

Installation Guide (Windows Server 2022)

NEC Express Server Express5800 Series

Express5800/R120i-1M, R120i-2M

- Chapter 1 Installing Windows
- Chapter 2 Maintenance
- Chapter 3 Appendix

EXPRESSBUILDER E8.10-010.01 CBZ-002473-258-00 © NEC Corporation 2021

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Introduction

Thank you for purchasing our product.

When using the **EXPRESSBUILDER E8.10-010.01 (3.70.46)**, see this manual before installing Windows. Please read carefully the instructions and keep this document for your future reference.

Conventions Used in This Document

Notations used in the text

The symbols used in this document include the following:

Important	Indicates critical items that must be followed when handling hardware or operating software. If the procedures described are not followed, hardware failure, data loss, and other serious malfunctions could occur .
Note	Indicates items that must be confirmed when handling hardware or operating software.
Tips	Indicates information that is helpful to keep in mind when using this server.

Optical disk drive

This server is equipped with one of the following drives. These drives are referred to as *optical disk drive* in this document.

- DVD-ROM drive
- DVD Super MULTI drive

Hard disk drive

Unless otherwise stated, hard disk drive described in this document refer to the following.

- Hard disk drive (HDD)
- Solid state drive (SSD)

Removal Media

Unless otherwise stated, removal media described in this document refer to both of the following.

- USB Memory
- Flash FDD

Abbreviations of Operating Systems

Windows Operating Systems are referred to as follows.

See Chapter 1 (1.2 Supported Windows OS) for detailed information.

Notations in this document	Official names of Windows
Windows Server 2022	Windows Server 2022 Standard
	Windows Server 2022 Datacenter

About description of model names

The following models are supported by this document. If not mentioned especially, the contents is for all models. When the contents differs by model, each contents are described with model name.

Supported model is as follows.

Express5800/R120i-1M Express5800/R120i-2M

Installation Guide (Windows Server 2022)

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NEC Express5800 Series

Installing Windows

This manual explains the setup procedure for a physical environment. Read through this chapter to set up the Windows correctly.

1. Information of Windows Installation

Describes Supported Windows OS and mass storage controllers which is supported by EXPRESSBUILDER/Starter Pack.

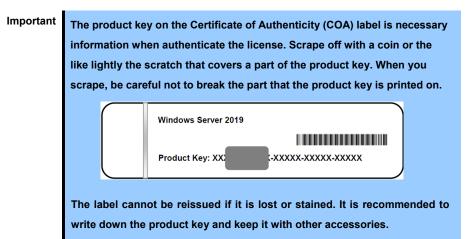
- Flow of Windows Installation
 Describes the flow chart of Windows installation.
- Installing Windows Server 2022
 Describes how to install Windows Server 2022.
- Setting up for Maintenance
 Describes the features that should be set up for maintenance in advance.

5. Backup of system information

Describes how to back up the setting information of the system in advance of troubles.

I. Information of Windows Installation

This section describes the points of using EXPRESSBUILDER/Starter Pack to install Windows operating system.



Refer to the following for the installation of virtual OS.

If your virtualization infrastructure is Hyper-V:

Refer to the following web site for the Hyper-V setting and the installation procedure of the guest OS and so on.

https://www.58support.nec.co.jp/global/download/w2022/hyper-v/hyper-v-ws2022.html

If your virtualization infrastructure is not Hyper-V:

Refer to the manual provided by virtualization infrastructure vendor to prepare the virtual environment. Prepare a media or an ISO image of the OS to install.

- 1. Start the virtual machine from a media or an ISO image of the OS to install.
- 2. Follow the on-screen instruction to complete the OS installation.
- 3. Refer to the manual provided by virtualization infrastructure vendor to install the necessary services and applications.

I.I Starting EXPRESSBUILDER

Use EXPRESSBUILDER to reconfigure RAID arrays.

For details, see Chapter 1 (4. Details of EXPRESSBUILDER) in Maintenance Guide (Common).

<u>Usage</u>

Remove a CD/DVD and removable media from the server, restart the server and press <F10> key (EXPRESSBUILDER) during POST.

1.2 Supported Windows OS

You can install the following editions of Windows operating system.

