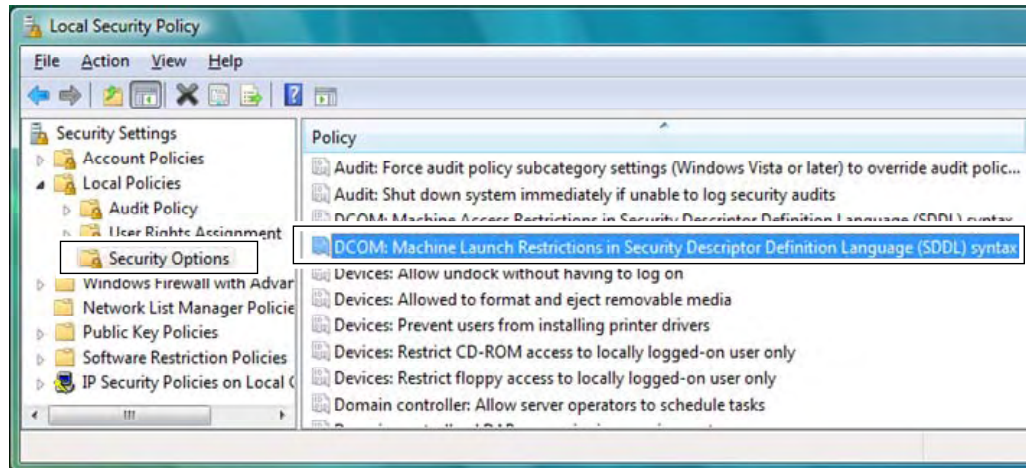
- For the "ANONYMOUS LOGON" user, click [Allow] of [Remote Access], and click the OK button.



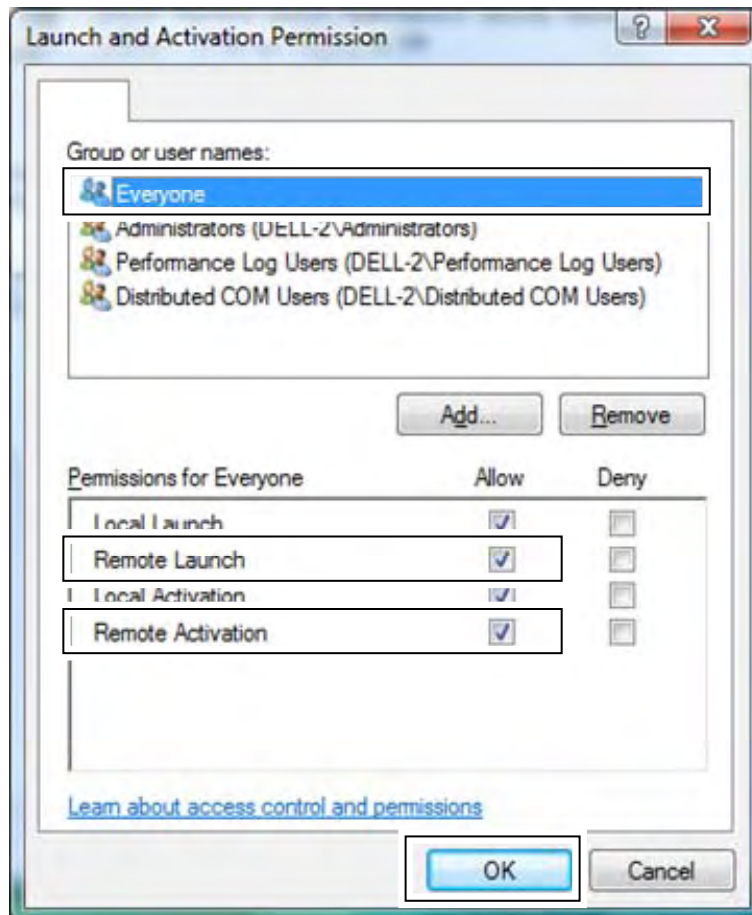
- In the [DCOM: Machine Access Restrictions in Security Descriptor Definition Language (SDDL) syntax] screen, click the OK button to close the screen.

Next, set [Launch Permission].

- From [Security Options] in [Local Policy], right-click [DCOM: Machine Launch Restriction in Security Descriptor Definition Language (SDDL) syntax], and select [Properties].



- Click the [Edit Security] button to open the [Launch Permission] screen.
- For the "Everyone" user, click [Allow] of [Remote Launch] and [Remote Activation], and click the OK button.



- In the [DCOM: Machine Launch Restriction in Security Descriptor Definition Language (SDDL) syntax] screen, click the OK button to close the screen.
- Close the [Local Security Policy] screen.
- Restart the computer.

2.2.2 Step 2: Setting up the V-Tool (C/S)

Set up the V-Tool software to the PC in the following steps.

Perform them with the administrator authority.

- Setting up the server PC
- Setting up the client PC

2

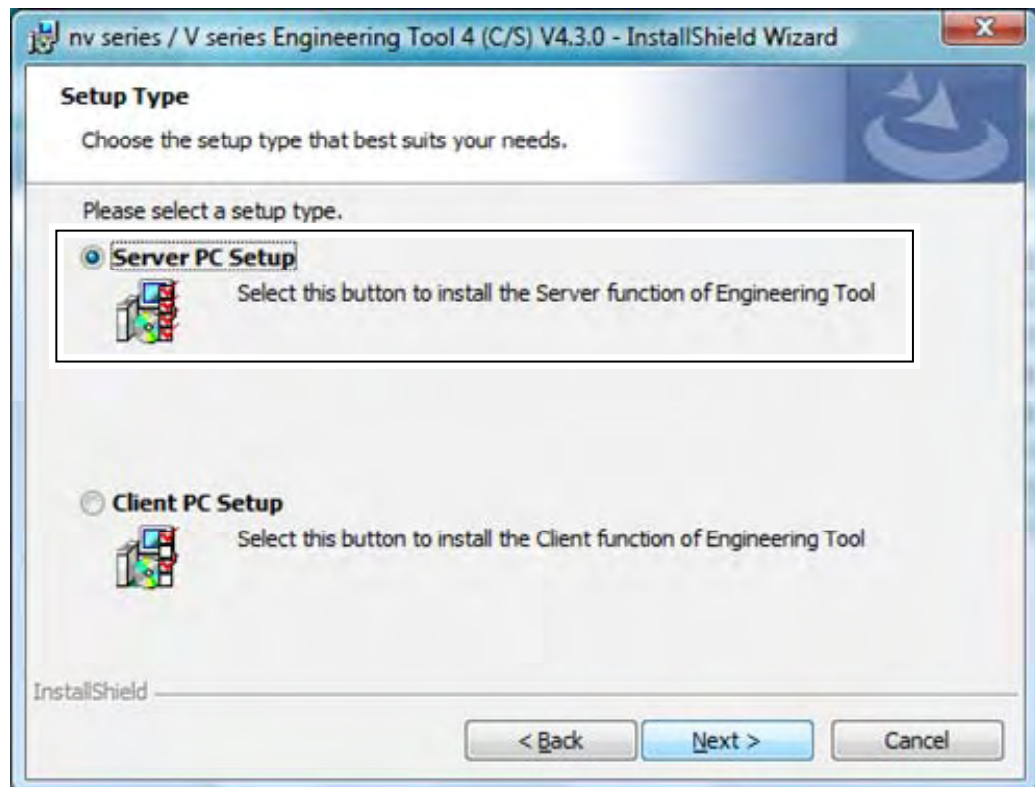
■ Setting up the server PC

The overall setup is described below.

- Exit from all the applications that are running.
- If the real-time search service of antivirus software is running, stop the service until V-Tool setup is complete. If the setup is performed while the antivirus software is running, it may take longer.
- From the Start menu, Open [Control Panel] and uninstall V-Tool if it is installed.
- Mount the V-Tool CD on the CD-ROM drive.

The setup screen is automatically displayed. Setup.exe in CD if it doesn't start automatically.

- Perform actions according to the messages.
- To perform setup, select [Server PC Setup].
- Perform actions according to the messages. If the completion message is displayed, the V-Tool has been set up successfully.



◆ Note

- If Ver.1 of the V series Engineering Tool has been installed previously, the overwrite confirmation message may be displayed during the setup. In this case, select Continue, not Cancel.

■ Setting security of the tool administrator folder

- The tool administrator indicates a person who registers users who can use the V-Tool and maintains the user product database.
- The application of V-Tool that the tool administrator uses is the Product manager and the DB maintenance, etc. These software is arranged in start menu < All Programs >> nv series Engineering Tool 4 (Management)>
- The application exists in the [Maintenance] folder under the destination folder of V-Tool. The [Maintenance] folder is said the tool administrator folder.

◆ Note

- When installing it, an old version (Earlier version than V4.2.0, V3.10.0 or V2.14.0) was able to specify the folder for the tool administrator. However, the folder is fixation because it improves user's convenience.

- Any user can use the application that the tool administrator uses in default. However, if security is set, only the tool administrator can use it.

If no security is considered, the setting in this section is not required.

Proceed to "2.2.3 Step 3: Registering users of the V-Tool (C/S)".

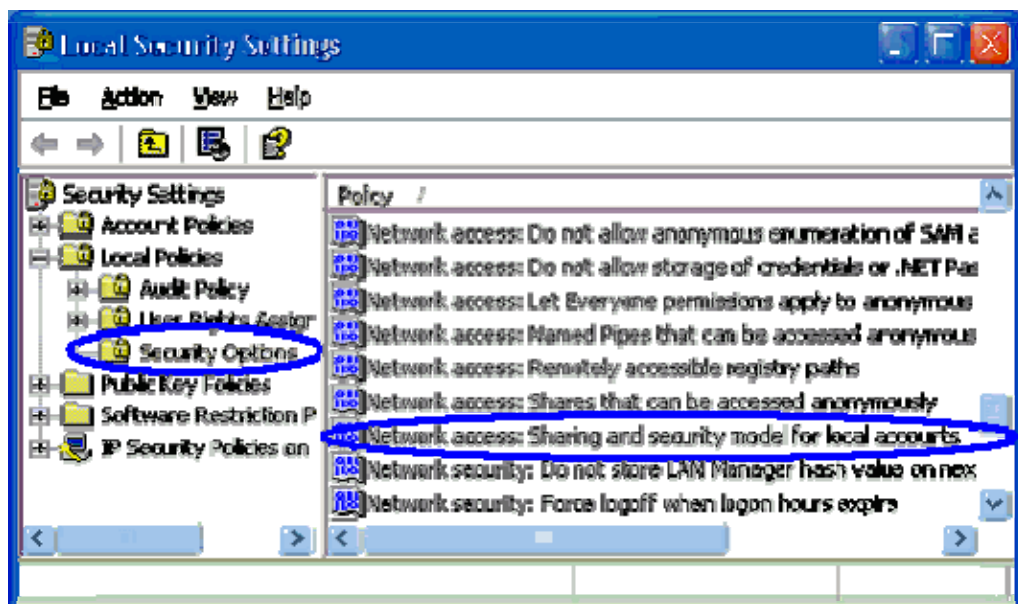
◆ Note

- Set the following if it set security by using an old version for the tool administrator folder.

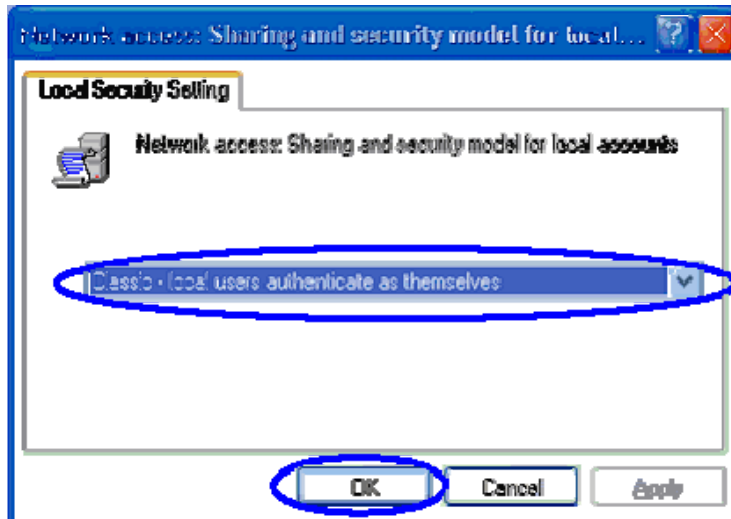
Set here ahead according to OS used.

[For WindowsXP]

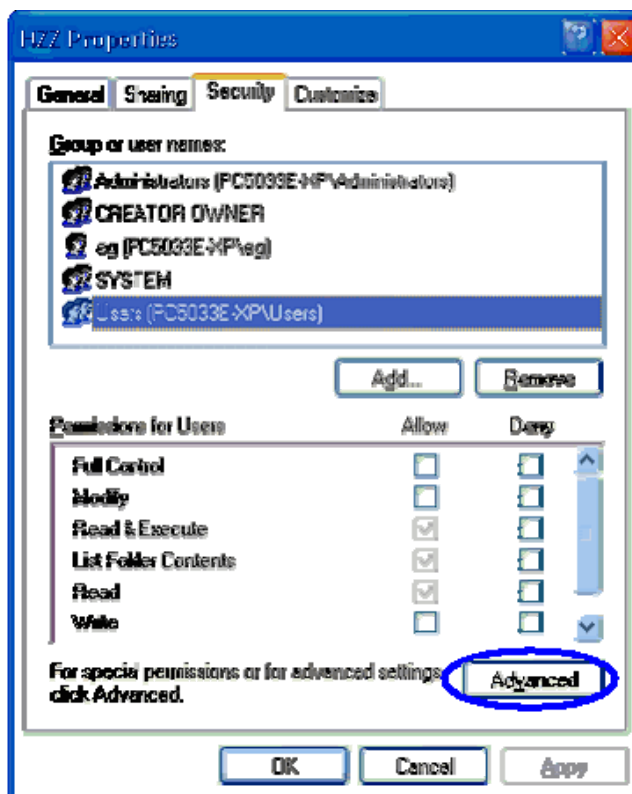
- From the Start menu, open [Control Panel], and run [Administrative Tools] -> [Local Security Settings].
- From [Security Options], right-click [Network access: Sharing and security model for local accounts], and then select [Properties].



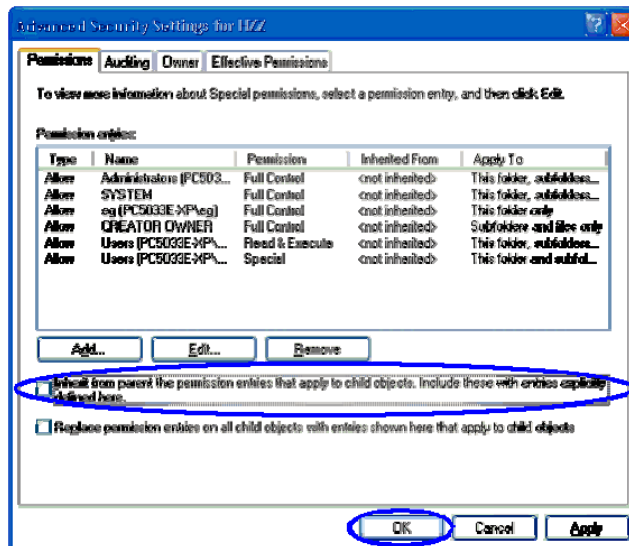
- Select [Classic: Local users authenticate as themselves], and click the OK button.



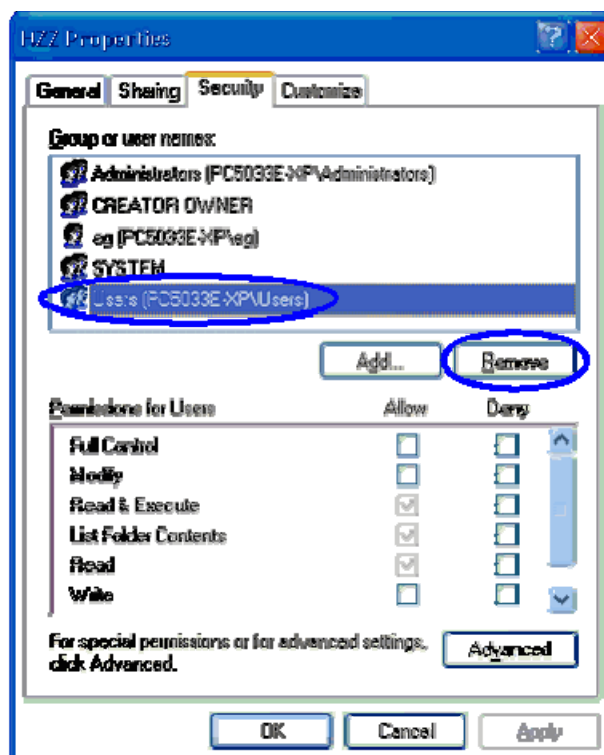
- From the [Start] menu, start [All Programs] -> [Accessories] -> [Explorer].
- Select the [Maintenance] folder, right-click it, and then select [Properties].
- In the [Security] tab, click the [Advanced] button.



- In the [Permissions] tab, clear the [Inherit from parent the permission entries that apply to child objects. Include these with entries explicitly defined here] check box.
- In the [Security] dialog, select [Copy].
- Click the OK button to close the screen.

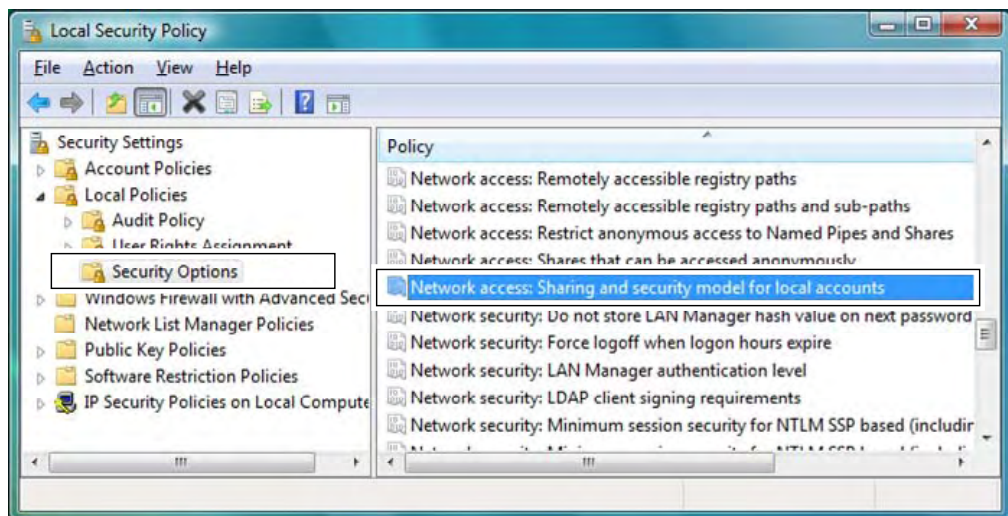


- In the [Security] tab, select [Users], and click the Remove button.
- Click the OK button to close the screen.

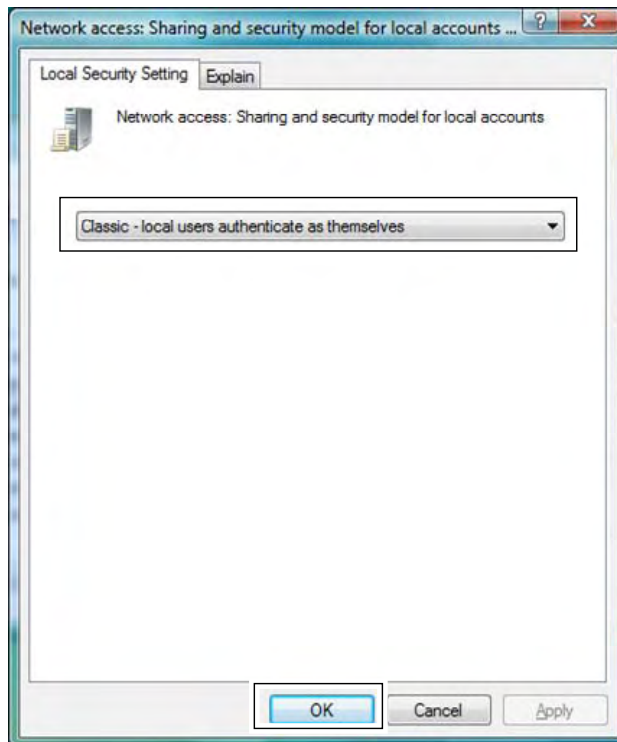


[For Windows Vista]

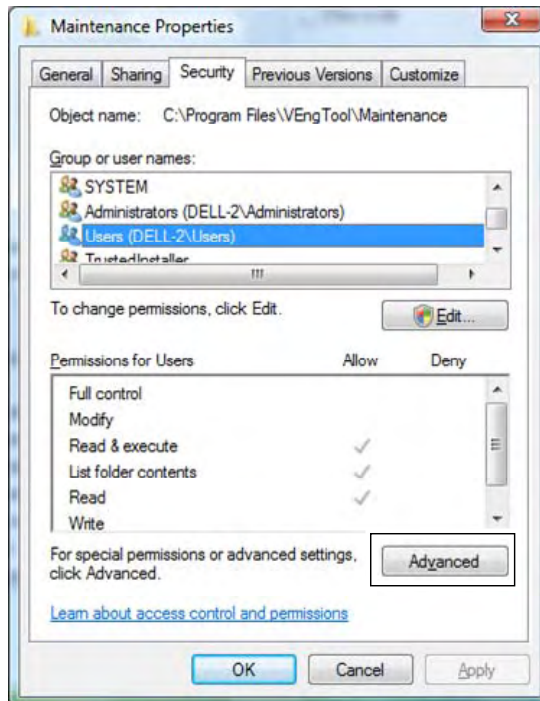
- From the Start menu, open [Control Panel], and run [System and Maintenance] -> [Administrative Tools] -> [Local Security Policy].
- From [Security Options], right-click [Network access: Sharing and security model for local accounts], and then select [Properties].



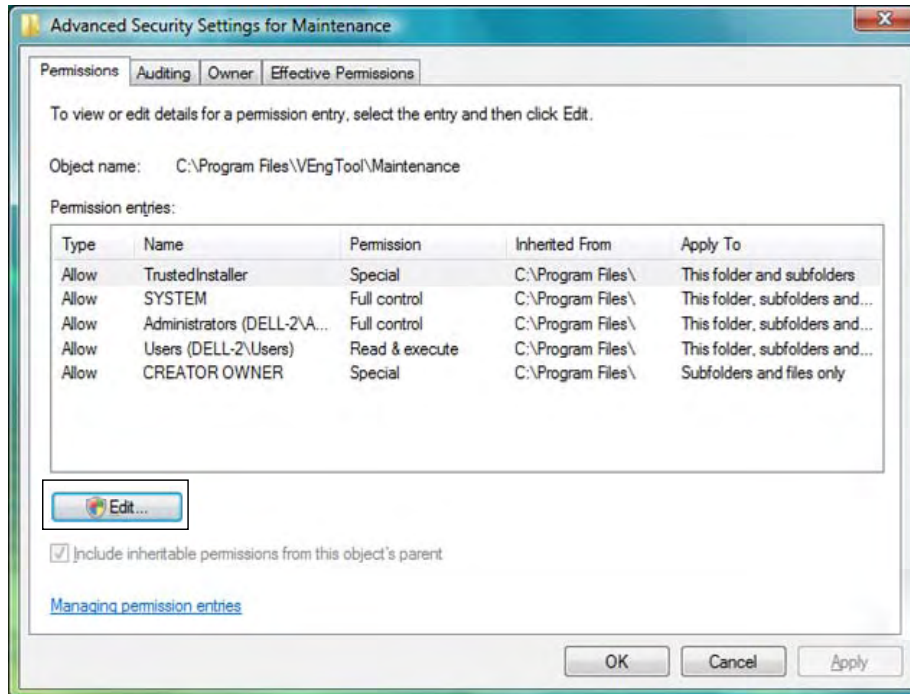
- Select [Classic: Local users authenticate as themselves], and click the OK button.