OS

: Manual installation

	Boot mode		Installation method		
Name of Windows	UEFI	Legacy	EB	OS	
Windows Server 2022 *	Standard	~	N/A	N/A	~
	Datacenter	\checkmark	N/A	N/A	✓

✓ : Supported

* "Nano Server" is not supported.

1.3 Supported Mass Storage Controllers

The table below lists the controllers for this server, supported by EXPRESSBUILDER/Starter Pack.

If a controller not mentioned below is connected, set it up while referring to the instructions supplied with the controller.

	R120i-1M	R120i-2M				
RAID controller supporting the installation of OS at EXPRESSBUILDER						
N8103-189 RAID Controller (RAID 0/1)	\checkmark	✓				
N8103-190 RAID Controller (2GB, RAID 0/1/5/6)	✓	\checkmark				
N8103-191 RAID Controller (4GB, RAID 0/1/5/6)	✓	\checkmark				
N8103-192 RAID Controller (RAID 0/1)	\checkmark	N/A				
N8103-193 RAID Controller (2GB, RAID 0/1/5/6)	\checkmark	N/A				
N8103-194 RAID Controller (4GB, RAID 0/1/5/6)	~	N/A				
N8103-195 RAID Controller (RAID 0/1)	~	\checkmark				
N8103-201 RAID Controller (2GB, RAID 0/1/5/6)	✓	\checkmark				
N8103-237 RAID Controller (4GB, RAID 0/1/5/6)	\checkmark	\checkmark				
N8103-238 RAID Controller (8GB, RAID 0/1/5/6)	✓	\checkmark				
N8103-239 480GB SSD Adapter for OS Boot (RAID 1)	\checkmark	\checkmark				

✓: Supported

1.4 Supported Optional LAN board

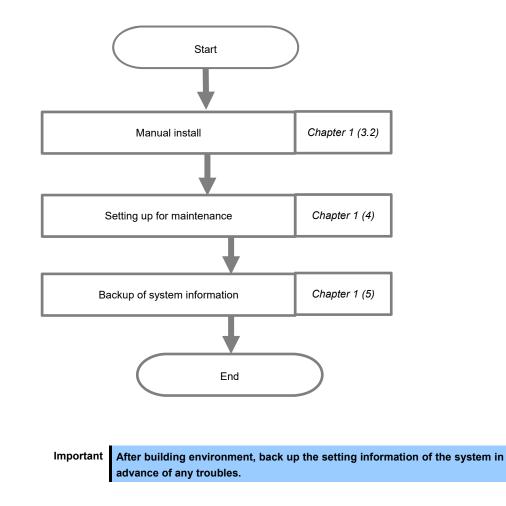
The table below lists the optional LAN boards for this server, supported by Starter Pack.

	R120i-1M	R120i-2M
N8104-207 Dual Port 10GBASE-T LOM Card	\checkmark	~
N8104-210 Dual Port 10GBASE-T Adapter	\checkmark	~
N8104-211 Dual Port 10/25GBASE SFP28 Adapter	\checkmark	✓

✓: Supported

2. Flow of Windows Installation

Read a proper section to install Windows according to the following figure.



3. Installing Windows Server 2022

3.1 Precautions of Windows Server 2022 Installation

Read the precautions explained this section before installing.



: Rapid Setup

: Manual Installation

BIOS	BIOS setting					
_		OS	Change Boot Mode to UEFI Mode . For details, see <i>Chapter 2 (1. System Utilities)</i> in <i>Maintenance Guide</i> .			
			System Configuration > BIOS/Platform Configuration (RBSU) > Boot Options > Boot Mode > UEFI Mode			
-		OS	Select Enabled for x2APIC feature of processor. For details, see <i>Chapter 2 (1. System Utilities)</i> in <i>Maintenance Guide.</i> System Configuration > BIOS/Platform Configuration (RBSU) > Processor Options > Processor x2APIC Support > Enabled			
_		OS	<u>R120i-1M/R120i-2M</u> Change time format to the Coordinated Universal Time (UTC). For details, see <i>Chapter 1 (1. System Utilities)</i> in <i>Maintenance Guide (Common)</i> . System Configuration > BIOS/Platform Configuration (RBSU) > Date and time > Time Format : Coordinated Universal Time (UTC)			
_		OS	<u>R120i-1M/R120i-2M</u> Change time zone to the Set arbitrary time zone. For details, see <i>Chapter 1 (1. System Utilities</i>) in <i>Maintenance Guide (Common).</i> System Configuration > BIOS/Platform Configuration (RBSU) > Date and time > Time Zone : Set arbitrary time zone			
		05	 When installing TPM, set the following settings. For details, see <i>Chapter 1 (1. System Utilities)</i> in <i>Maintenance Guide (Common)</i>. System Configuration > BIOS/Platform Configuration (RBSU) > Server Security > Advanced Security Options > Platform Certificate Support > [Enabled] System Configuration > BIOS/Platform Configuration (RBSU) > Server Security > Trusted Platform Module Options > Advanced Trusted Platform Options > TPM Visibility > [Visible] 			