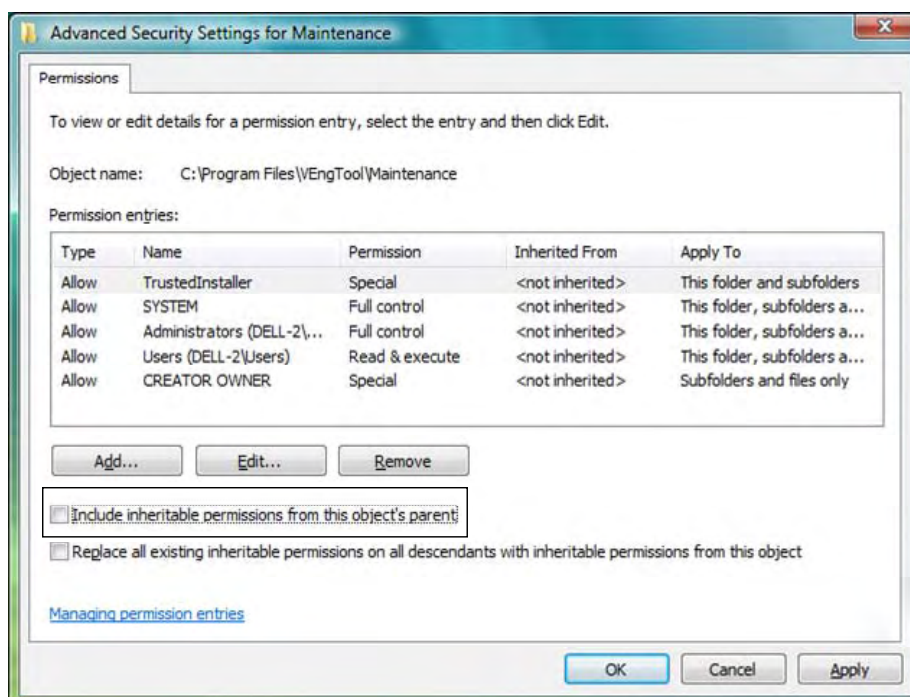
- From the [Start] menu, start [All Programs] -> [Accessories] -> [Explorer].
- Select the [Maintenance] folder, right-click it, and then select [Properties].
- In the [Security] tab, click the [Advanced] button.



- In the [Permissions] tab, click [Edit].

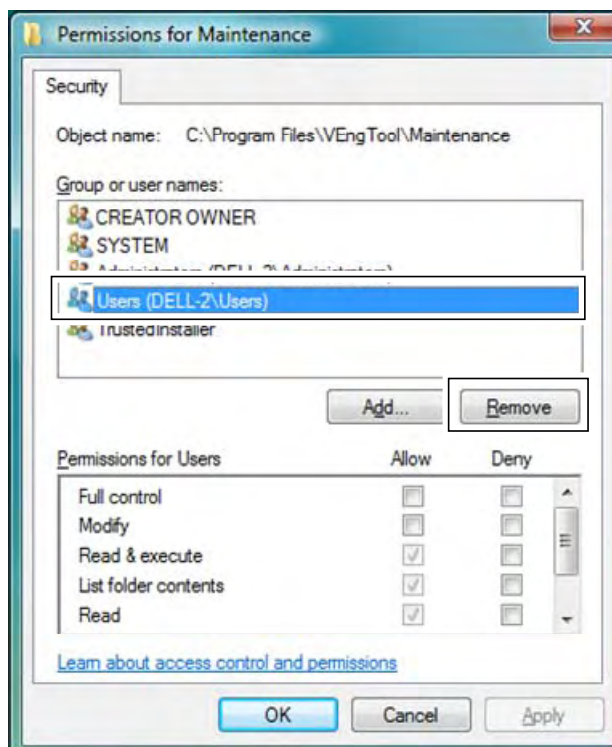
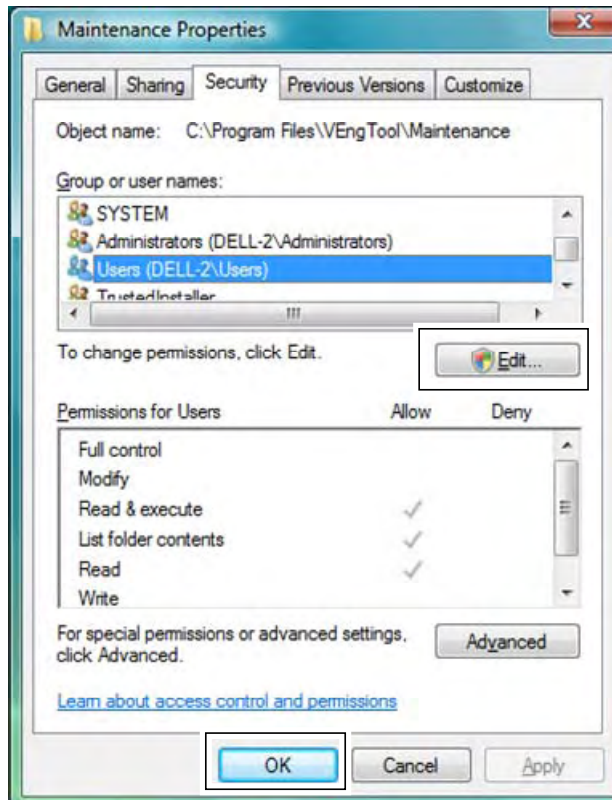


- Clear the [Include inheritable permissions from this object's parent] check box.
- In the [Security] dialog, select [Copy].
- Click the OK button to close the screen.



- In the [Security] tab, click Edit button.
- Select [Users], and click the Remove button.
- Click the OK button to close the screen.

2



<Setting the execution account> (Important)

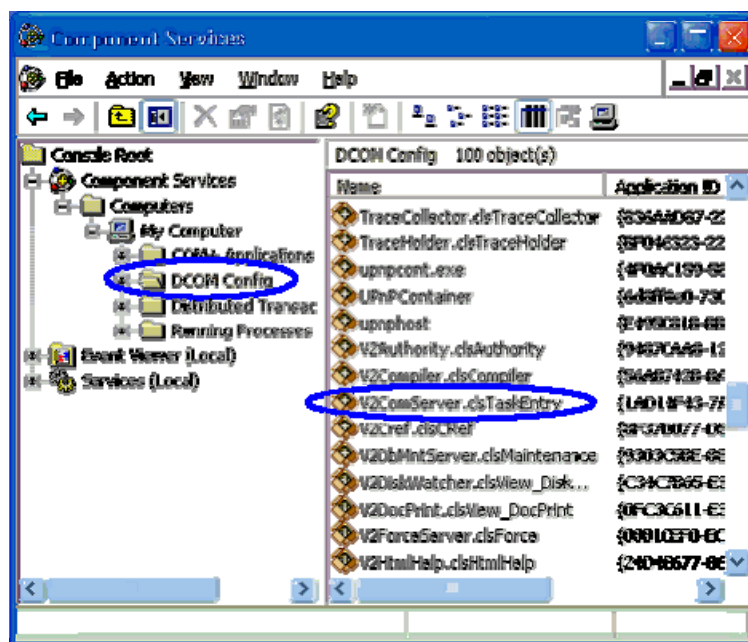
For services running on the server, appropriate execution rights (execution accounts) must be set.

Set them on the server PC.

Set here ahead according to OS used.

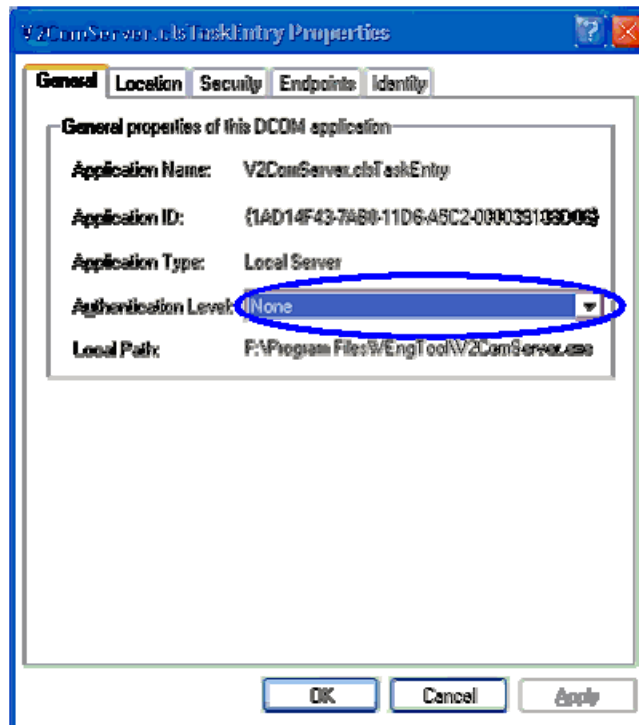
[For WindowsXP]

- From the Start menu, open [Control Panel] and run [Administrative Tools] -> [Component Services].
- From [DCOM Config], right-click [V2ComServer.clsTaskEntry], and select [Properties].



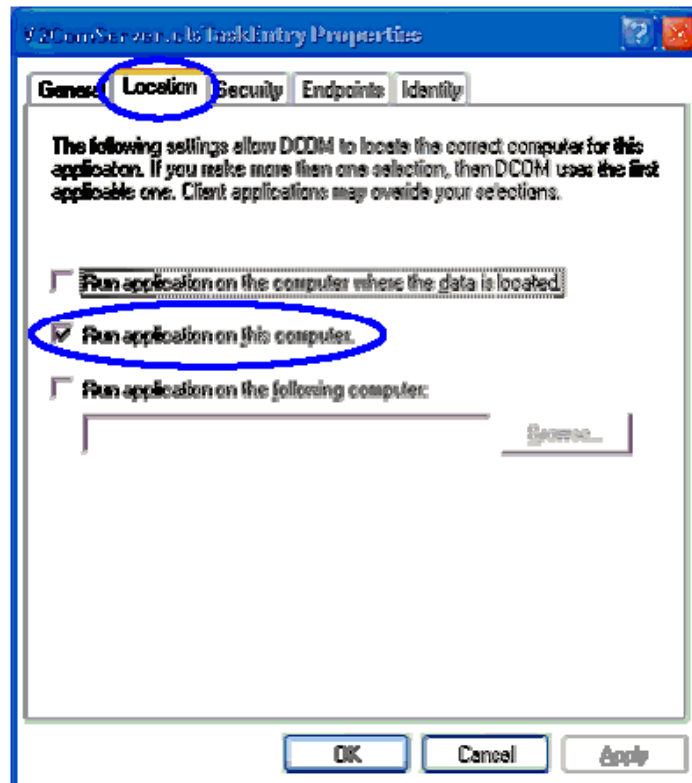
- From [V2ComServer.clsTaskEntry Properties], select the [General] tab.
- From [Authentication Level], select [None].

2

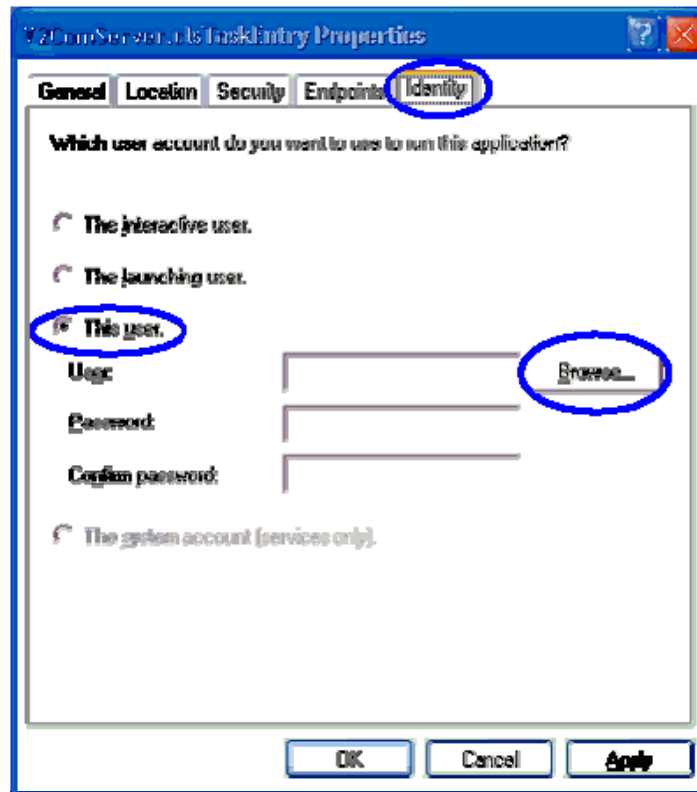


- From [V2ComServer.clsTaskEntry Properties], select the [Location] tab.
- Check that [Run application on this computer] is selected.
- If not, select an application whose beginning part of the name (the part before ".") is the same as V2ComServer and for which [Run application on this computer] is selected.

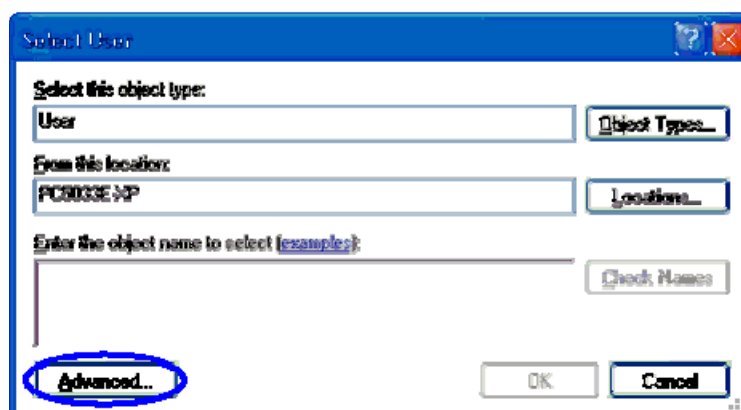
2



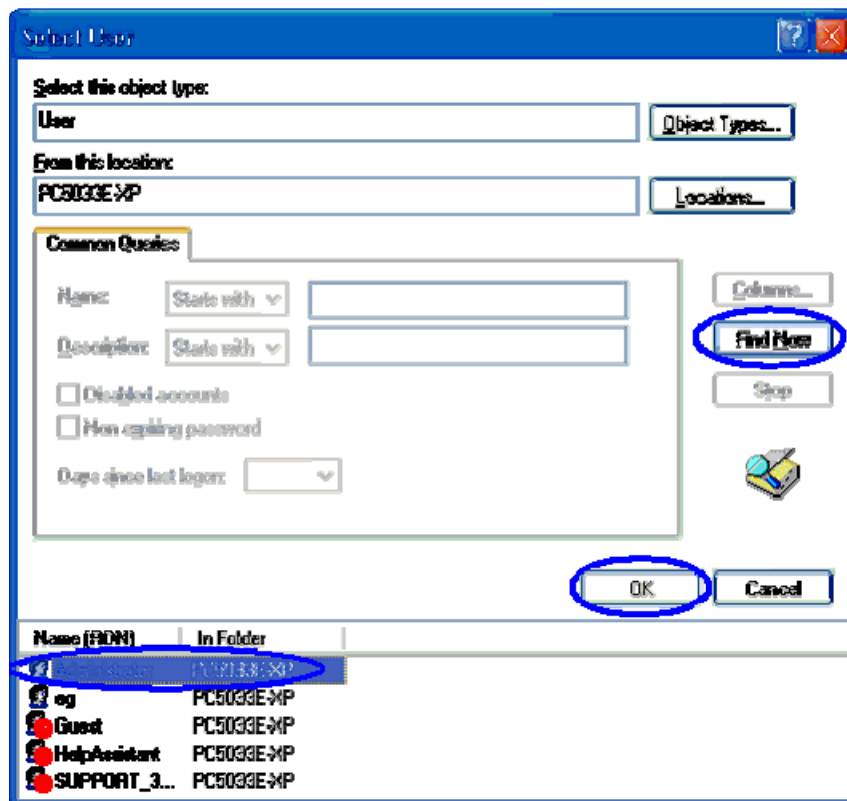
- Select the [Identity] tab.
- Click [This user], and click the Browse button.



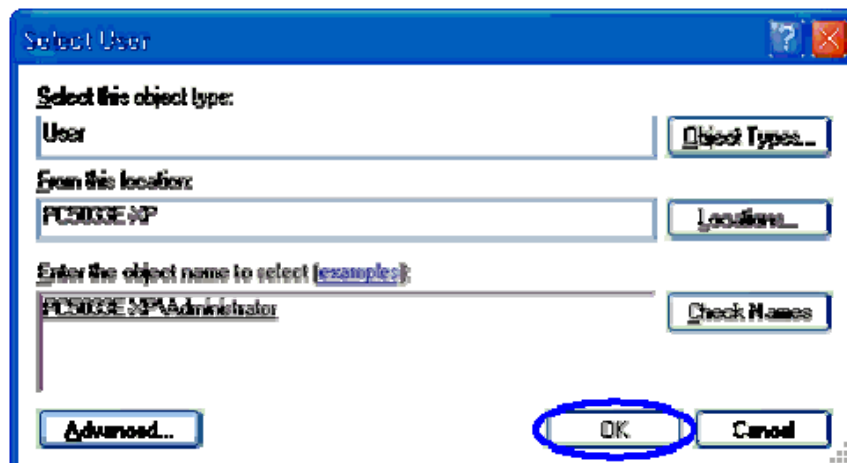
- In the [Select User] dialog, click the Advanced button.



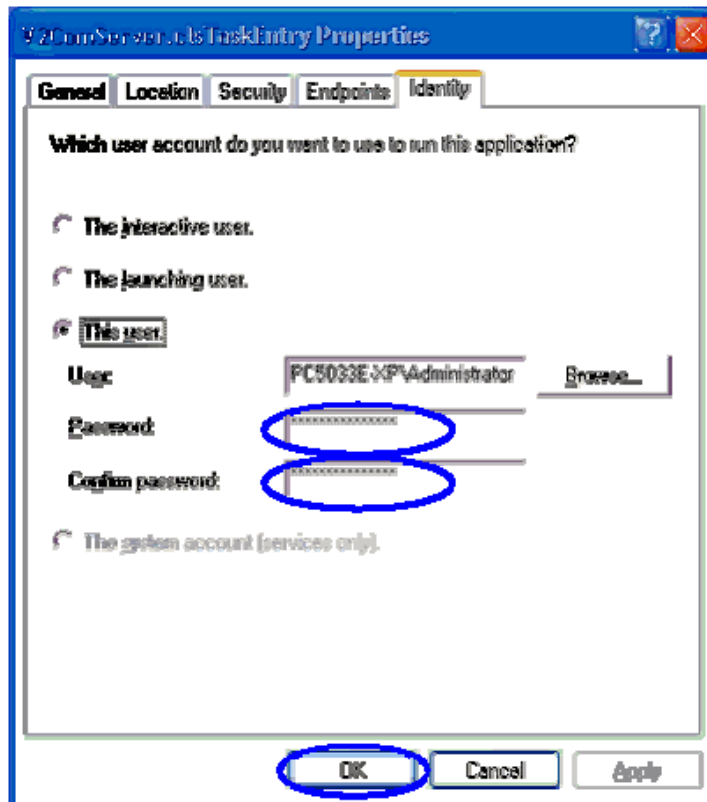
- Click the Find Now button.
- From the [Name] list, select [Administrator].
- Click the OK button.



- Click the OK button.



- Enter the password of the administrator in [Password] and [Confirm password].
- From [V2ComServer.cisTaskEntry Properties], click the OK button.



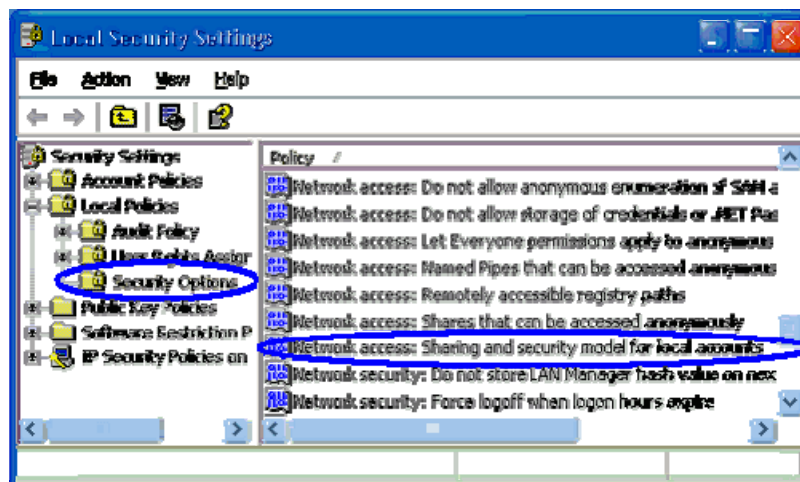
- Perform the execution account setting for all the following services.

No.	Service (application) name
1	V2Authority.clsExecProtectSvr
2	V2Compiler.clsCompiler
3	V2ComServer.clsTaskEntry
4	V2ComServerX.clsProducts
5	V2CRef.clsCRef
6	V2DbMntServer.clsMaintenance
7	V2Dup.clsVarsOutDup
8	V2FindVars.clsFindIOVars
9	V2ForceServer.clsForce
10	V2MioVerifySvr.clsMioVerifySvr
11	V2Port.clsChkWordNo_Imp
12	V2Sec.clsSecSetting
13	V2TagServer.iTagServer
14	V2VarsDef.clsVarsDef
15	V2VarsRef.clsVarsRefX
16	V2XCon.clsExEditors
17	V2ZIP.clsZIP
18	V3CustomSymbolMan.clsCusSymbolHandler Perform setting if it is one of the following: <ul style="list-style-type: none"> • Engineering Tool 4 Ver.4.0.0 or later • Engineering Tool 3 Ver.3.1.0 or later

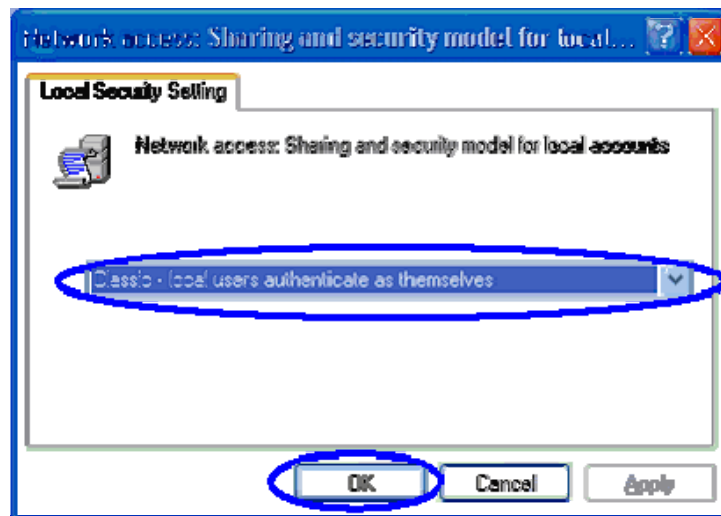
- If the Engineering Tool is set up on the server PC for the first time, perform all the actions in "Setting the execution account."
- For version upgrade, check the settings for all the services. Make sure to open [DCOM Config].
- Restart the PC.

◇ Remark

- No name that matches the service name in the list above may be found. In this case, select an application whose beginning part of the name (the part before ".") is the same as the service name in the list and for which the [Identification] tab exists.
- Services that require setting of the execution account may be changed. After version upgrade, make sure to check the setting.
- From the Start menu, open [Control Panel] and run [Administrative Tools] -> [Local Security Settings].
- From [Security Options], right-click [Network Access: Sharing and security model for local accounts], and select [Properties].

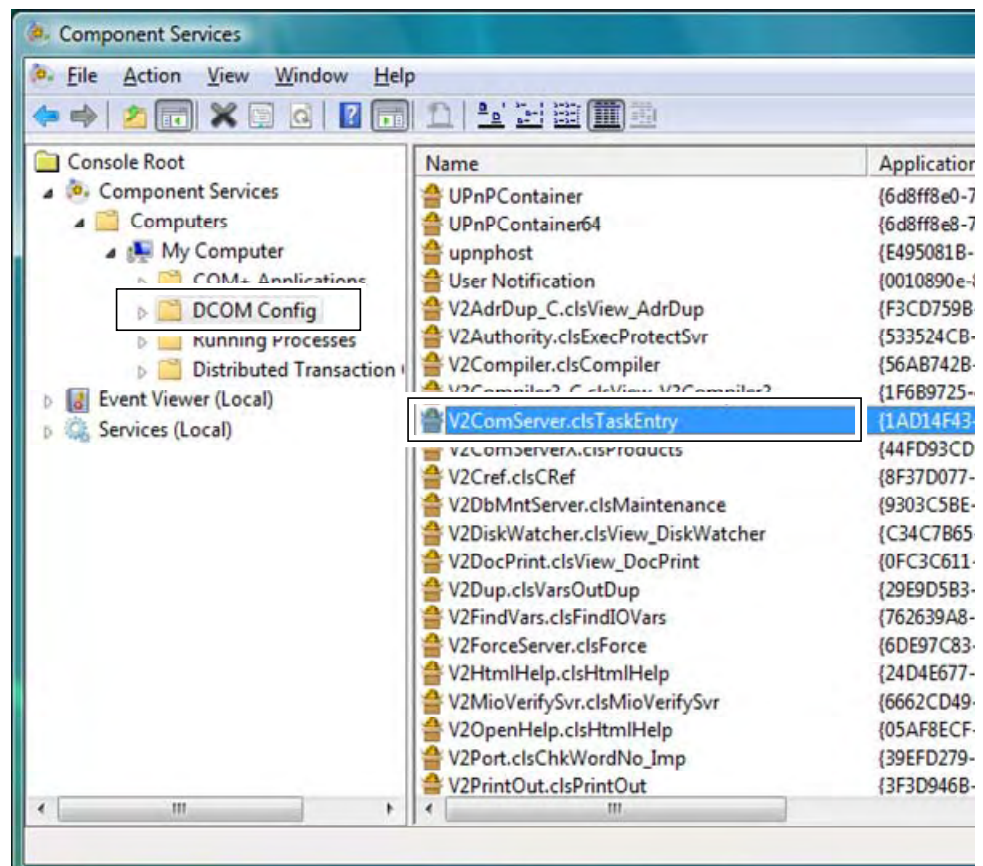


- Select [Classic: Local users authenticate as themselves], and click the OK button.

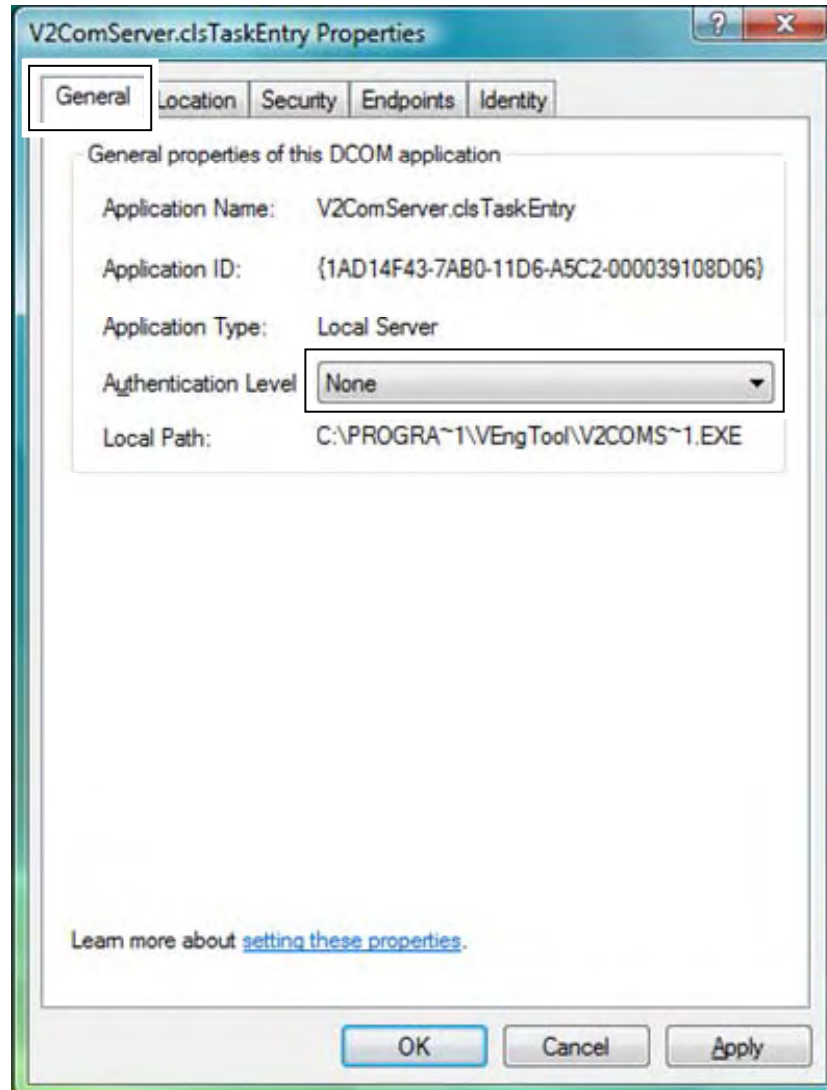


[For Windows Vista]

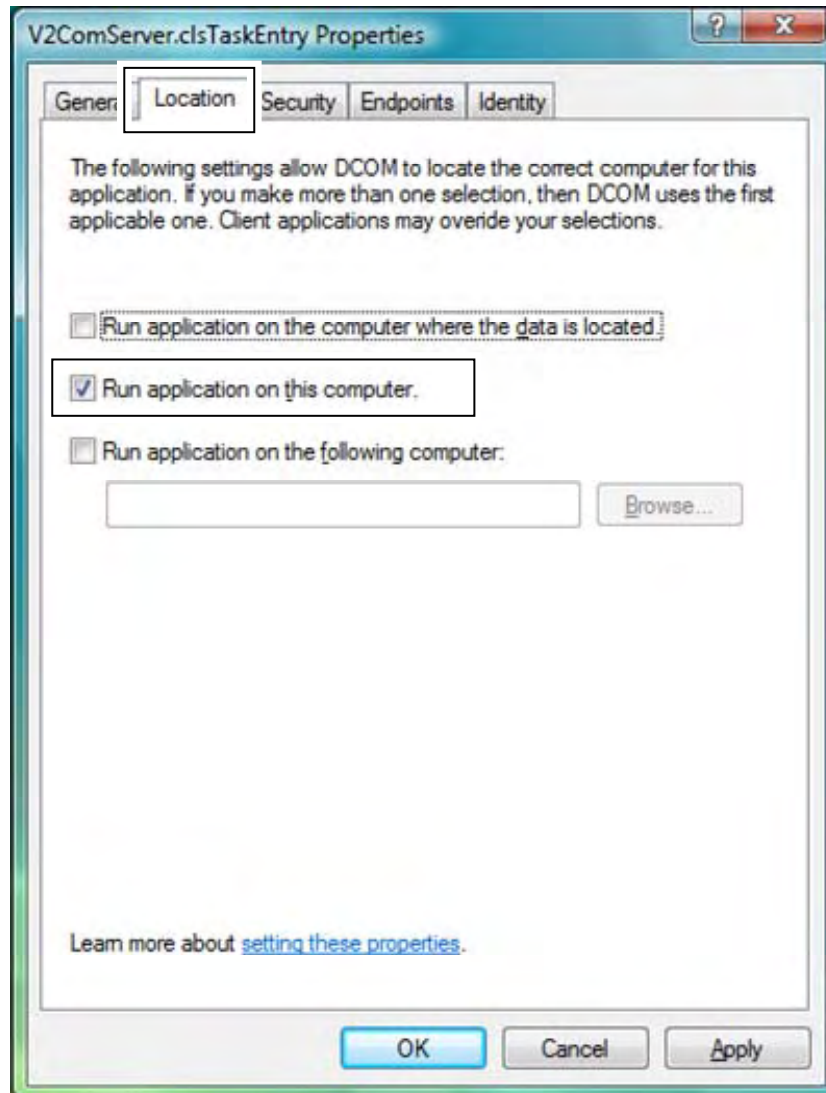
- From the Start menu, open [Control Panel] and run [Administrative Tools] -> [Component Services].
- From [DCOM Config], right-click [V2ComServer.clsTaskEntry], and select [Properties].



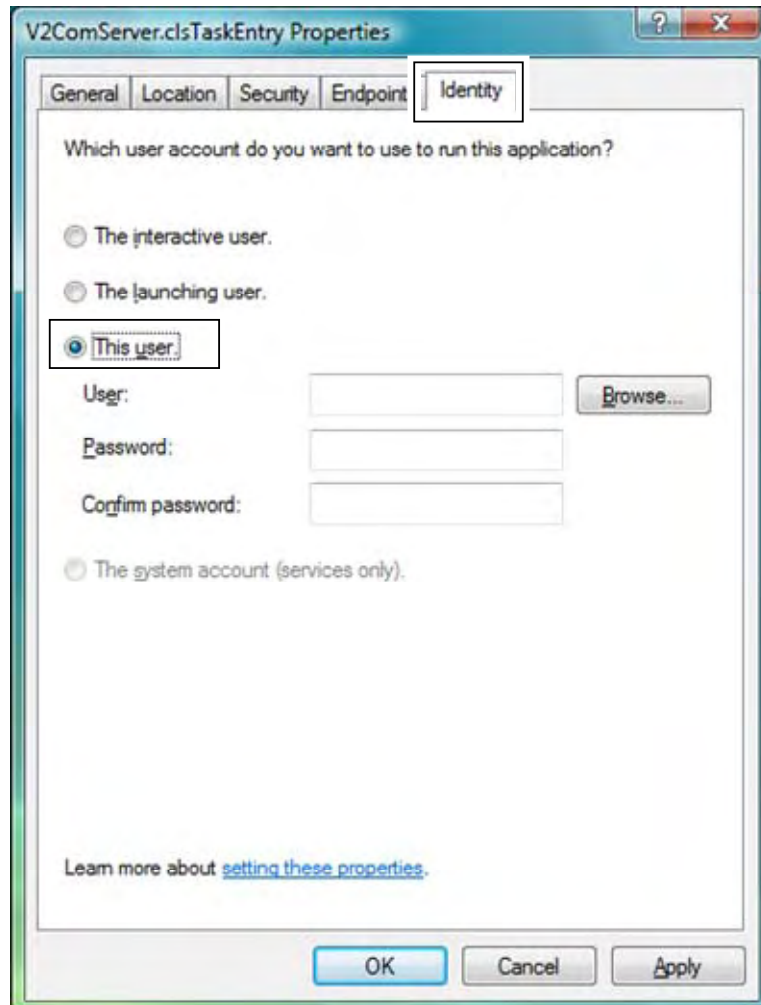
- From [V2ComServer.clsTaskEntry Properties], select the [General] tab.
- From [Authentication Level], select [None].



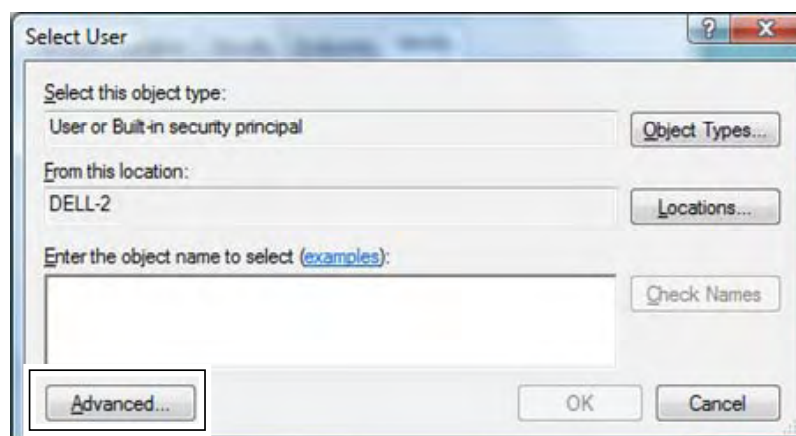
- From [V2ComServer.clsTaskEntry Properties], select the [Location] tab.
- Check that [Run application on this computer] is selected.
- If not, select an application whose beginning part of the name (the part before ".") is the same as V2ComServer and for which [Run application on this computer] is selected.



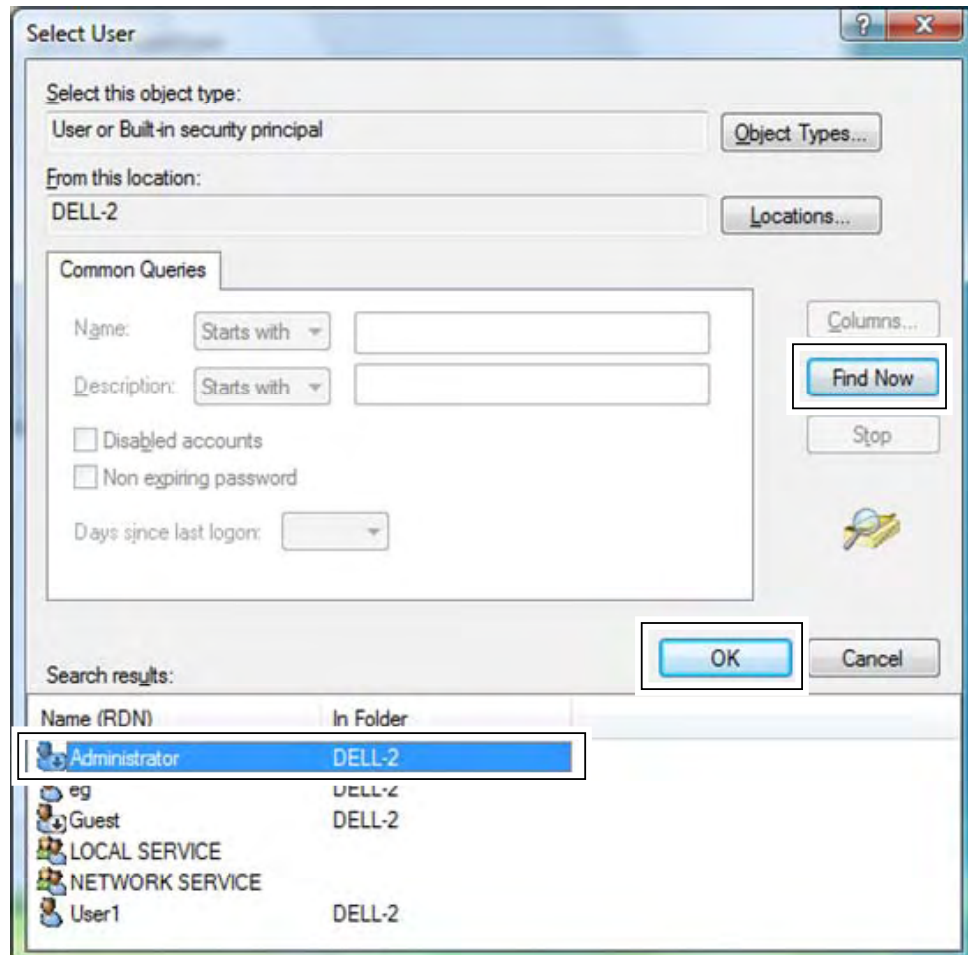
- Select the [Identity] tab.
- Click [This user], and click the Browse button.



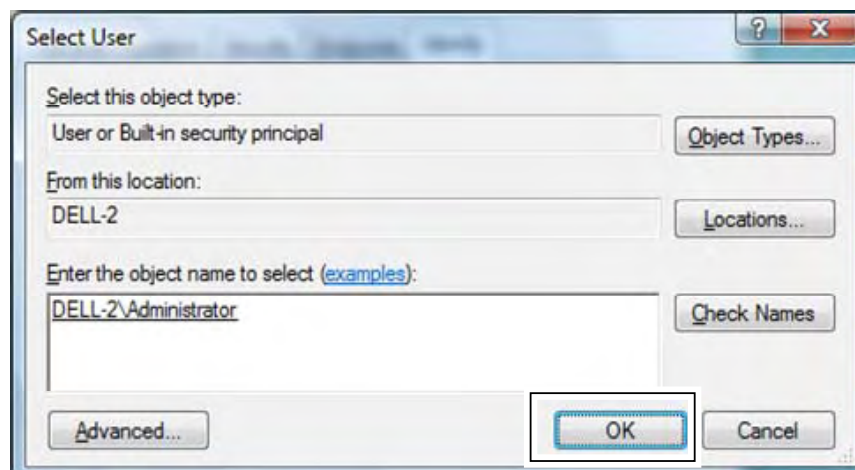
- In the [Select User] dialog, click the Advanced button.



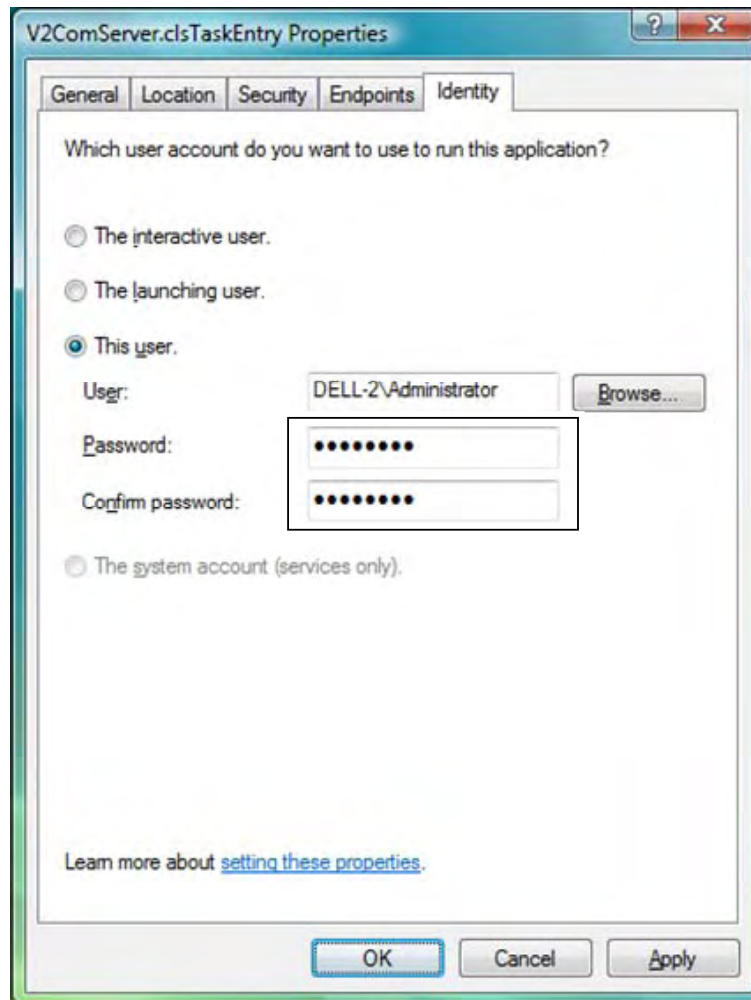
- Click the Find Now button.
- From the [Name] list, select [Administrator].
- Click the OK button.



- Click the OK button.



- Enter the password of the administrator in [Password] and [Confirm Password].
- From [V2ComServer.clsTaskEntry Properties], click the OK button.



- Perform the execution account setting for all the following services.

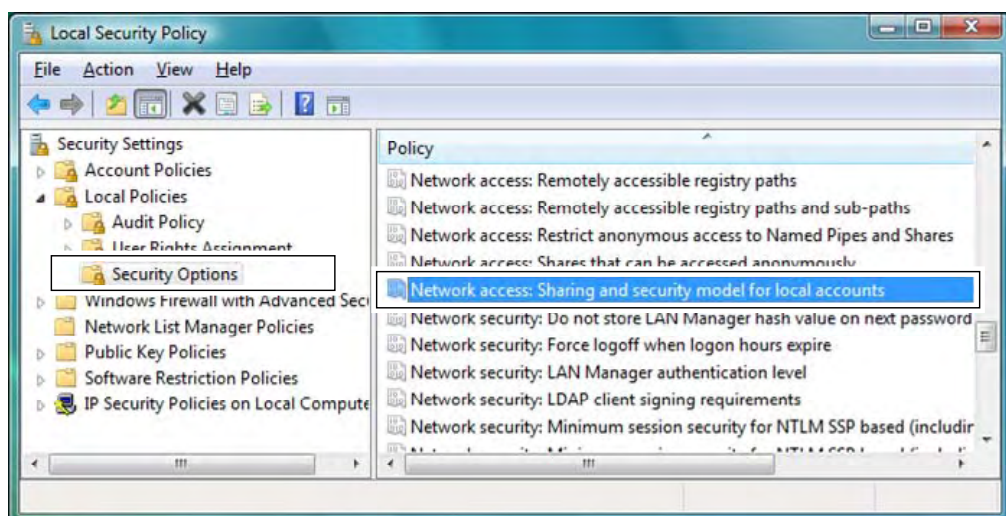
No.	Service (application) name
1	V2Authority.clsExecProtectSvr
2	V2Compiler.clsCompiler
3	V2ComServer.clsTaskEntry
4	V2ComServerX.clsProducts
5	V2CRef.clsCRef
6	V2DbMntServer.clsMaintenance
7	V2Dup.clsVarsOutDup
8	V2FindVars.clsFindIOVars
9	V2ForceServer.clsForce
10	V2MioVerifySvr.clsMioVerifySvr
11	V2Port.clsChkWordNo_Imp
12	V2Sec.clsSecSetting

13	V2TagServer.iTagServer
14	V2VarsDef.clsVarsDef
15	V2VarsRef.clsVarsRefX
16	V2XCon.clsExEditors
17	V2ZIP.clsZIP
18	V3CustomSymbolMan.clsCusSymbolHandler Perform setting if it is one of the following: <ul style="list-style-type: none"> • Engineering Tool 4 Ver.4.0.0 or later • Engineering Tool 3 Ver.3.1.0 or later

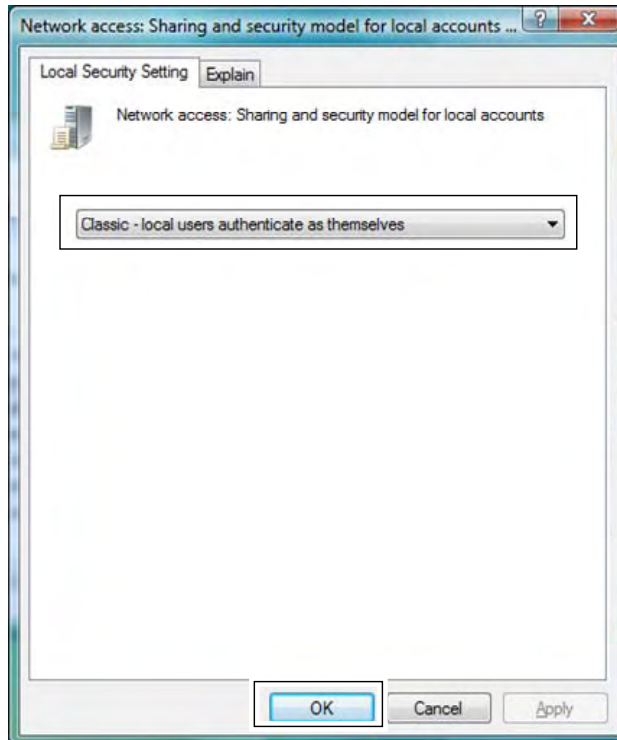
- If the Engineering Tool is set up on the server PC for the first time, perform all the actions in "Setting the execution account."
- For version upgrade, check the settings for all the services. Make sure to open [DCOM Config].
- Restart the PC.

◇ Remark

- No name that matches the service name in the list above may be found. In this case, select an application whose beginning part of the name (the part before ".") is the same as the service name in the list and for which the [Identification] tab exists.
- Services that require setting of the execution account may be changed. After version upgrade, make sure to check the setting.
- From the Start menu, open [Control Panel] and run [Administrative Tools] -> [Local SecurityPolicy].
- From [Security Options], right-click [Network access: Sharing and security model for local accounts], and select [Properties].



- Select [Classic: Local users authenticate as themselves], and click the OK button.