iait	uware	conng	uration	
			The following h	ardware configurations require special procedures.
		08		controller stall Windows Server 2022, if using a RAID controller, configure the RAID system ccording to the <i>Maintenance Guide</i> .
		OS		When Multiple Logical Drives Exist wrong hard disk drive in Windows Server 2022 installation, the setup may erase unexpectedly.
		OS	When you in using Windov after the insta	to a mirrored volume stall Windows Server 2022 in an environment with a mirrored volume created ws, disable mirroring before installing the operating system and enable it again allation. Use [Computer Management] – [Disk Management] to create, disable, or nirrored volume.
		08		such as RDX IX device before installing. Some peripherals need to be halted before installation. manual provided with the peripherals for how to set a device appropriate to
_	_	08		nd similar media edia that is unnecessary to installation during setup.
		08	-	to dynamic disks amic disks are not recommended for Windows OS, convert it to basic disk and the
		OS	Setup when r	mass memory is installed ory is installed in your system, the large size of paging file is required at installatior
			If you fail to following step	ion size for storing debug information (dump file) cannot be allocated. create the partition, allocate the required size to multiple disks according to the os. e system partition size to a size sufficient to install the OS and paging file.
			2. Specif	fy another disk as the destination to save the debug information (required dump file according to <i>Chapter 1 (4. Setting up for Maintenance)</i> .
				isk drive does not have enough free area to write the debug information, set th to a size sufficient to install the OS and paging file, and then add another hard dis dump file.
			Note	If the partition size for installing Windows is smaller than the recommended size, expand the partition size or add another hard disk drive.

If sufficient free area cannot be allocated for the paging file, perform either of the following after install Windows.

 Specify a hard disk drive other than the system drive as the location to store the paging file for collecting memory dump

Create a paging file of 16MB or more in the system drive, and

"installed memory size + 400 MB (installed memory size + 1,800 MB when the size is 4 TB or more)" or more in a drive other than the system drive.

Edit the registry shown below by using the Registry Editor to specify the drive for collecting memory dump to top.

Key	:	HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\Session Manager\Memory Management
Name	:	PagingFiles

For example as following, installed memory size is 8GB(8,192MB) and specify paging file in C: drive and E: drive, and use a paging file of E: drive to collect memory dump.

* Following value differs by specified paging file size.



C:\pagefile.sys 16 16 E:\pagefile.sys 8592 8592 (* 8592 = 8192+ 400)



E:\pagefile.sys 8592 8592 C:\pagefile.sys 16 16

Be careful of following when edit this settings.

- Be careful to edit registry.
- The setting is applied after restarting the system.
- Paging file on dynamic volume can not be used to collect memory dump.
- Because only the top drive of registry is used to collect memory dump, you need to set "installed memory size + 400 MB (installed memory size + 1,800 MB when the size is 4 TB or more)" paging file or more for 1 drive.
 - * Setting paging file divided as below is incorrect.

Memory dump may not be collected.