2

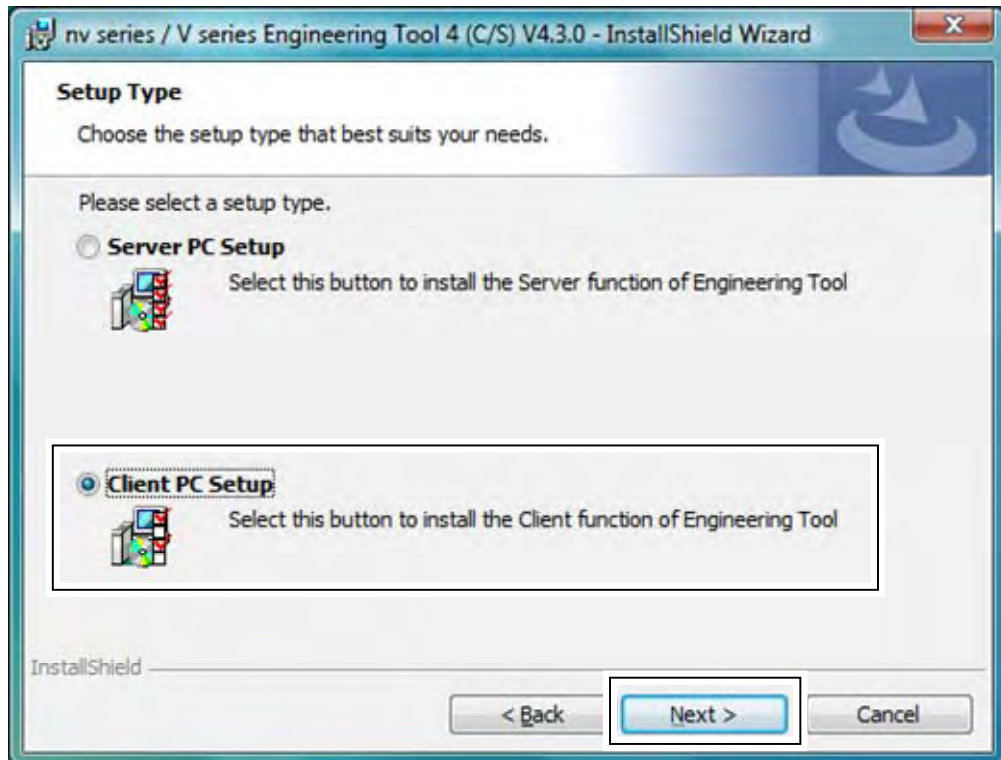
■ Setting up the client PC

The overall setup is described below.

- Exit from all the applications that are running.
- If the real-time search service of antivirus software is running, stop the service until V-Tool setup is complete. If the setup is performed while the antivirus software is running, it may take longer.
- Mount the V-Tool CD on the CD-ROM drive.

The setup screen is automatically displayed. Setup.exe in CD if it doesn't start automatically.

- Perform actions according to the messages.
- To perform setup, select [Client PC Setup].
- Perform actions according to the messages. If the completion message is displayed, the V-Tool has been set up successfully.



◆ **Note**

- If Ver.1 of the V series Engineering Tool has been installed previously, the overwrite confirmation message may be displayed during the setup. In this case, select Continue, not Cancel.

<Setting the authentication level>

This is the setting for using the server's services from the clients.

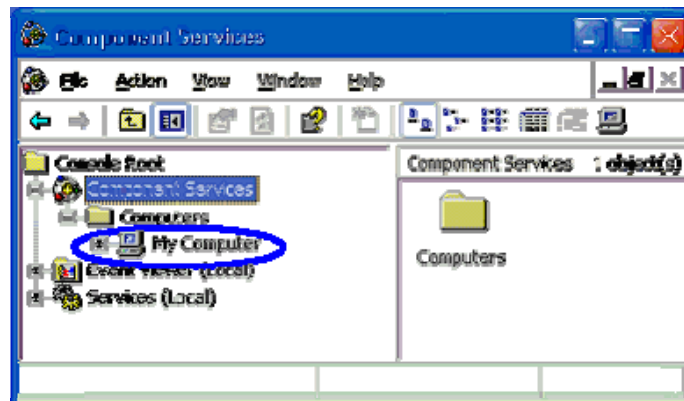
Perform these actions on all the PCs that are "clients" in the client-server configuration.

Set here ahead according to OS used.

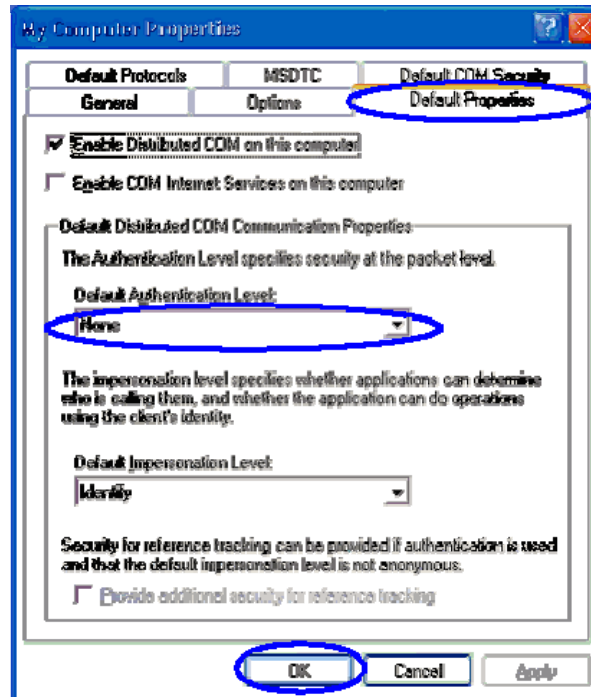
2

[For WindowsXP]

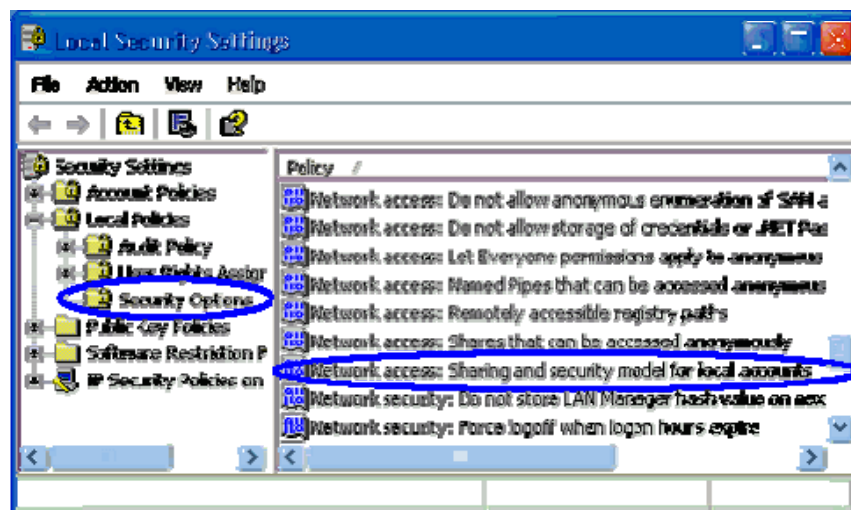
- From the Start menu, open [Control Panel] and run [Administrative Tools] -> [Component Services].
- Right-click [My Computer], and select [Properties].



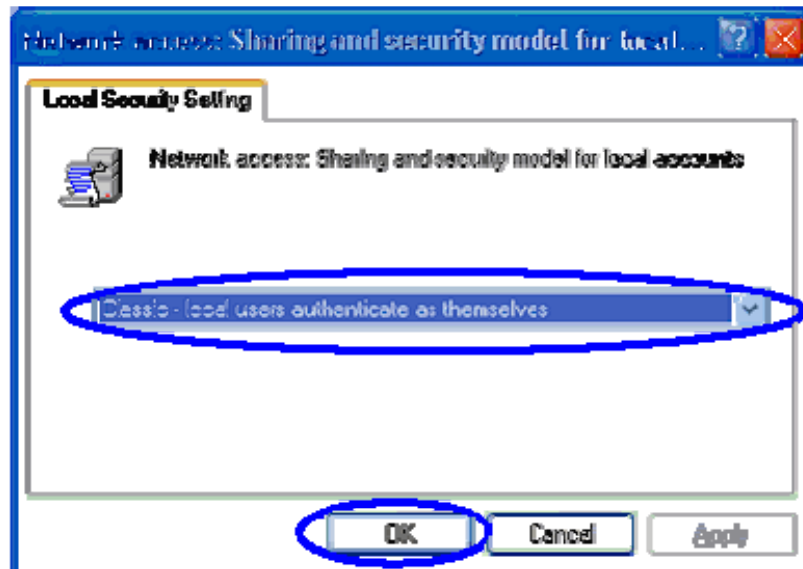
- From [My Computer Properties], select the [Default Properties] tab.
- From [Default Authentication Level], select [None] and click the OK button.



- Perform the [Authentication Level Setting] action only when starting the Engineering Tool on the client PC for the first time. No additional setting is required upon version upgrade.
- From the Start menu, open [Control Panel] and run [Administrative Tools] -> [Local Security Settings].
- From [Security Options], right-click [Network Access: Sharing and security model for local accounts], and select [Properties].



- Select [Classic: local users authenticate as themselves], and click the OK button.



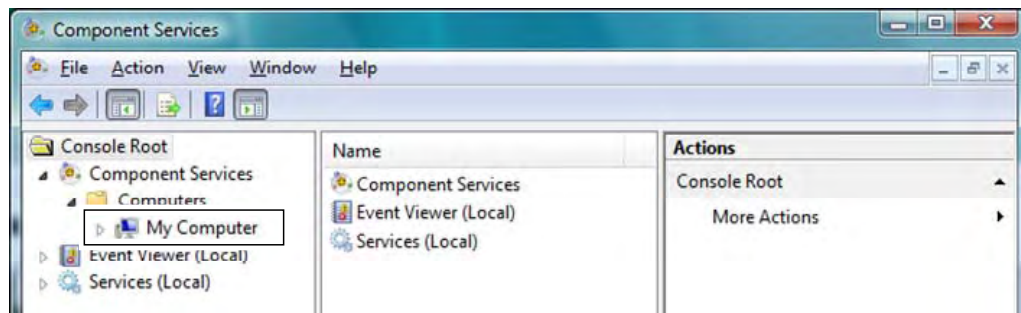
2

[For Windows Vista]

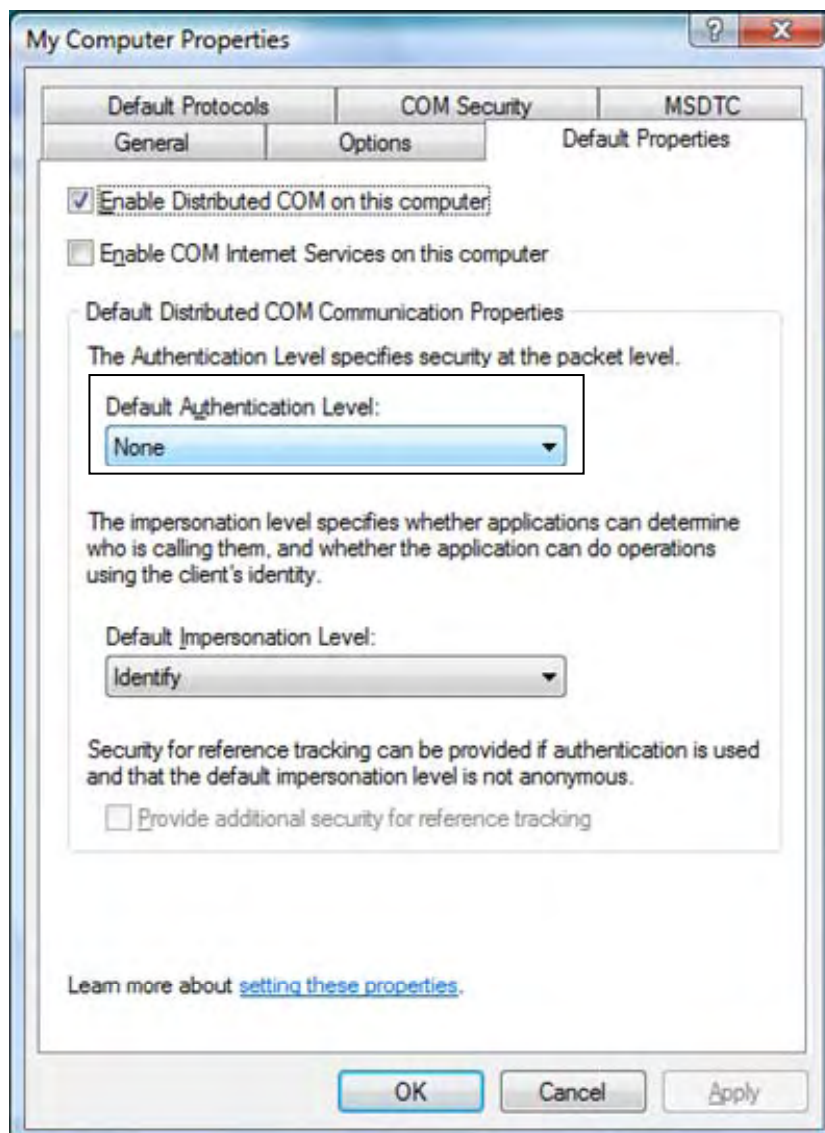
- From the Start menu, enter the "dcomcnfg" in [Start Search] box.



- Right-click [My Computer], and select [Properties].

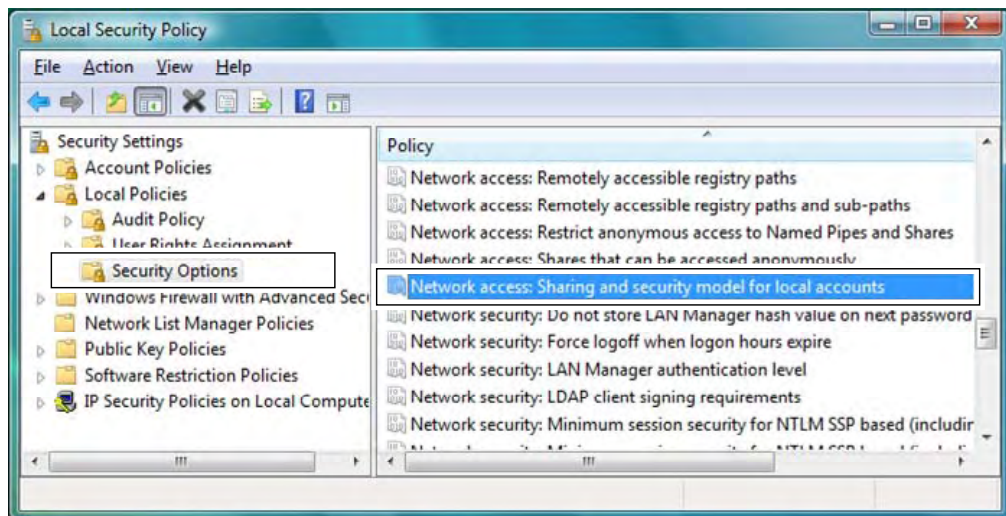


- From [My Computer Properties], select the [Default Properties] tab.
- From [Default Authentication Level], select [None] and click the OK button.



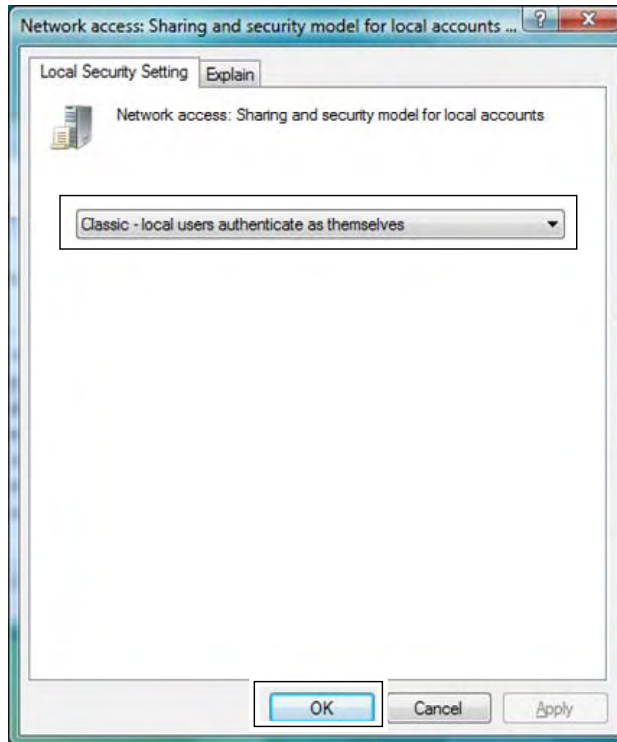
- Perform the [Authentication Level Setting] action only when starting the Engineering Tool on the client PC for the first time. No additional setting is required upon version upgrade.
- From the Start menu, open [Control Panel] and run [Administrative Tools] -> [Local Security Policy].
- From [Security Options], right-click [Network Access: Sharing and security model for local accounts], and select [Properties].

2



- Select [Classic: local users authenticate as themselves], and click the OK button.

2



2.2.3 Step 3: Running the V-Tool with the user authority (C/S)

This section describes how to restrict the rights of the users who start the V-Tool to the "User" rights for security reasons.

If the rights of all the users who start the V-Tool are set to the "Administrator" rights, this setting is not required. Proceed to the next step.

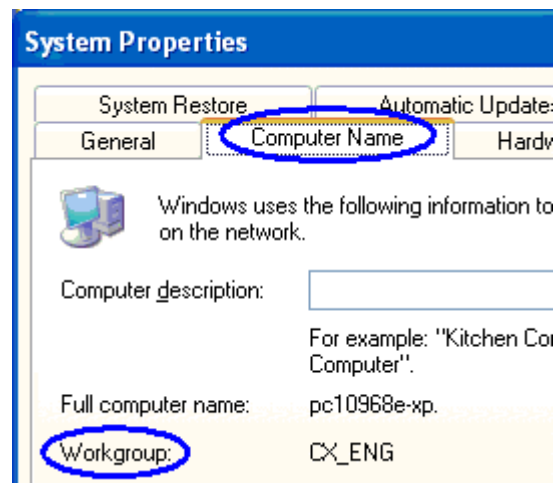
2

■ Identifying the LAN configuration

The setting method is different depending on the configuration of the LAN to which the PC is connected; [Workgroup] or [Domain]. Identify the LAN configuration in the following steps.

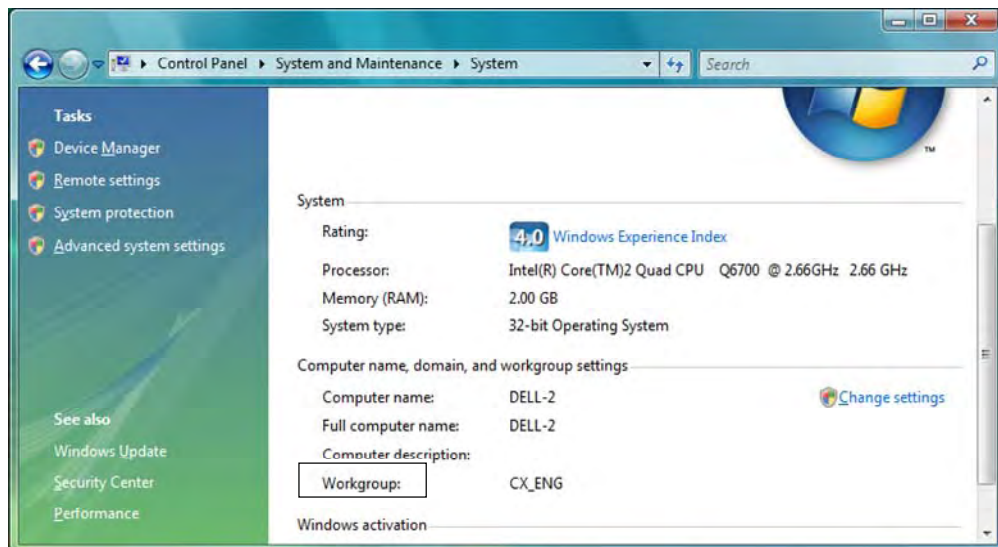
[For WindowsXP]

- From the menu, select [Start] -> [Control Panel] -> [System].
From the [System Properties] dialog, select the [Computer Name] tab.
The LAN configuration is displayed under [Full Computer Name].

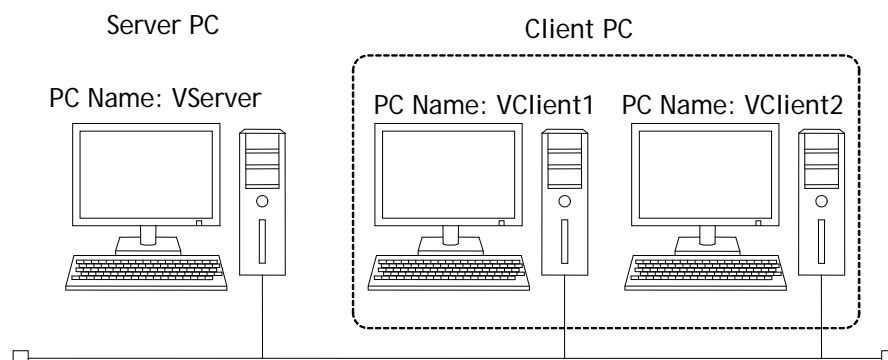


[For Windows Vista]

- From the menu, select [Start] -> [Control Panel] -> [System and Maintenance] -> [System].
LAN environment (Workgroup or Domain) is displayed under “Computer name, domain, and workgroup settings” [Computer description] under the window.



● Outline of Workgroup

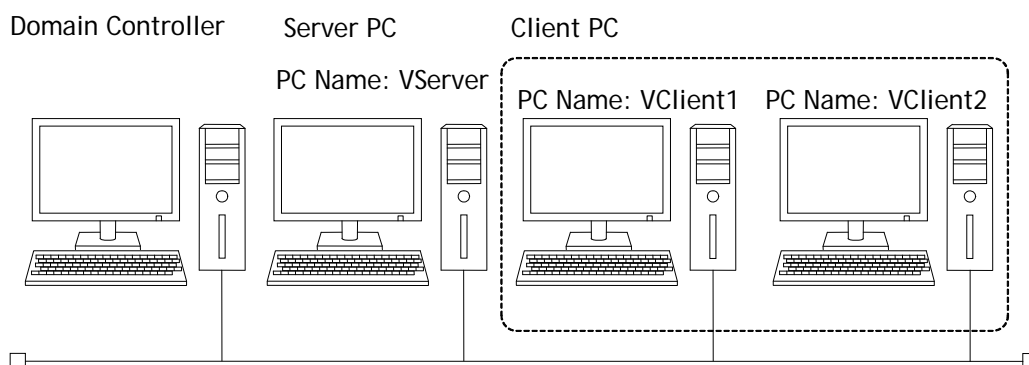


Setting target	Description
Server PC	<ol style="list-style-type: none"> ① Adding users with the user authority Add the users who use the V-Tool. ② Creating the user group Manage the users using the V-Tool as the [VToolUsers] user group. ③ Setting the rights to use the V-Tool Allow only the users who belong to the [VToolUsers] user group to use the service program of the V-Tool. ④ Setting the access rights of folders Add the access rights of the [VToolUsers] user group to the folders used by the V-Tool program. ⑤ Restarting the server PC Restart the PC to make the setting effective.
Client PC	<ol style="list-style-type: none"> ① Adding users with the user authority Add the users who use the V-Tool. ② Setting the access rights of folders Add the access rights of the [VToolUsers] user group to the folders used by the V-Tool program.

◇ Remark

- For detailed actions, refer to "For Workgroup".

● Outline of Domain



Setting target	Description
Domain controller	<ul style="list-style-type: none"> ① Adding users with the user authority Add the users who use the V-Tool. ② Creating the user group Manage the users using the V-Tool as the [VToolUsers] user group.
Server PC	<ul style="list-style-type: none"> ① Setting the rights to use the V-Tool Allow only the users who belong to the [VToolUsers] user group to use the service program of the nVTool. ② Setting the access rights of folders Add the access rights of the [VToolUsers] user group to the folders used by the V-Tool program. ③ Restarting the server PC Restart the PC to make the setting effective.
Client PC	<ul style="list-style-type: none"> ① Setting the access rights of folders Add the access rights of the [VToolUsers] user group to the folders used by the V-Tool program.

◇ Remark

- For detailed actions, refer to "For Domain".

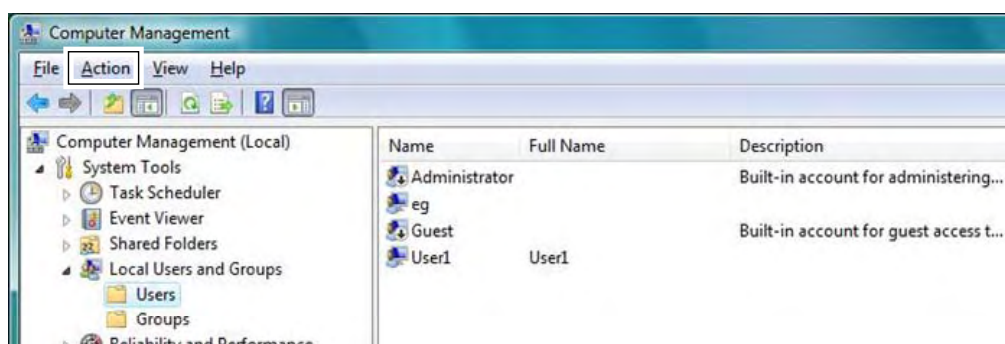
[For Workgroup]

If the configuration of the LAN to which the PC is connected is [Domain], refer to "For Domain".

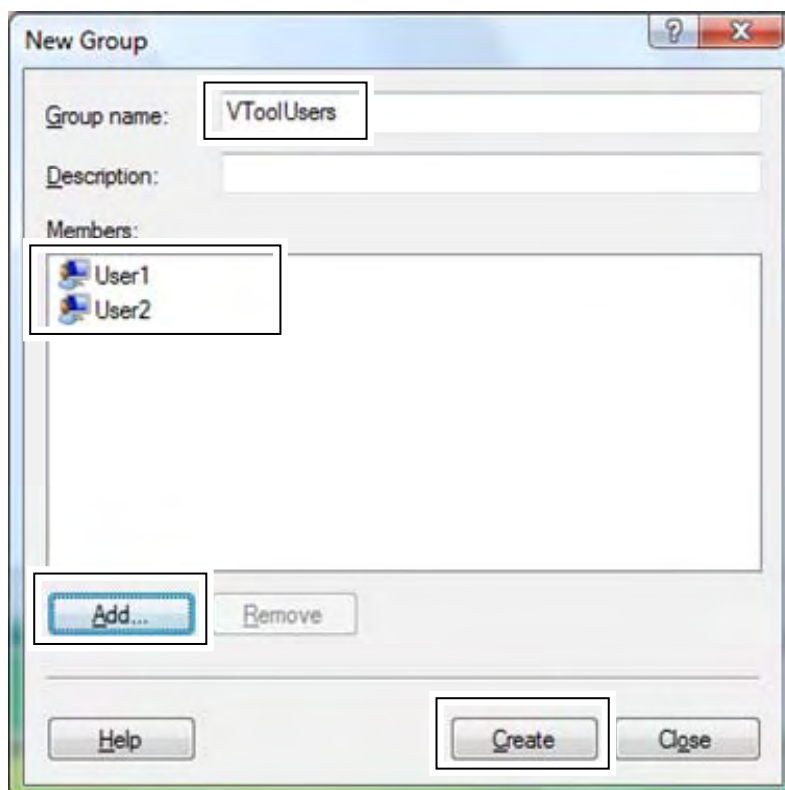
■ Setting the server PC

Perform this action on the PC on which the V-Tool server was set up after logging on with the administrator authority of the PC.

- Adding users with the user authority
 - Add all the users who use the V-Tool from the server PC or client PC. Perform the following for each type of the operating system. To add two or more users, repeat the action.
 - From the Start menu, run [Control Panel] -> [Administrative Tools] -> [Computer Management].
 - From the tree, select [Computer Management (Local)] -> [System Tools] -> [Local Users and Groups] -> [Users], and run [Action] -> [New User] from the menu.
 - Register the user name and password. The user name and password registered here will be used when logging onto Windows from the client PC, so do not lose them.
 - Check that the group to which the users belong is set to [Users].
 - Clear the [User must change password at next logon] check box



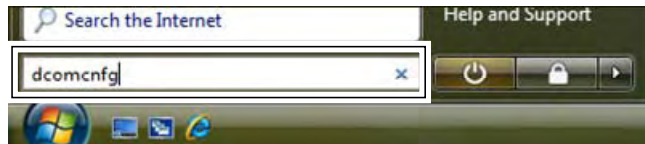
- Creating the user group
Manage the users using the V-Tool as the [VToolUsers] user group.
- From [Computer Management], select [Computer Management (Local)] -> [System Tools] -> [Local Users and Groups] -> [Groups], and run [Action] -> [New Groups] from the menu.
- From [New Group], enter [VToolUsers] in Group Name, and click the Add button.
- In [Select Users], click the Advanced button.
- In [Select Users], click the Find Now button.
- Select [Administrator] from the list, and click the OK button.
- Select a user who uses the V-Tool from the list, and click the OK button. Repeat this action to add all the users who use the V-Tool.
- In [New Group], click the Create button to close the dialog.



- Setting the rights to use the V-Tool

Allow only the users who belong to the [VToolUsers] user group to use the service program of the V-Tool.

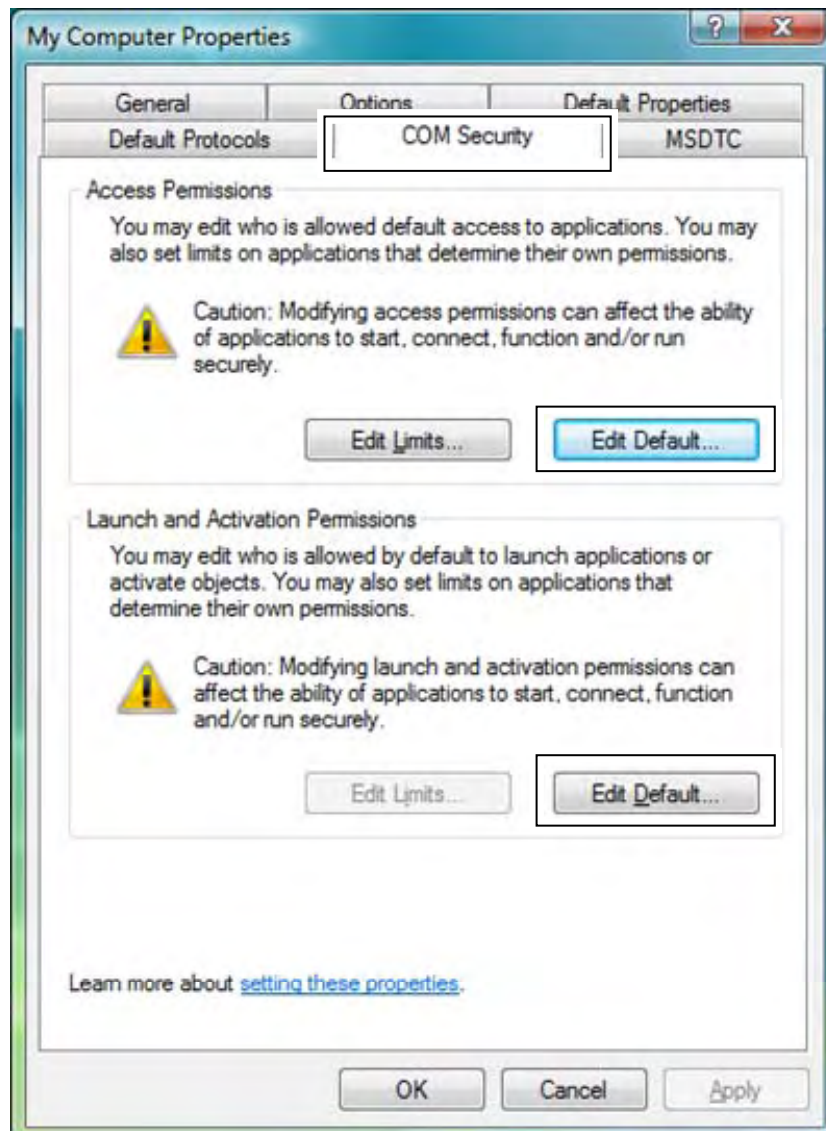
- From the Start menu, enter the "dcomcnfg" in [Start Search] box.



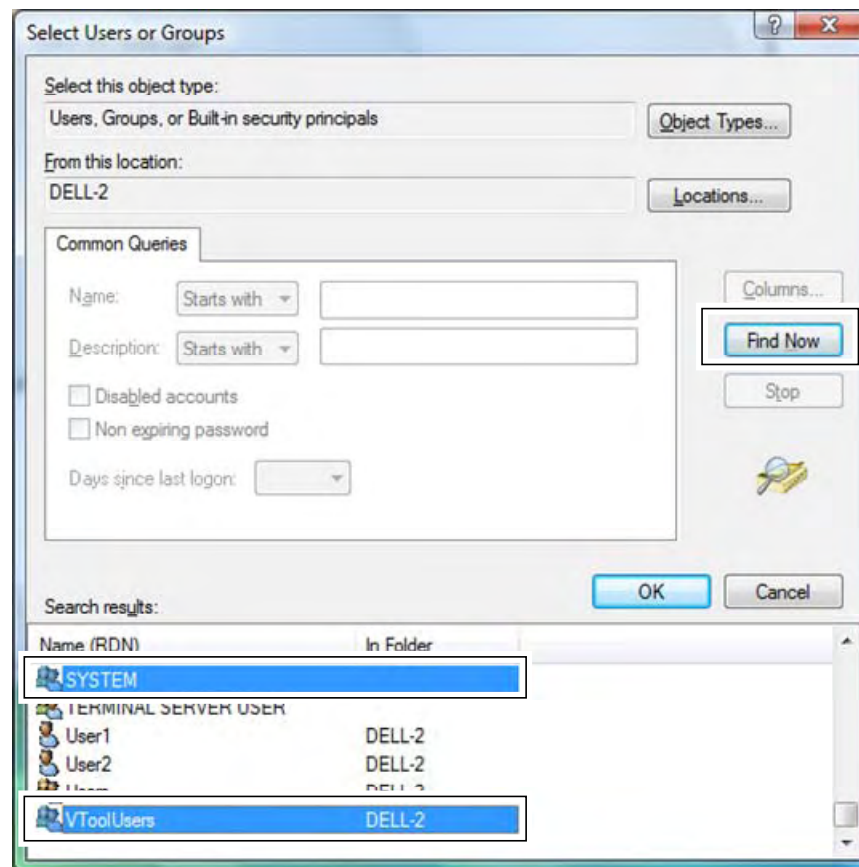
◇ **Remark**

- In case of Windows XP: From the Start menu, open [Control Panel] and run [Administrative Tools] -> [Component Service].

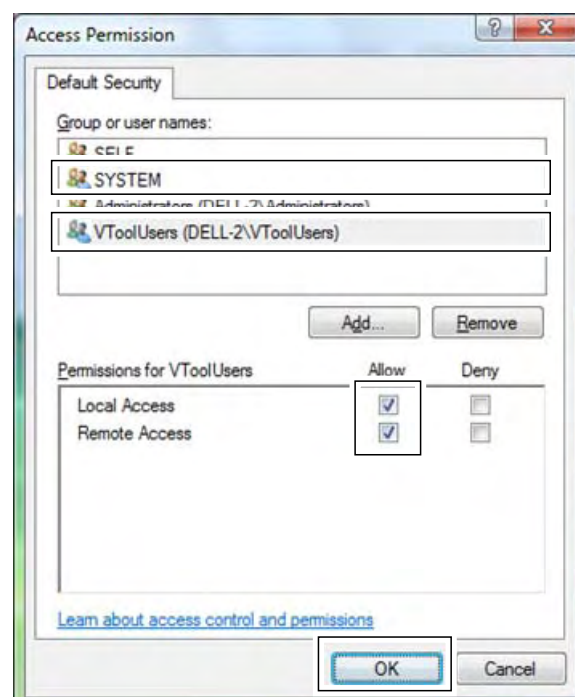
- From the tree, select [Console Root] -> [Component Services] -> [Computers] -> [My Computer], and select [Action] -> [Properties] from the menu.
- From [My Computer Properties], select the [COM Security] tab.



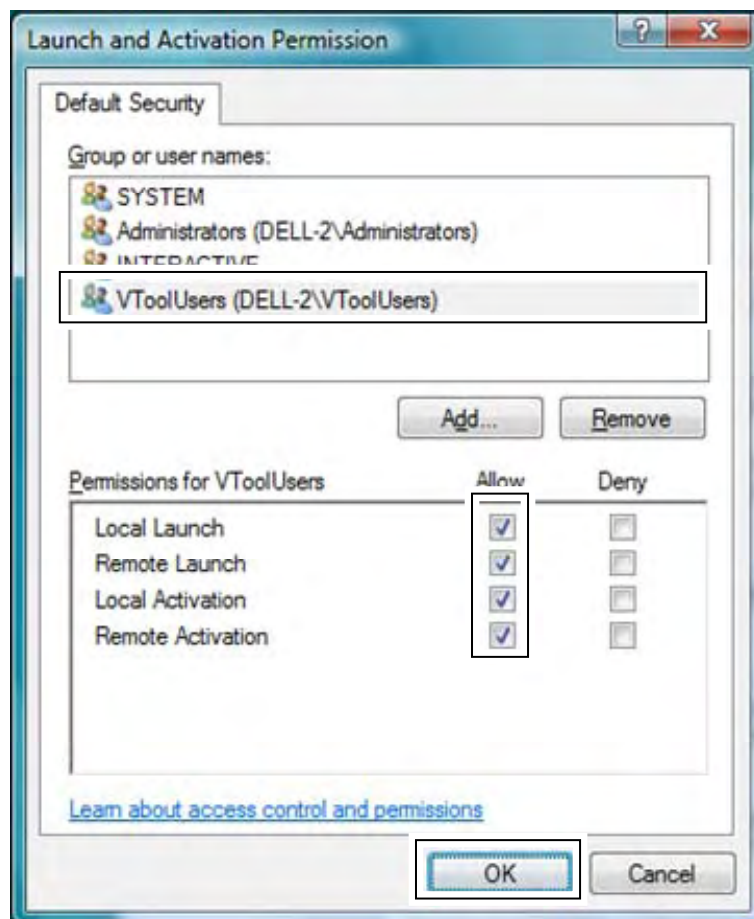
- Setting the "Access Permission".
- From [Access Permission], click the Edit Default button.
- From [Access Permission], click the Add button.
- From [Select Users or Groups], click the Advanced button.
- From [Select Users or Groups], click the Find Now button.



- From [Select Users or Groups], select [SYSTEM] and [VToolUsers], and click the OK button.
- Click the OK button to close the [Select Users or Groups] dialog.



- Click [Allow] of [Local Access] and [Remote Access].
- Click the OK button to close the [Access Permission] dialog.
- Setting the “Launch and Activation Permissions”.
- From [Launch and Activation Permission] of [COM security], click the Edit Default button.
- Add [SYSTEM] and [VToolUsers] to the launch permission in the same procedure as "Setting the access permission."
- Click the OK button to close [My Computer Properties].
- Close the component service screen.

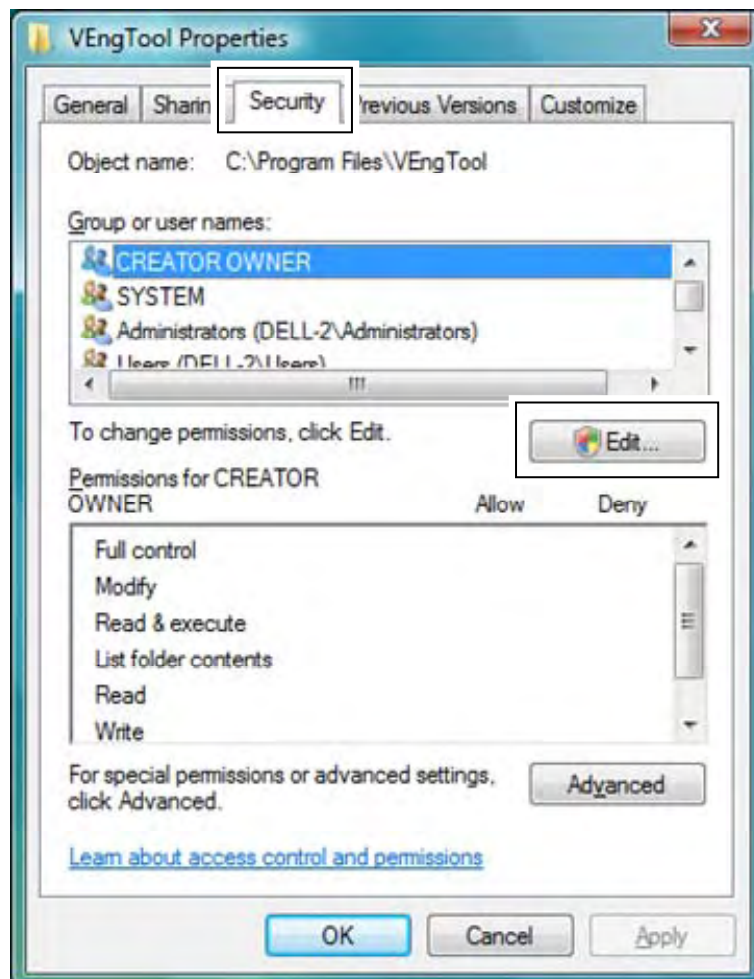


- Setting the access rights of folders
Add the access rights of the [VToolUsers] user group to the folders used by the V-Tool program.

No	Folder that V-Tool uses.	Remark
1	C:\Program Files\VEngTool	Default folder of V-Tool.
2	C:\Windows	System folder of OS.
3	C:\UserData	Unique.

◇ Remark

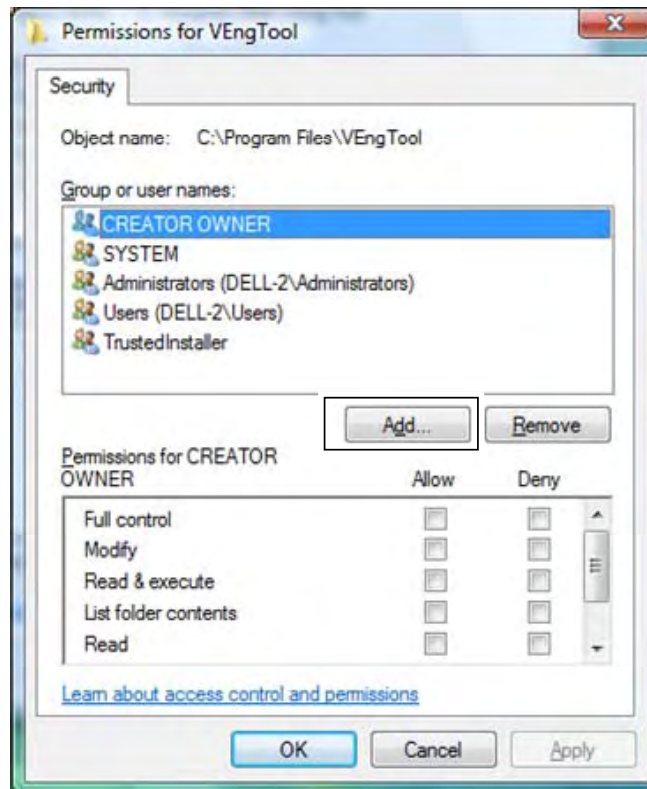
- Change the domain name and folder name according to the setting of the PC.
- Start Explorer, and select the "C:/Program Files/VEngTool" folder from the tree.
- From the menu, select [File] -> [Properties].
- Select the [Security] tab.



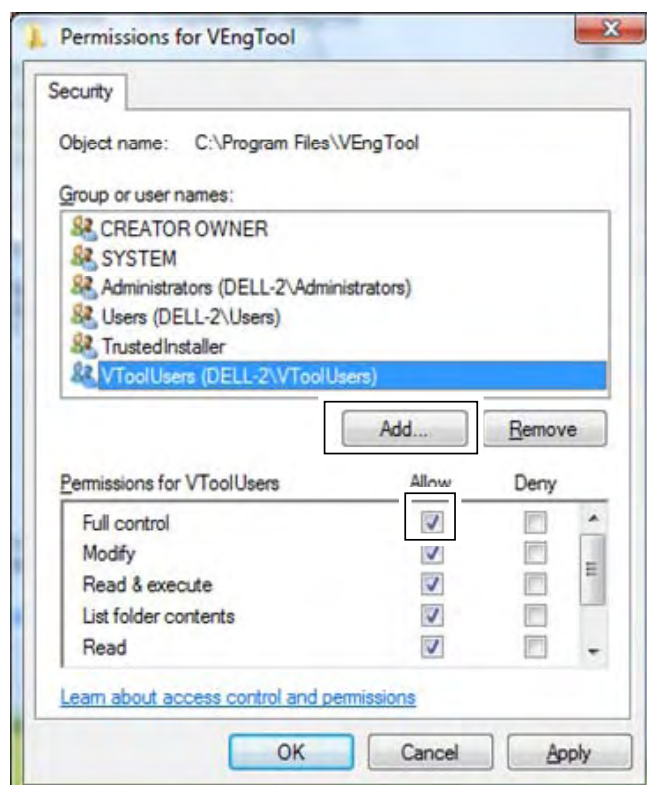
- Click the [Edit] button, and add the "V-ToolUsers" group.

◇ Remark

- Because Windows XP doesn't have the edit button and screen in the figure below, the add button is clicked.



Click the Add button to add the [VToolUsers] group.
In [Permissions for VToolUsers], select the [Full control] check box.



Click the OK button to close [VEngTool Properties].

Windows XP: Set the access rights of this folder to the following folder.

Windows Vista: The setting is unnecessary.

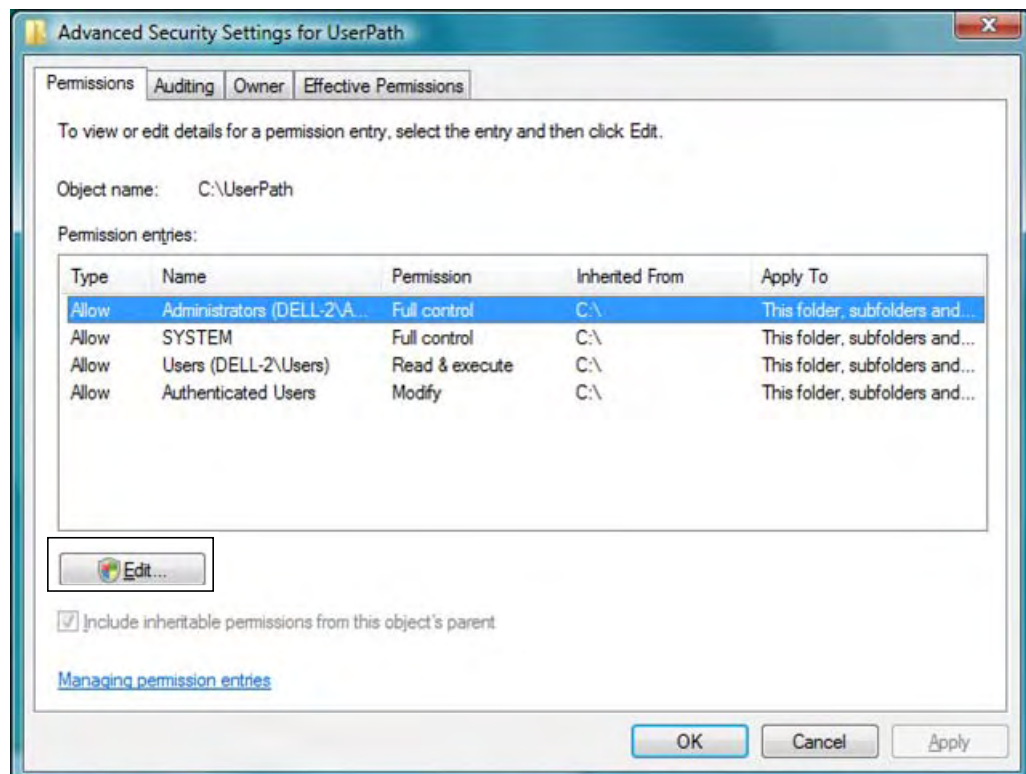
No	Folder name	Access right
1	C:/Windows	Full control

From Explorer, select the user product path folder, "C:/V2UserPath".

From the menu, select [File] -> [Properties].

Select the [Security] tab, and click Advanced button.

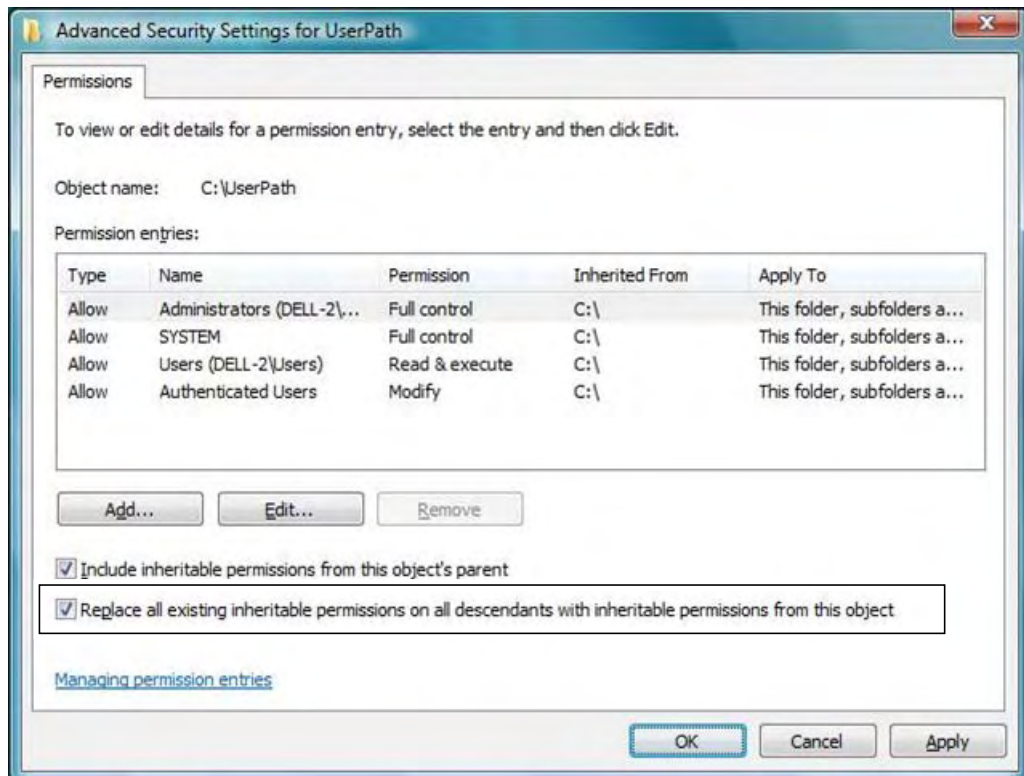
Click Edit button.



Click the Add button to add the [VToolUsers] group.

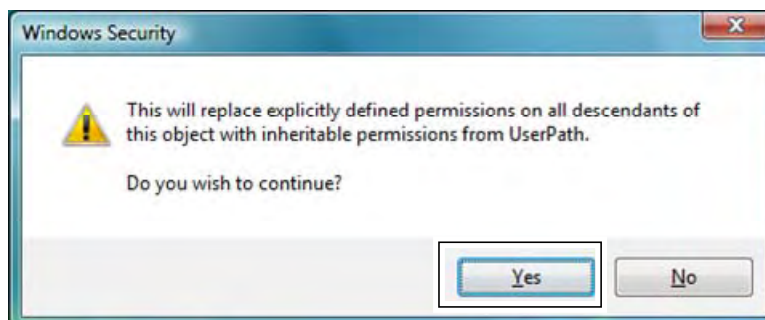
In [Access Permission of V-ToolUsers], select the [Full control] check box.

Click the Advanced button.

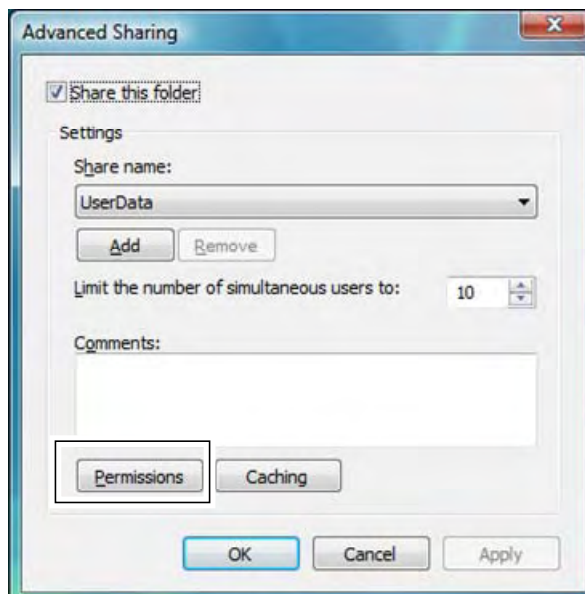
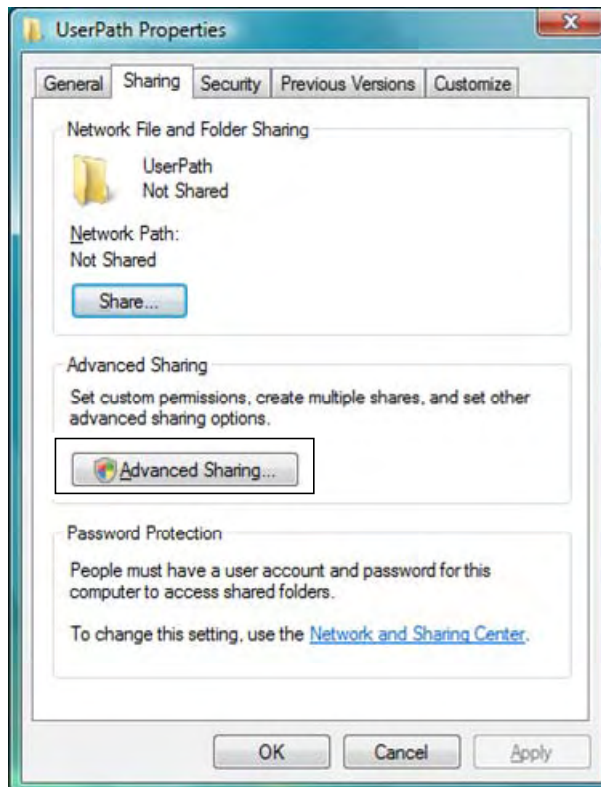


Select [Replace all existing inheritable permissions on all descendants with inheritable permissions from this object].

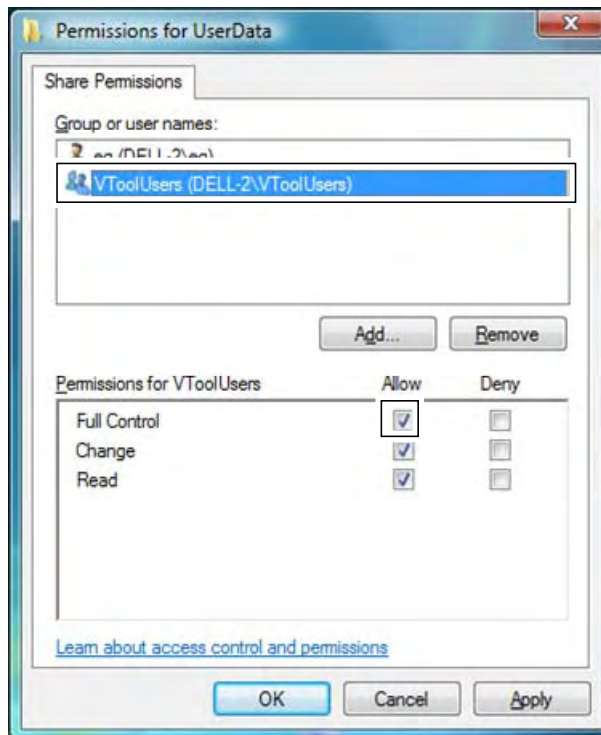
Click Yes button.



Select the [Sharing] tab, and click the Advance Sharing button.



Click the Add button to add the [VToolUsers] group, and set the access permission to [Full control].



Click the OK button to close the dialog.

- Restarting the server PC
Restart the PC to make the setting effective.

■ Setting the client PC

If client PC is Windows Vista, this action is unnecessary.

- Adding users with the user authority
Add the users to use the V-Tool from the client PC currently used.
- Select one user from the users who belongs to the [VToolUsers] group registered in "Adding users with the user authority". Enter and add the same name and password as the user.
The action method varies depending on the type of the operating system. Refer to "Adding users with the user authority".

- Setting the access rights of folders

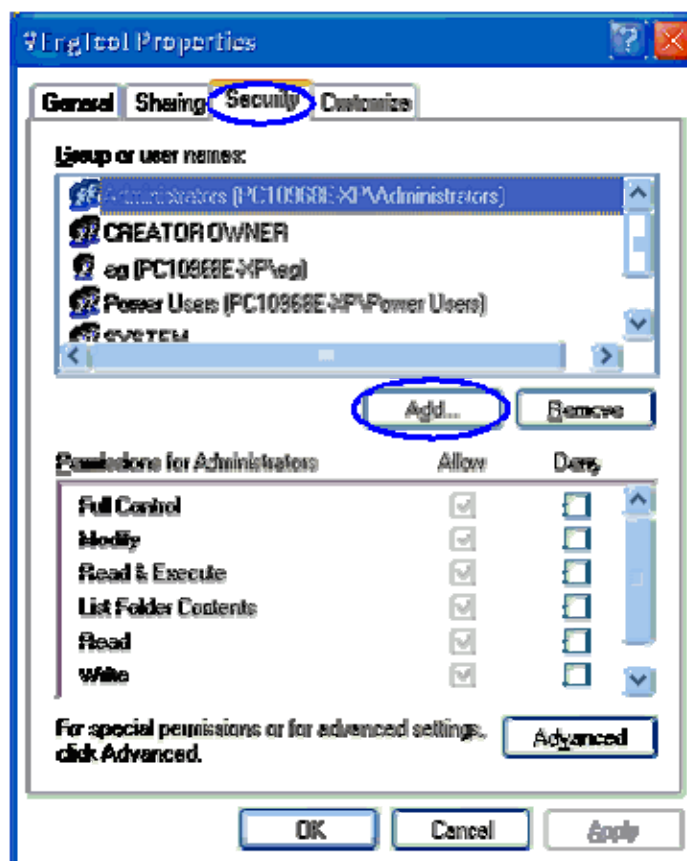
Add the access rights of the [VToolUsers] user group to the folders used by the V-Tool program.

Perform the following for each type of the operating system. Change the domain name and folder name according to the setting of the PC.

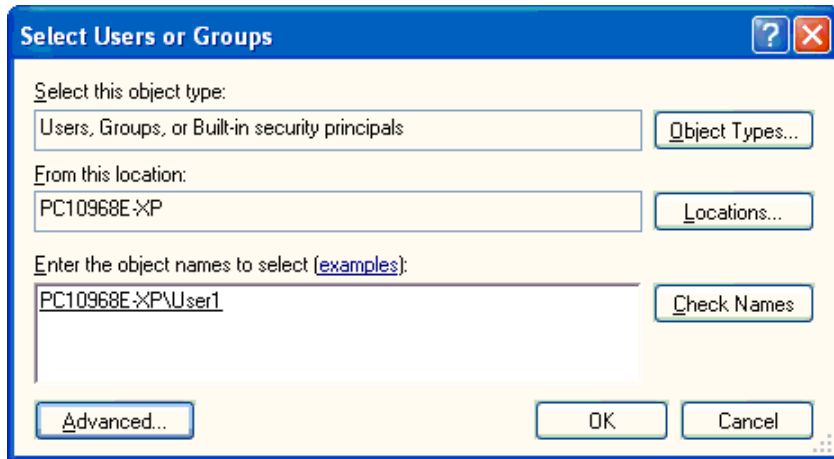
Start Explorer, and select the "C:¥Program Files¥VEngTool" folder from the tree.

From the menu, select [File] -> [Properties].

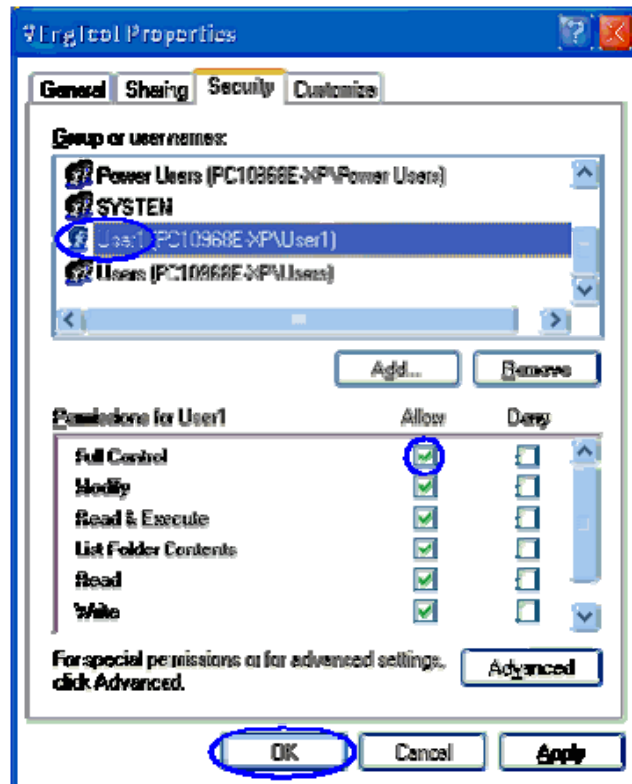
Select the [Security] tab, and click the Add button.



In [Select Users or Groups], add the users who use the V-Tool on this PC from the users added in "Setting the server PC (workgroup)" (page 57).



In [Permissions for User1], select the [Full Control] check box.



Click the OK button to close [VEngTool's Properties].

Set the access rights of this folder to the following folder.

No	Folder name	Access right
1	C:\¥Windows	Full control

[For Domain]

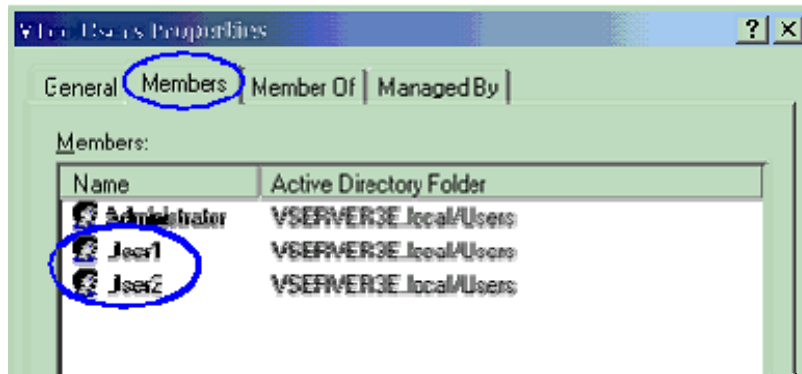
If the configuration of the LAN to which the PC is connected is [Workgroup], refer to "For Workgroup" (page 57).

2**■ Setting the domain controller**

Perform this action after consulting with the administrator of the domain to which the server and client of the V-Tool belong. Perform this action on the domain controller after logging on with the administrator authority of the domain.

- Adding users with the user authority
 - Add all the users who use the V-Tool from the server PC or client PC. Perform the following for each type of the operating system. To add two or more users, repeat the action.
 - From the Start menu, run [Management Tool] -> [ActiveDirectory Users and Computers].
 - From [Tree], select [Users] under the domain, and run [Action] -> [New] -> [Users] from the menu.
 - Add the users who use the V-Tool.
 - Check that the group to which the users belong is set to [Domain Users].
 - The user name and password registered here will be used when logging onto Windows from the client PC, so do not lose them.
 - Clear the [The user needs password change upon next logon] check box.
- Creating the user group
 - Manage the users using the V-Tool as the [VToolUsers] user group. Perform the following for each type of the operating system.
 - In [ActiveDirectory Users and Computers], select [Users] under the domain in the tree, and run [Action] -> [New] -> [Groups] from the menu.
 - In the [New Object-Group] dialog, enter [VToolUsers] in Group Name. Select [Global] from [Group Scope]. Select [Security] from [Group Type].
 - Double-click [Administrator] in the right list in [ActiveDirectory Users and Computers]. Click the [Member] tab, and click the Add button.

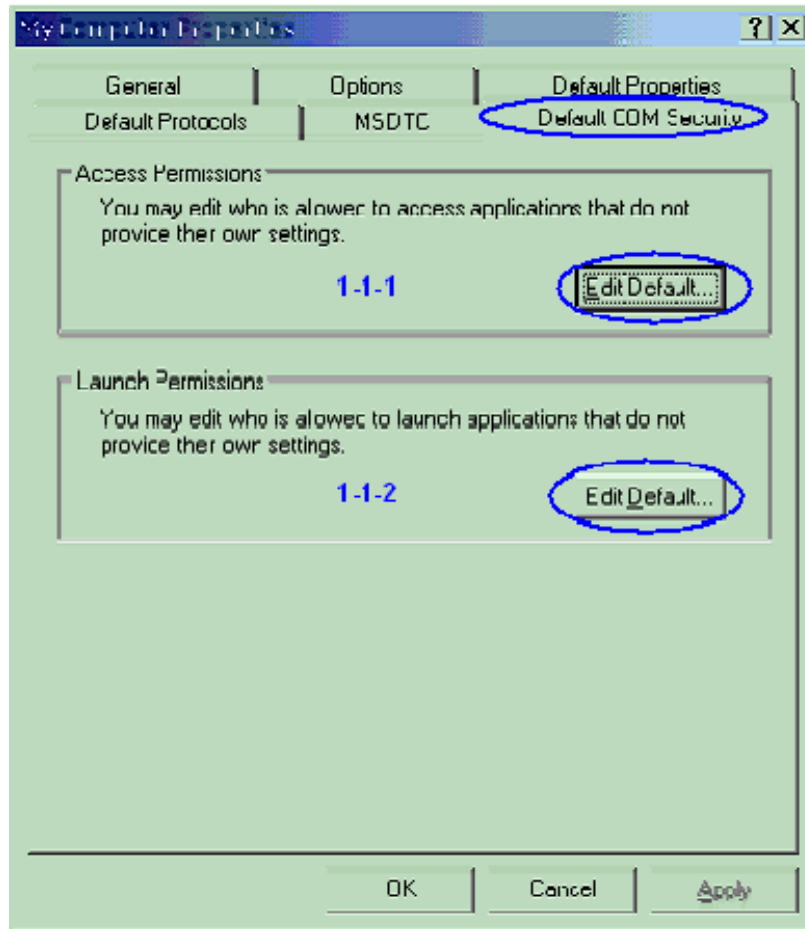
- Double-click [VToolUsers] in the right list in [ActiveDirectory Users and Computers]. Click the [Members] tab, and click the Add button.
- Add all the users who use the V-Tool, and click the OK button.



■ Setting the server PC

Perform this action on the PC on which the V-Tool server was set up after logging on with the administrator authority of the PC.

- Setting the authority to use the V-Tool
 - Allow only the users who belong to the [VToolUsers] user group to use the service program of the V-Tool. Perform the following for each type of the operating system.
- From the Start menu, open [Control Panel] and run [Management Tool] -> [Component Service].
- From the tree, select [Console Root] -> [Component Service] -> [Computer] -> [My Computer], and select [Action] -> [Properties] from the menu.
- From [My Computer Properties], select the [Default COM Security] tab.

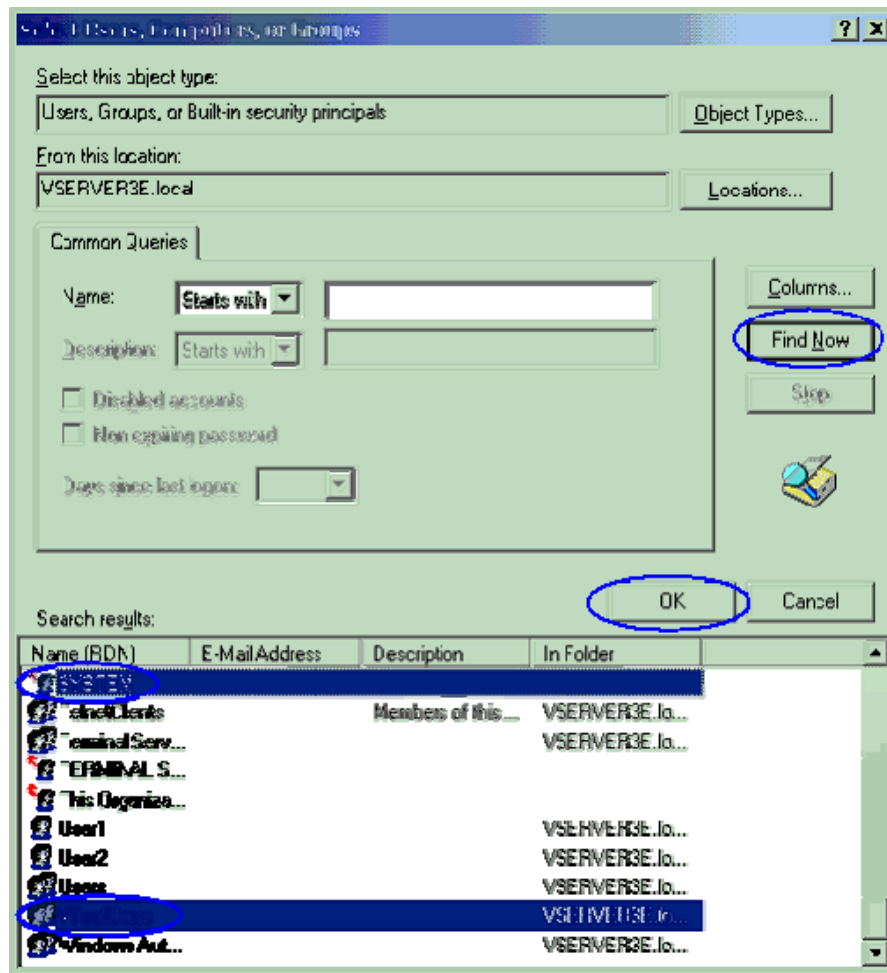


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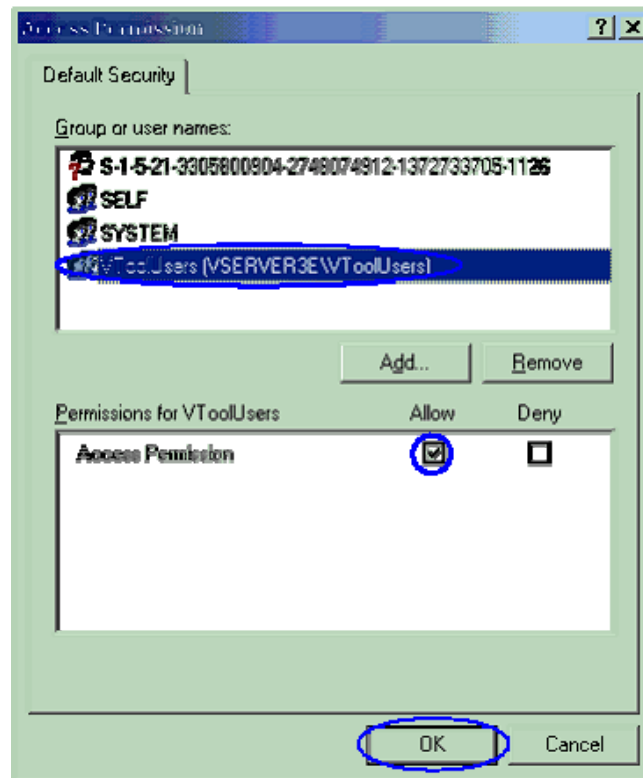
◆ **Note**

1-1-1 Setting access permission

- From [Access Permission], click the Edit Default button.
- From [Select Users or Groups], click the Advanced button.
- From [Select Users or Groups], click the Find Now button.



- From [Select Users or Groups], select [SYSTEM] and [VToolUsers], and click the OK button.
- Click the OK button to close the [Select Users or Groups] dialog.



- Click the OK button to close the [Access Permission] dialog.

◆ Note

1-1-2 Setting launch permission

- From [Launch Permission] of [Default COM security], click the Edit Default Value button.
- Add [SYSTEM] and [VToolUsers] to the launch permission in the same procedure as "Setting access permission."
- Click the OK button to close [My Computer Properties].
- Close the component service screen.

● Setting the access rights of folders

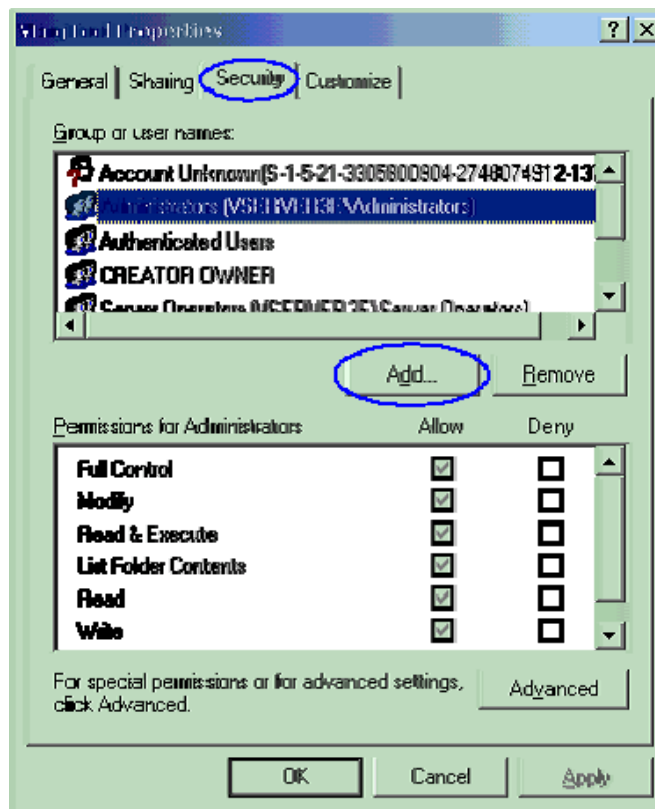
Add the access rights of the [VToolUsers] user group to the folders used by the V-Tool program. Perform the following for each type of the operating system.

Change the domain name and folder name according to the setting of the PC.

Start Explorer, and select the "C:¥Program Files¥VEngTool" folder from the tree.

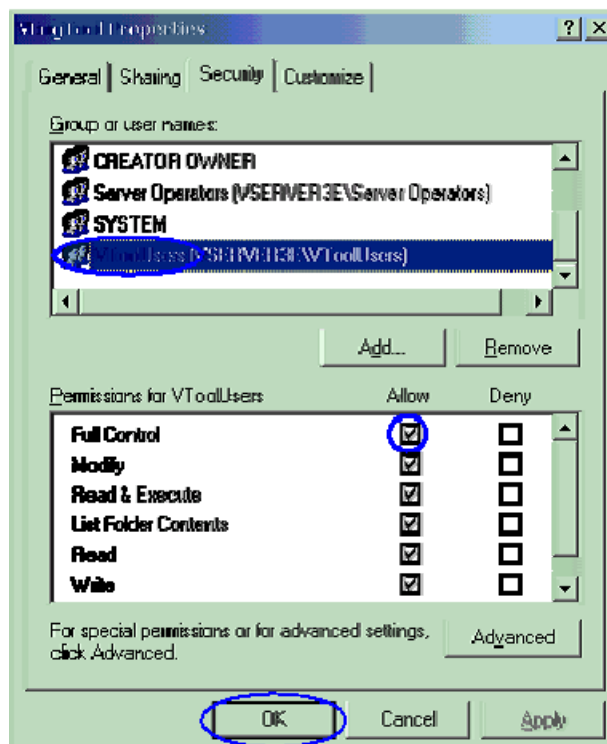
From the menu, select [File] -> [Properties].

Select the [Security] tab.



Click the Add button to add the [VToolUsers] group of the domain.

In [Access Permission for V-ToolUsers], select the [Full Control] check box.



Click the OK button to close [VEngTool's Properties].

Set the access rights of this folder to the following folder.

No	Folder name	Access right
1	C:¥Windows	Full controll

From Explorer, select the user product path folder, "C:¥V2UserPath."

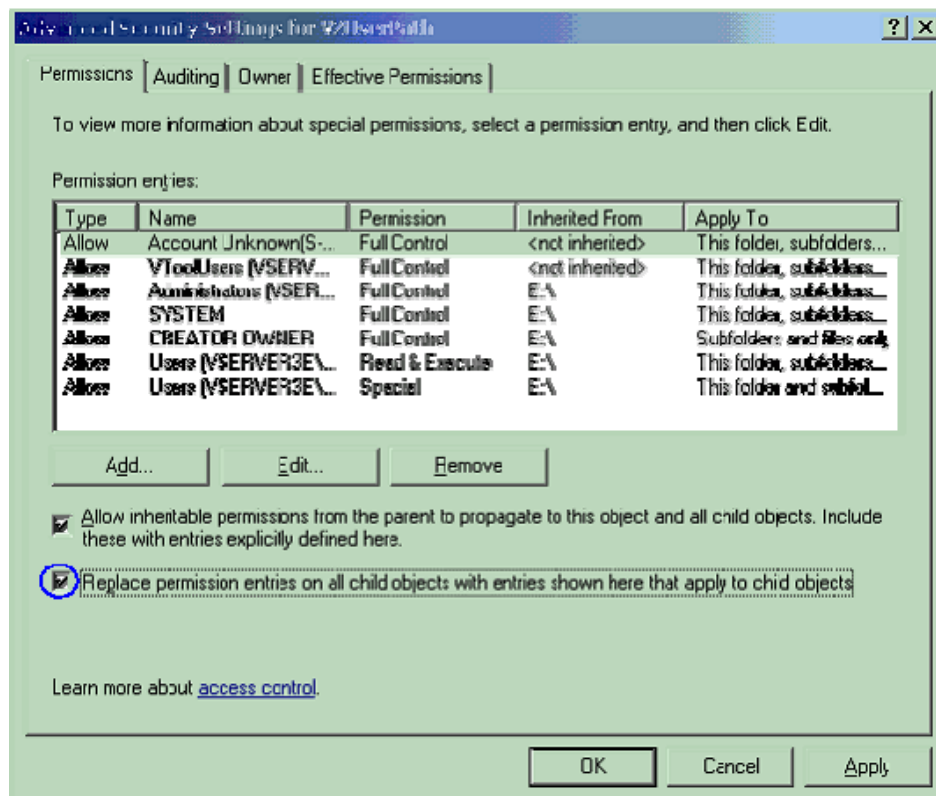
From the menu, select [File] -> [Properties].

Select the [Security] tab.

Click the Add button to add the [VToolUsers] group of the domain.

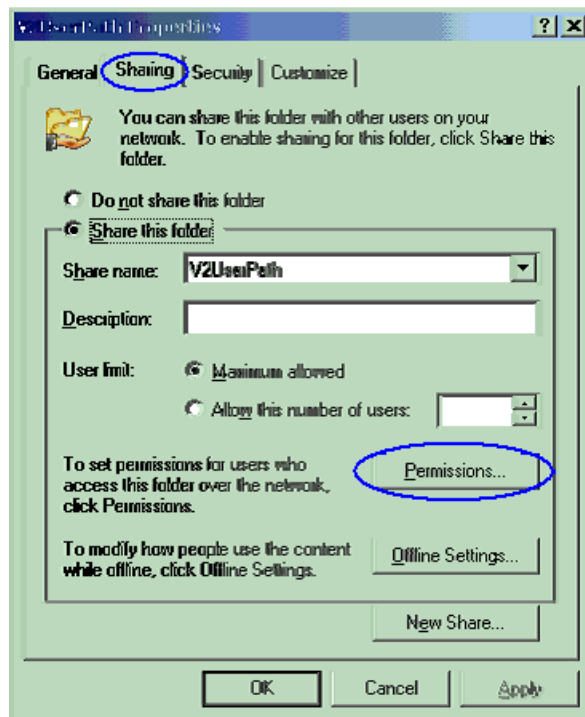
In [Access Permission of V-ToolUsers], select the [Full Control] check box.

Click the Advanced button.



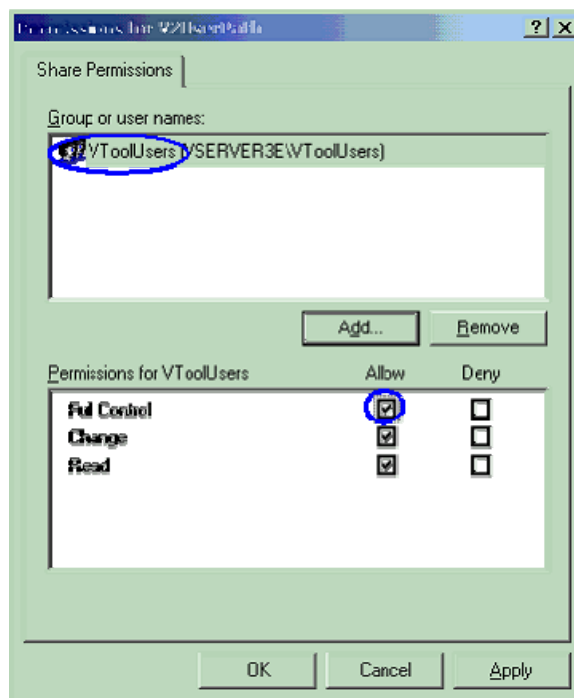
Select [Replace permission entries on all child objects with entries shown here that apply to child objects].

Select the [Sharing] tab, and click the Access Permission button.



From [Group name or user name], select "Everyone" and delete it.

Click the Add button to add the [VToolUsers] group, and set the access permission to [Full Control].



Click the OK button to close the dialog.

- Restarting the server PC
Restart the PC to make the setting effective.

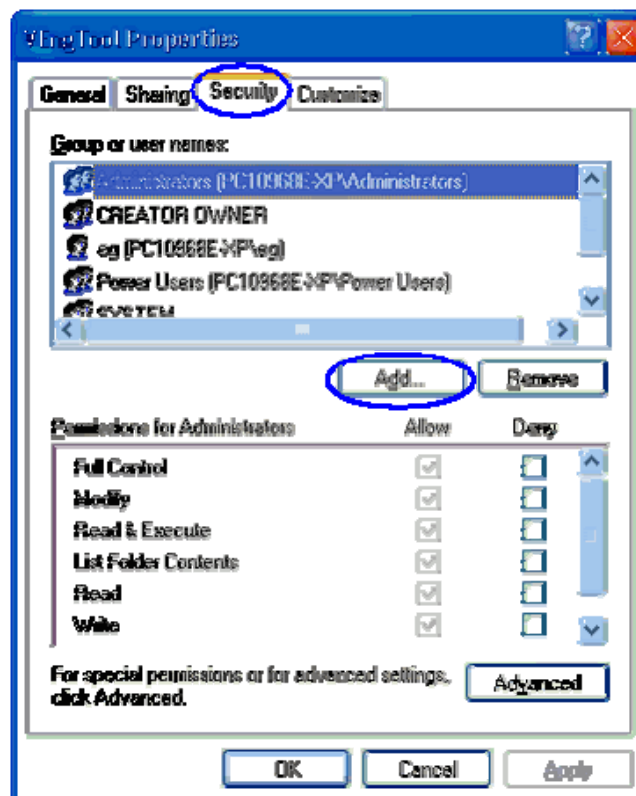
■ Setting the client PC

- Setting the access rights of folders
Add the access rights of the [VToolUsers] user group to the folders used by the V-Tool program.
Perform the following for each type of the operating system. Change the domain name and folder name according to the setting of the PC.

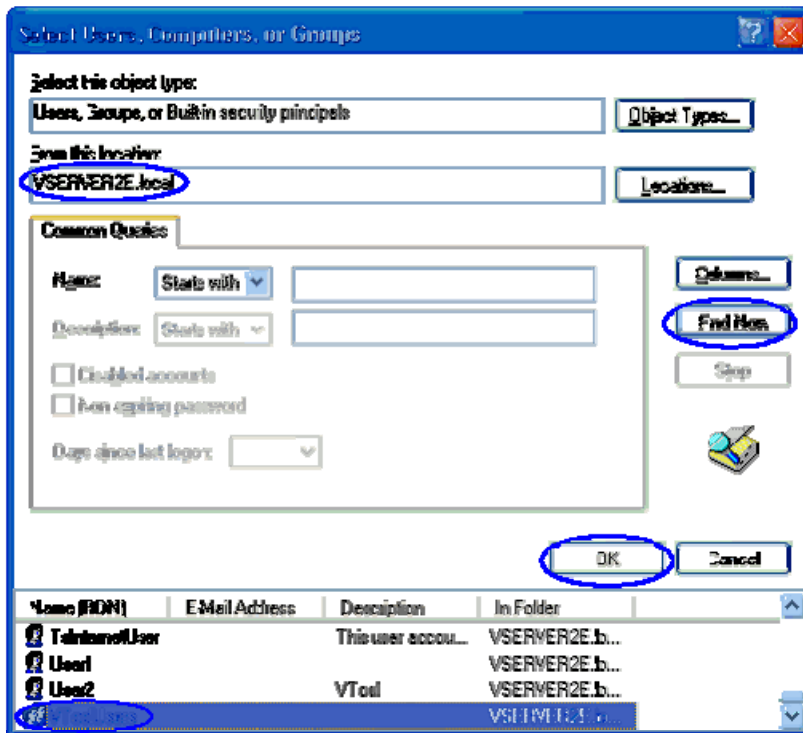
Start Explorer, and select the "C:¥Program Files¥VEngTool" folder from the tree.

From the menu, select [File] -> [Properties].

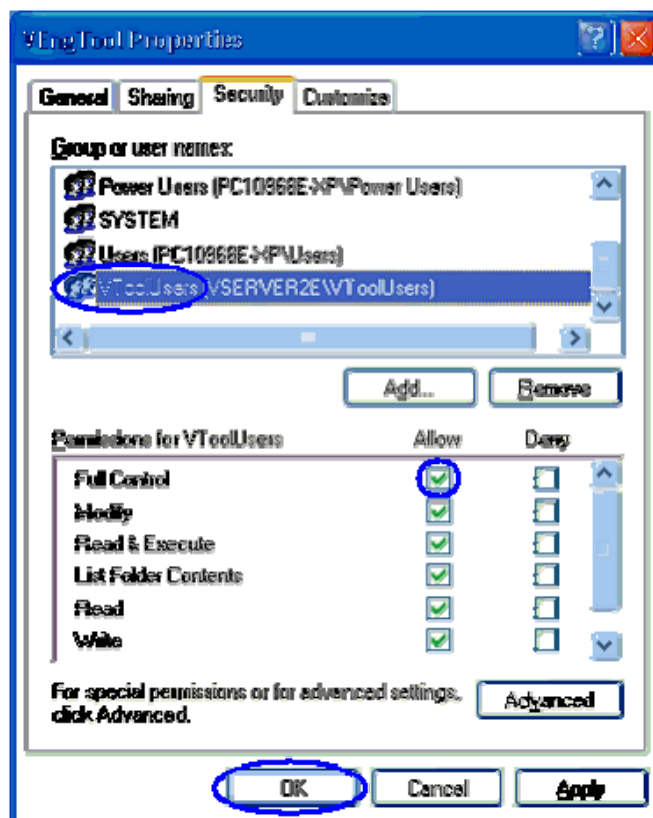
Select the [Security] tab, and click the Add button.



In [Location] of the [Select Users, Computers, or Groups] dialog, check that the domain is selected. Select and add [VToolUsers] from the list.



In [Permissions for VToolUsers], select the [Full Control] check box.



Click the OK button to close [VEngTool's Properties].

Set the access rights of this folder to the following folder.

No	Folder name	Access right
1	C:¥Windows	Full control

2.2.4 Step 4: Registering users of the V-Tool (C/S)

The tool administrator registers the users who can use the V-Tool. The tool administrator must do it on the server PC.

Perform them with the administrator authority.

◇ Remark

- The following part describes the user registration method for V2.6 or later of the V-Tool. For the registration method for the V-Tool before V2.6, refer to the online manual installed along with the V-Tool.

■ Login security

To use the V-Tool, available users must be registered in advance. Users include the managers and members. One set includes one manager and the members. Multiple sets of users can be registered and managed. Only the manager can change user registration of one's members. Access levels (viewable/editable) of the hardware configuration can be assigned to the registered members.

◇ Remark

- The user names and passwords registered in the V-Tool before V2.6 are not inherited to the V2.6 or later of the V-Tool. To restrict users using V2.6 or later of the V-Tool, register the users again.

■ Access levels of the hardware configuration

The access levels of the hardware configuration include the following.

- Viewable : Cannot change the hardware configuration.
- Editable : Can change the hardware configuration.

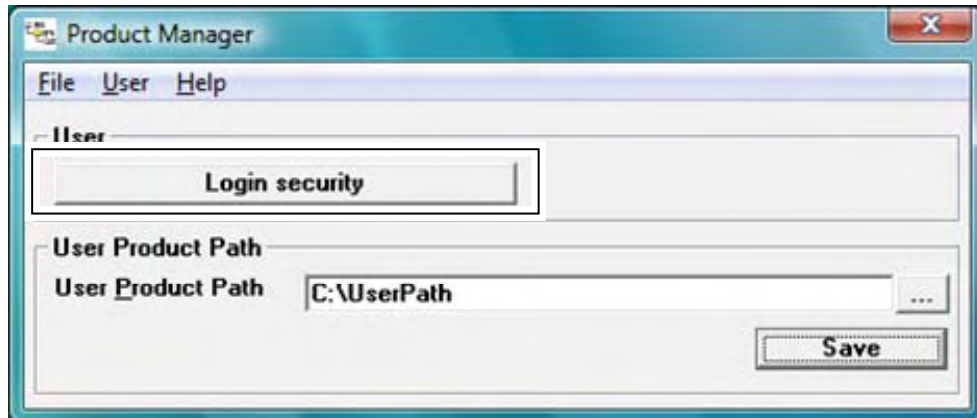
Action	System	Network	Network module	Station	Unit	Module
Add	■	■	■	■	■	■
Rename	■	—	—	■	■	■
Delete	■	■	■	■	■	■
Copy	■	—	—	—	—	—
Import	■	■	—	■	—	—
Export	■	■	—	■	—	—

◇ Remark

- Users with the access level of "Viewable" cannot perform the actions with the "■" symbol in the table.

■ Registering users

- From the Start menu, run [Programs] -> [V series Engineering Tool 4 (for management)] -> [Product Manager].



Click the Login Security button. If no user is registered, the confirmation dialog is displayed. Click the Yes button. In this case, the Add Manager dialog is displayed first.



<Registering a new manager>

- From the menu, run [Manager] -> [Add].

- Enter the user name and password of the new manager, and click the OK button.

◇ Remark

- A user name can have 1 to 32 characters (32 half-sized characters, or 16 full-sized characters).
- A password can have 1 to 32 characters (full-sized characters cannot be used).
- Characters such as ?, “, /, ¥, <, >, *, |, :, ;, (space), (tab), or (return) cannot be used.

<Changing the manager>

- In the login security screen, enter the user name and password of the manager, and click the OK button.
- From the menu, run [Manager] -> [Change].
- Enter the user name and password of the new manager, and click the OK button.

<Registering a new member>

- From the menu, run [Member] -> [Add].

- Enter the user name and password.
- Set the access level (Viewable/Editable) of the hardware configuration.
- Click the OK button.

<Changing a member>

- Select a user name, and run [Member] -> [Change] from the menu.
- Enter the user name and password.
- Set the access level (viewable/editable) of the hardware configuration.
- Click the OK button.

<Deleting a member>

- Select a user name, and run [Member] -> [Delete] from the menu.

<Deleting security>

- Enter the user name and password of the manager, and click the OK button.
- From the menu, run [Manager] -> [Delete Security]. Only the registration for the manager and the members managed by the manager is deleted.

◇ **Remark**

-
- User name matching is not case-sensitive.
 - Password matching is case-sensitive.
 - Do not lose the user name and password.

■ **Setting the user product path**

The user product path is a folder to store user data created with the V-Tool. Create the folder using Explorer in advance.

Two or more user product paths can be created. The tool administrator can specify one of them.

- In the Product Manager screen, click "." next to the User Product Path text box, and specify a folder in the dialog.
- When the setting is complete, click the Save button to save the settings.

■ **Setting the shared product path**

The shared product path is a path to identify the user product path of the server PC from the client PCs.

Set the shared product path in the following steps.

- In Explorer, select the user product folder.
- From the menu, run [File] -> [Properties].
- From [Properties], select the [Sharing] tab, and select [Share this folder].
- Click the Access Permission button to open [Access Permission].

- From [Access Permission], select [Full Control].
- Click the OK button to close [Access Permission].
- Click the OK button to close [Properties].
- In the Product Manager screen, click ".." next to the Shared Product Path text box, and specify the product path in the dialog.
- Click the Save button to save the settings.

2.2.5 Step 5: Logging into the V-Tool (C/S)

The V-Tool is made available only for the users registered in Step 4. This section describes how to log into the V-Tool.

It can be done either on the client PC or server PC.

■ Logging into Windows

If the setting of Step 3 has not been performed, log onto Windows as an "Administrator."

If the setting of Step 3 has been performed, log onto Windows as a user with the user authority added in Step 3.

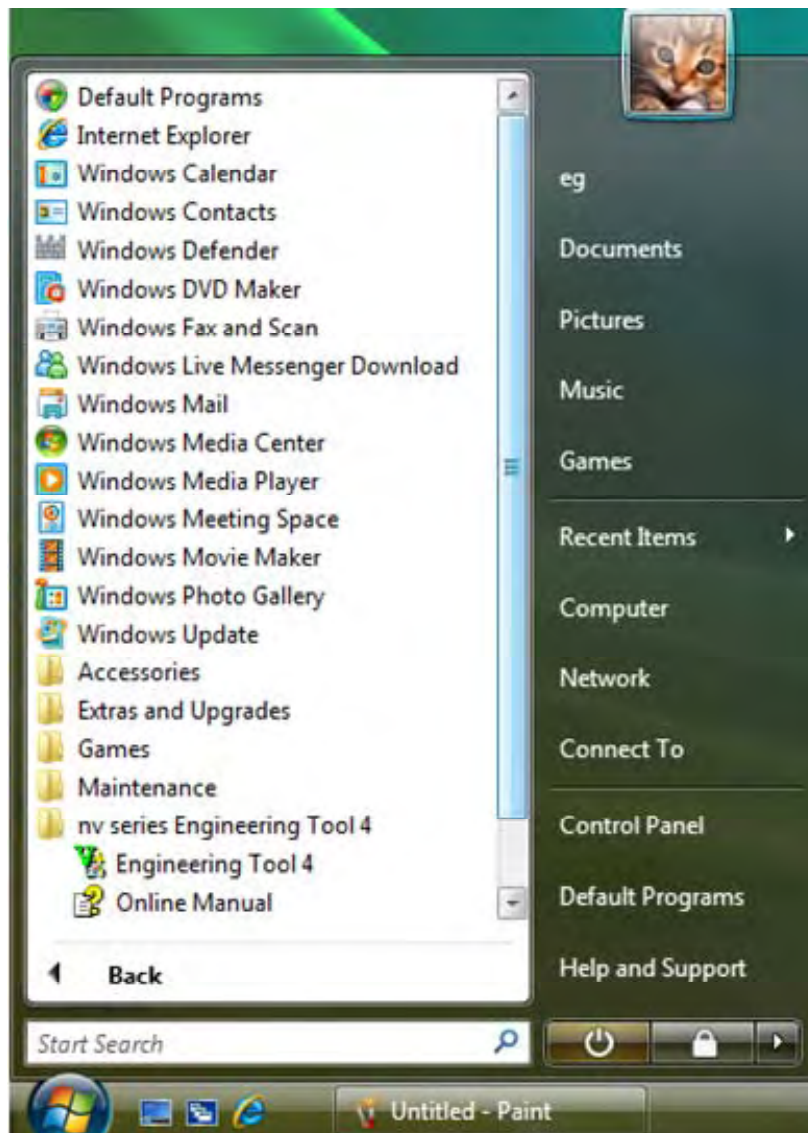
■ Logging into the V-Tool

There are two kinds of methods of starting V-Tool.

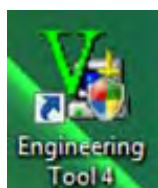
- From the Start menu, select [All Programs] -> [nv series Engineering Tool 4] -> [Engineering Tool 4].

◇ Remark

- The name and the screen image are different in the each kind of OS and version of V-Tool.



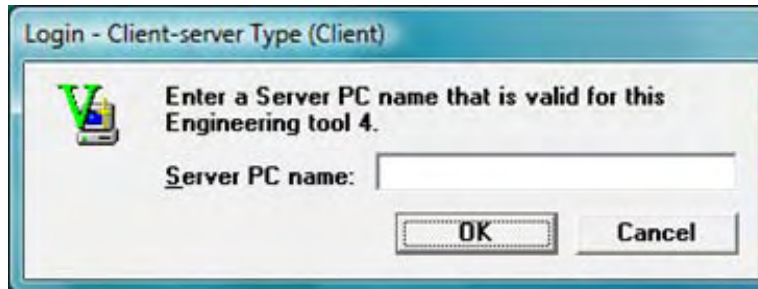
- Double click icon < Engineering Tool 4 on desktop.



◇ Remark

- The version display of < Engineering Tool 4> is different in each version of V-Tool.

- On the client PC, the server PC name input dialog is displayed. Enter the name of the server PC in [Server PC Name], and click the OK button (this dialog is not displayed on the server PC).



- Enter the user name and password provided by the tool administrator.



■ When the tool is started for the first time after setup, or if product registration has not been completed

◇ Remark

- The following instruction applies to V2.6 or later of the V-Tool.

Product registration of the V-Tool is complete when the product registration password is entered.

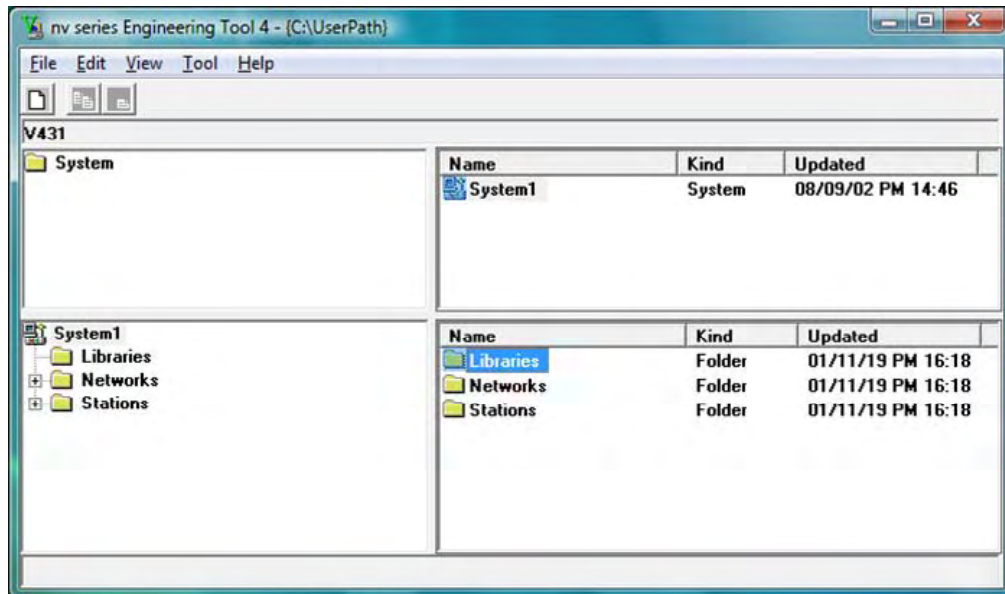
When the V-Tool starts up, the following password input screen is displayed. Provide the manufacturer with the protection ID displayed on the password input screen to obtain the corresponding password, and enter it in the Password field.



If the password is correct, the product registration completion message is displayed, and [Product Tree] is displayed.

◇ Remark

- Passwords are case-sensitive.
- The password input screen is displayed when the V-Tool starts up until product registration is completed.
- If the Cancel button is clicked without any password entered, the V-Tool can still be used within 14 days after you start using it.
- If no password is entered, the V-Tool becomes unavailable after 14 days.
- If the related registries are changed, the V-Tool may become unavailable.



2

■ Starting the V-Tool after product registration has been completed

In the Login screen, enter the user name and password and click the OK button. [Product Tree] is displayed.

2.2.6 Step 6: Starting up and exiting from the V-Tool (C/S)

This section describes how to startup and exit from the functions and applications of the product tree, as well as how to exit from the V-Tool.

It can be done either on the client PC or server PC.

■ Setting communication parameters

The V-Tool and V series controller can be connected via RS-232C or Ethernet for download and online monitoring. Set the V-Tool communication parameters in [Tool] -> [Com.Para.Settings] from the menu.

■ Version information

- Select [Help] -> [Version Information] from the menu to check the version of the V-Tool. After setup or version upgrade, make sure that the desired version is displayed.

■ Starting up and exiting from the applications

- To start up an application, click the station or controller in [Product Tree], select [File] -> [Open] from the menu, and select the application from the displayed menu.
- To exit from the application, select [File] -> [Exit from {Application Name}] from the menu, or click the Close button.
- To exit from the V-Tool entirely (i.e. logging off), select [File] -> [Exit] from the menu of [Product Tree].

■ Shutting down the server PC

- Before shutting down or restarting the server PC, make sure to log off the V-Tool on all the client PCs.

2.2.7 Step 7: Starting up from the HMI (C/S)

Follow the instruction below only when starting up the Engineering Tool from the HMI.

The following action must be performed by a person with the "system administrator" authority.

2

■ Setting auto logon of the operating system

Log into Windows as an Administrator.

Set the explanation on the tip of here according to LAN environment of the computer (Workgroup and Domain).

[In case of Workgroup]

The User accounts screen is displayed.

<For Windows XP>

- From the menu, select [Start] -> [Run]. From the [Run] screen, enter "control userpasswords2" and click the OK button.

<For Windows Vista>

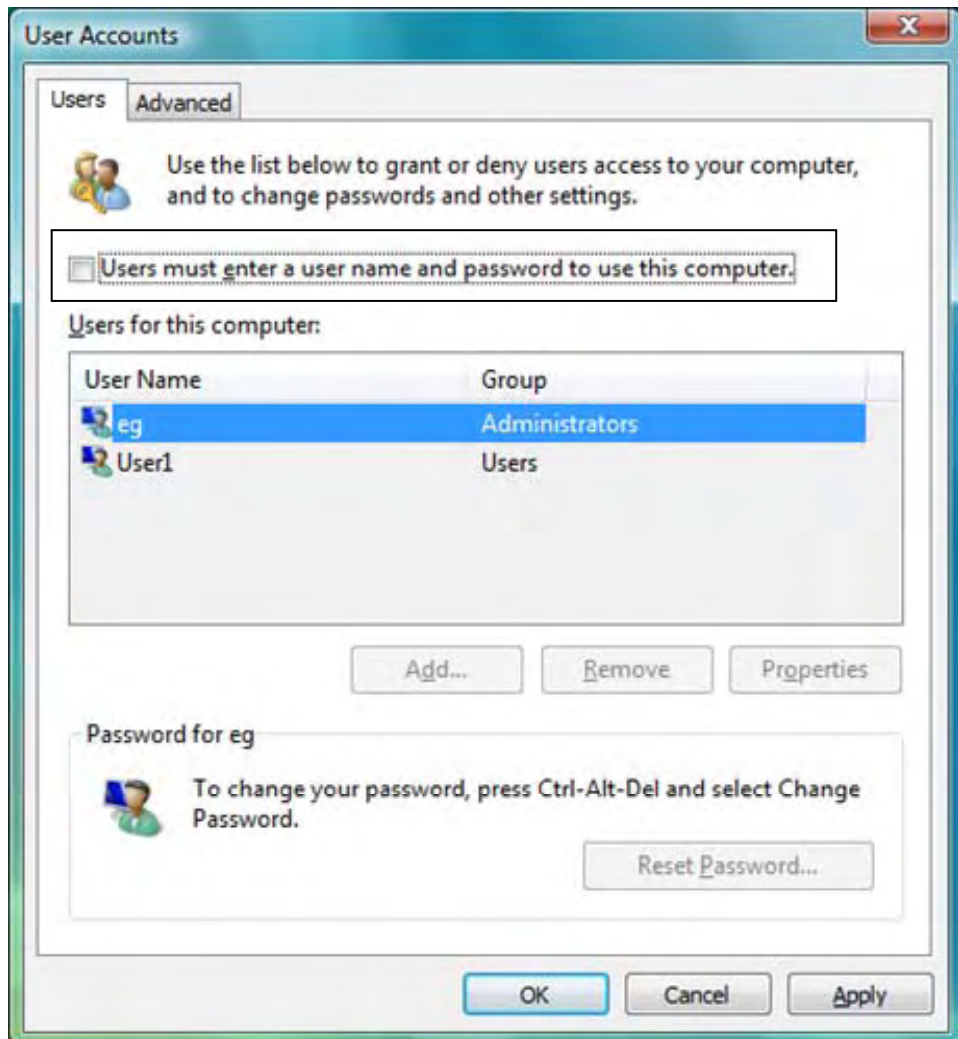
- The "control userpasswords2" is entering to the [Start Search] box of the start menu.



- The check box of [Users must enter a user name and password to use this computer] is turned off, and click OK button.

◇ Remark

- Displayed content and action are the same though the screen image is different in each OS.



[In case of Domain]

Because the computer exists on the domain, the user account is being managed by the network administrator. Confirm the method of automatic logon to the network administrator.

■ Setting auto startup of the Engineering Tool

To start up the Engineering Tool program after logging onto the operating system, perform the following setting.

- From the task bar, right-click [Start] from the menu, and select [Open-All Users].
- The Start menu window opens. Double-click [Programs], and then double-click [nv series Engineering Tool 4].
- Select the "Engineering Tool 4" shortcut icon, and select [Edit] -> [Copy] from the menu.
- From the task bar, right-click [Start] from the menu, and select [Open].
- The Start menu window opens. Double-click [Programs], and then double-click [Startup].
- Select [Edit] -> [Paste] from the menu to paste the "Engineering Tool 4" shortcut icon.

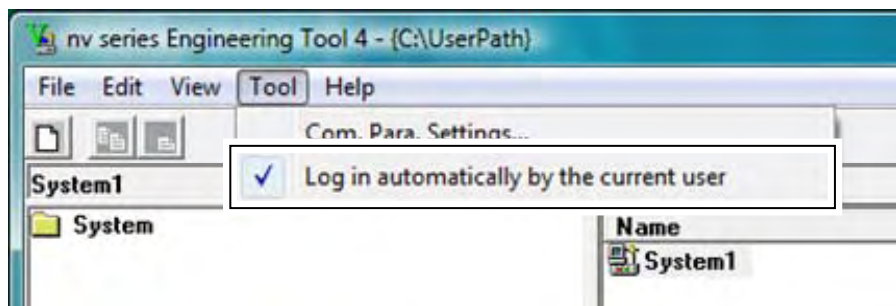
◇ Remark

- The display of the series name and the version of 'nv series Engineering Tool 4' and 'Engineering Tool 4' are different in each version of V-Tool.

■ Setting auto logon of the Engineering Tool

To skip the logon screen of the Engineering Tool, perform the following setting.

- Log into the Engineering Tool.
- From the product tree menu, select [Tool] -> [Log in automatically by the current user] to select it.



2

Chapter 3

Performing Version Upgrade of the nV-Tool

There are the standalone version and client-server version of the nV-Tool. This chapter describes how to perform version upgrade of them.

3.1 Standalone Version.....	158
3.2 Client-server Version	161

3.1 Standalone Version

If the nV-Tool has been set up in the PC, perform version upgrade of the nV-Tool in the following steps.

Perform them with the administrator authority.

- Backing up the user system
- Deleting the nV-Tool
- Setting up the nV-Tool

If you want to restore the lower revision of the nV-Tool for any reason, also refer to "Restoring the backup system."

■ Backing up the user system

When the nV-Tool is started after version upgrade, the data of the user system is also upgraded automatically. For example, in Ver2.6 or later, passwords are automatically added to the user system database for improved security. Therefore, if the previous version is restored after version upgrade of the nV-Tool, the database may become inaccessible and unavailable. To avoid such problems in version downgrade, make sure to back up the user system before version upgrade of the nV-Tool. There are the following 2 methods to back up the user system. Understand the advantages and disadvantages when performing them.

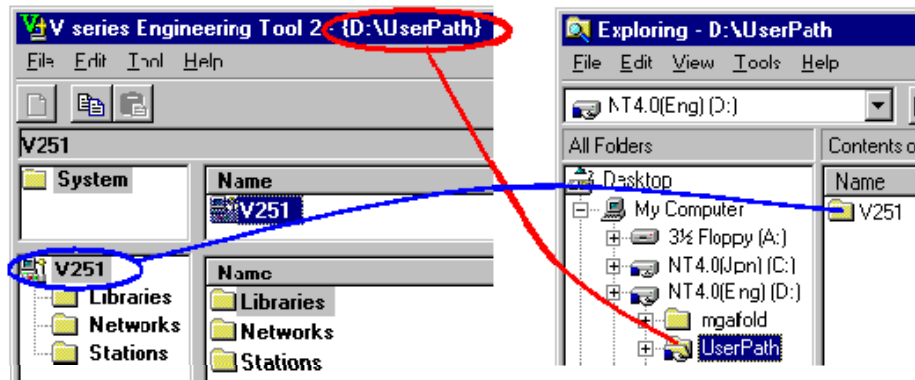
[1] Using system export of the nV-Tool

Each user system is included in one file. The file is compressed. This method takes longer than Method [2]. For the operation method, refer to "Executing import/export of the user system" in "Tool maintenance" of the Basic manual.

[2] Using Windows Explorer

Use Explorer to copy the user system folder. The file is not compressed. This method takes less than Method [1]. The operation method is as follows.

- Exit from the Engineering Tool.
- Start Explorer from the [Start] menu.
- Make sure that the destination drive device has sufficient free space.
- Using Explorer, search for the system folder. First, search for the folder of the same path as the path displayed in the title of the product tree, and search for the folder with the same name as the system name within the folder.



- In Explorer, select the system folder, and select [Edit] -> [Copy] from the menu.
- In Explorer, select the destination folder, and select [Edit] -> [Paste] from the menu.

■ Deleting the nV-Tool

Delete the existing nV-Tool by referring to "Chapter 4 Deleting the nV-Tool" in this manual.

■ Setting up the nV-Tool

Obtain a CD of the new nV-Tool, and perform only "Step2: Setting up the nV-Tool" in this manual.

■ Restoring the backup system

After version downgrade of the nV-Tool, restore the data of the user system in the following steps.

To avoid mixing with the existing system, create a new user product path and restore the data there.

[1] If the user system was backed up using system export of the nV-Tool

- Using Product Manager, set the new folder to the user product path.
- Start the nV-Tool and import the backup system.
For the operation method, refer to "Executing import/export of the user system" in "Tool maintenance" of the Basic manual.

[2] If the user system was backed up using Windows Explorer

- Using Product Manager, set the new folder to the user product path.

- Exit from the Engineering Tool.
- Start Explorer from the [Start] menu.
- Make sure that the destination drive device has sufficient free space.
- In Explorer, select the backup system folder, and select [Edit] -> [Copy] from the menu.
- In Explorer, select the user product path, and select [Edit] -> [Paste] from the menu.

3.2 Client-server Version

If the nV-Tool has been set up in the PC, perform version upgrade of the nV-Tool in the following steps.

Perform them with the administrator authority.

- Backing up the user system
- Deleting the nV-Tool
- Setting up the nV-Tool

If you want to restore the lower revision of the nV-Tool for any reason, also refer to "Restoring the backup system."

■ Backing up the user system

When the nV-Tool is started after version upgrade, the data of the user system is also upgraded automatically. For example, in Ver2.6 or later, passwords are automatically added to the user system database for improved security. Therefore, if the previous version is restored after version upgrade of the nV-Tool, the database may become inaccessible and unavailable. To avoid such problems in version downgrade, make sure to back up the user system before version upgrade of the nV-Tool. There are the following 2 methods to back up the user system. Understand the advantages and disadvantages when performing them.

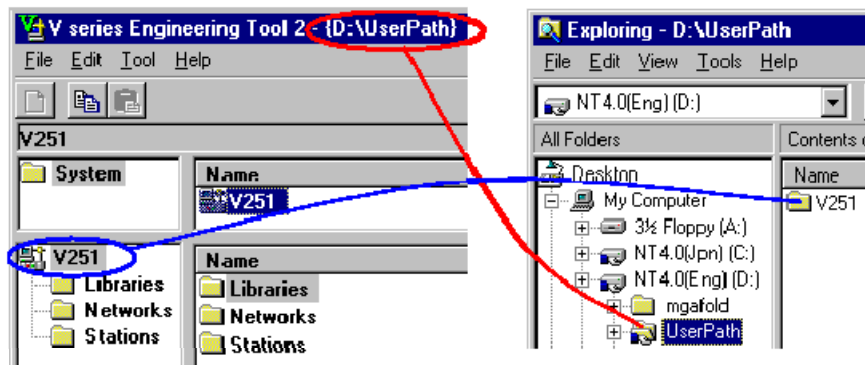
[1] Using system export of the nV-Tool

Each user system is included in one file. The file is compressed. This method takes longer than Method [2]. For the operation method, refer to "Executing import/export of the user system" in "Tool maintenance" of the Basic manual.

[2] Using Windows Explorer

Use Explorer to copy the user system folder. The file is not compressed. This method takes less than Method [1]. The operation method is as follows.

- Exit from the Engineering Tool in all the clients.
Perform the subsequent operations in the server PC.
- Start Explorer from the [Start] menu.
- Make sure that the destination drive device has sufficient free space.
- Using Explorer, search for the system folder. First, search for the folder of the same path as the path displayed in the title of the product tree, and search for the folder with the same name as the system name within the folder.



- In Explorer, select the system folder, and select [Edit] -> [Copy] from the menu.
- In Explorer, select the destination folder, and select [Edit] -> [Paste] from the menu.

■ Deleting the nV-Tool

Delete the existing nV-Tool by referring to "Chapter 4 Deleting the nV-Tool" in this manual.

■ Setting up the nV-Tool

- Obtain a CD of the new nV-Tool, and perform only "Step2: Setting up the nV-Tool" in this manual.

◇ Remark

- In the operation in "execution account setting," services requiring execution account setting may be changed. After version upgrade, make sure to check the settings.

■ Restoring the backup system

After version downgrade of the nV-Tool, restore the data of the user system in the following steps.

To avoid mixing with the existing system, create a new user product path and restore the data there.

[1] If the user system was backed up using system export of the nV-Tool

- Using Product Manager, set the new folder to the user product path.
- Start the nV-Tool and import the backup system.
For the operation method, refer to "Executing import/export of the user system" in "Tool maintenance" of the Basic manual.

[2] If the user system was backed up using Windows Explorer

- Exit from the Engineering Tool in all the clients.
Perform the subsequent operations in the server PC.
- Using Product Manager, set the new folder to the user product path.
- Start Explorer from the [Start] menu.
- Make sure that the destination drive device has sufficient free space.
- In Explorer, select the backup system folder, and select [Edit] -> [Copy] from the menu.
- In Explorer, select the user product path, and select [Edit] -> [Paste] from the menu.

3

Chapter 4

Deleting the nV-Tool

There are the standalone version and client-server version of the nV-Tool. This chapter describes how to delete them.

4.1 Standalone Version	166
4.2 Client-server Version	167

4.1 Standalone Version

Delete the existing nV-Tool from the PC in the following steps.

Perform them with the administrator authority.

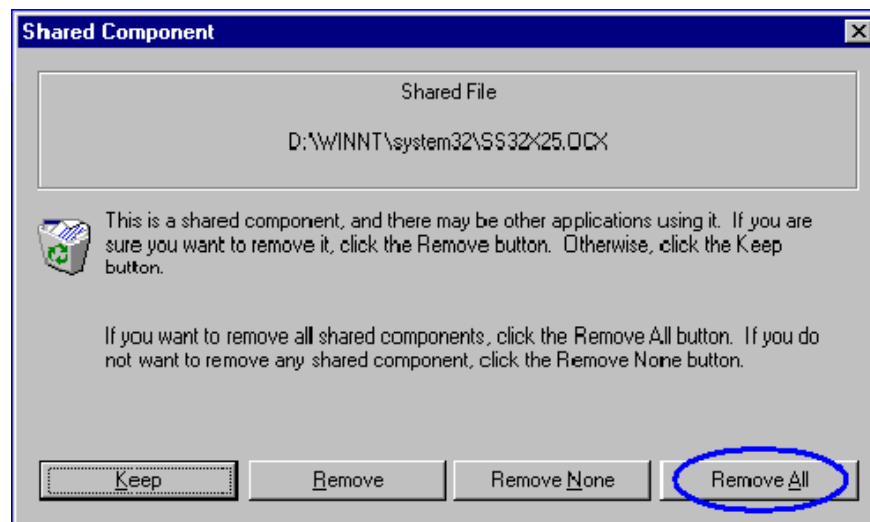
- Exiting from the application
- Uninstalling the nV-Tool

■ Exiting from the application

If the nV-Tool or other applications are running, exit from them.

■ Uninstalling the nV-Tool

- From the Start menu, execute [Settings] -> [Control Panel] -> [Add or Remove Programs].
- Select [Change or Remove Programs] at the far left.
- Select the "Engineering Tool" item from the list, and click the Change/Remove button.
- After that, follow the messages to delete the nV-Tool. When the following dialog is displayed, click Remove All.



4.2 Client-server Version

Delete the existing nV-Tool from the PC in the following steps.

Perform them with the administrator authority.

- Exiting from the application
- Uninstalling the nV-Tool

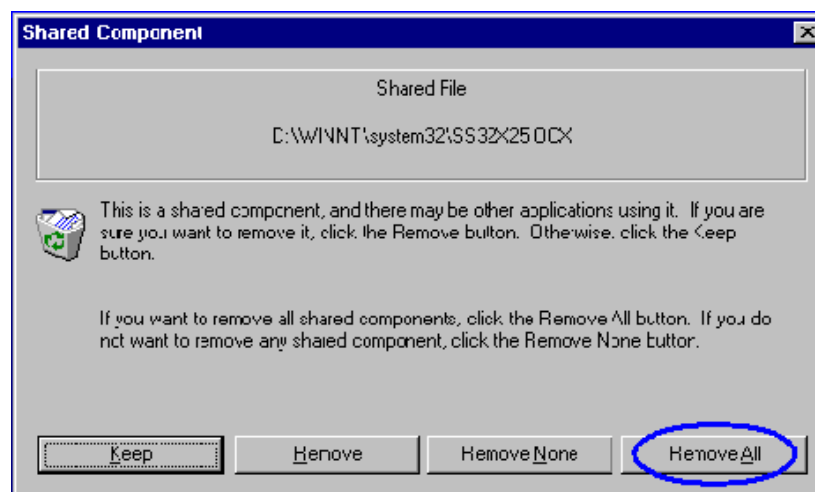
■ Exiting from the application

If the nV-Tool or other applications are running on the server PC or any of the client PCs, exit from them.

■ Uninstalling the nV-Tool

Perform the following from "Server PC" and "Client PC" in the client-server configuration.

- From the Start menu, execute [Settings] -> [Control Panel] -> [Add or Remove Programs].
- Select [Change or Remove Programs] at the far left.
- Select the "Engineering Tool" item from the list, and click the Change/Remove button.
- After that, follow the messages to delete the nV-Tool. When the following dialog is displayed, click Remove All.



4

Unified Controller nv series & Integrated Controller V series
Engineering Tool 4 –Setup–

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TOSHIBA CORPORATION

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