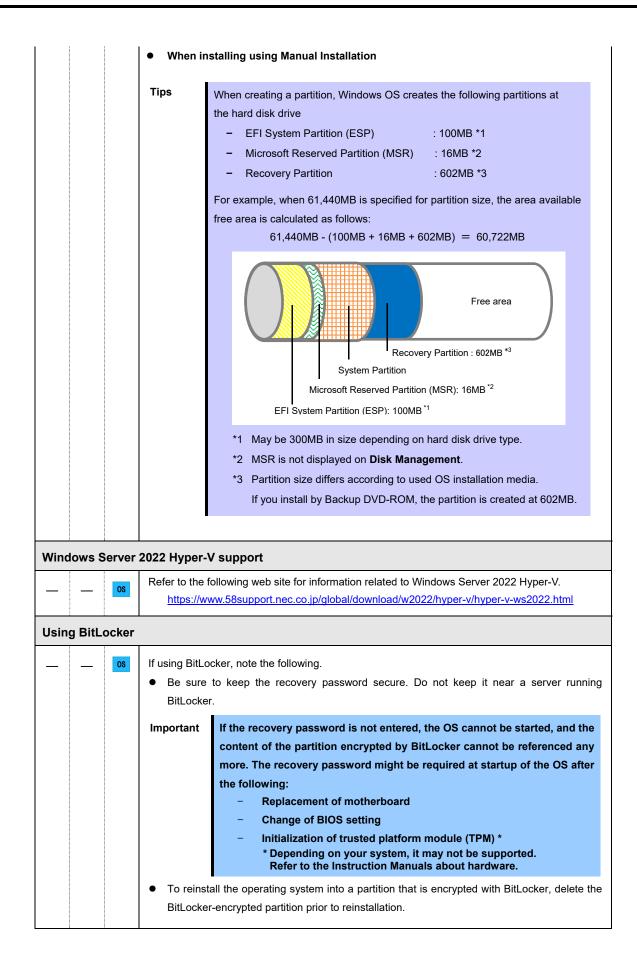
- C: Paging file whose size is 16 MB
- D: Paging file whose size is "installed memory size x 0.5"
- E: Paging file whose size is "installed memory size x 0.5"
- F: Paging file whose size is 400 MB or 1,800MB
- If you close setting screen of paging file with [OK] button, registry value above will be changed although you do not change settings.

Opening setting screen of paging file before editing registry or after editing it, is unrelated.

When registry value is changed, you need to edit again manualy, and then need to restart system to reflect settings.

		 Specify a drive other than the syst 	em drive for "Dedicated Dump File".			
		Create the registry shown below by using the Registry Editor and specify the name of				
		Dedicated Dump File.				
		<for "dedicateddumpfile.sys"="" d="" drive="" example:="" in=""></for>				
		Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl				
		Name : DedicatedDumpFile				
		Type : REG_SZ				
		Data : D:\dedicateddumpfile.sys				
			De diseted Durren Files			
		Note the following when specifying				
		The setting is applied after re Specify a drive that has fit				
			ee space of "installed memory size + 400 MB"			
		("Installed memory size + 1, more) or more.	800 MB" when the installed memory size is 4TB or			
		,	be placed in dynamic volumes.			
			used for collecting memory dump, and is not used			
			ing file size so that sufficient virtual memory can be			
		allocated in the entire system	· ·			
			1.			
System p	artition	size				
	OS	The system partition size can be calculated	by using the following formula.			
		Size required to install the $OS \pm paging fi$	le size + dump file size + application size			
			ie size + dump me size + application size			
		Desktop Experience				
		Size required to install the OS	= 15,900 MB			
		Paging file size (recommended)	= installed memory size + 400MB			
		Dump file size	= installed memory size + 400MB			
			 (installed memory size is 4 TB or less) installed memory size + 1,800MB (installed memory size is exceeding 4 TB) 			
		Application size	= as required by the application			
		Server Core				
		Size required to install the OS	= 10,700MB			
		Paging file size (recommended)	= installed memory size + 400MB			
		Dump file size	 installed memory size + 400MB (installed memory size is 4 TB or less) 			
			 installed memory size + 1,800MB (installed memory size is exceeding 4 TB) 			
		Application size	= as required by the application			
		For example, if the installed memory size is	s 8 GB (8,192 MB), and application size is 100 MB,			
		the partition size is calculated as follows:				
		15,900MB + (8,192MB + 400MB) + 8,192MB + 400MB + 100MB				
		= 33,184MB				

De Se	ng partition sizes are recommended. esktop Experience : 32,768MB(32GB) or more rver Core : 32,768MB(32GB) or more IGB = 1,024MB
Note	 In Windows Server 2022, a recovery partition will be created after the system partition. The system partition can not be extended because there no unallocated area behind the system partition. Install Windows OS within sufficient partition size. The above paging file sizes are recommended for collecting debug information (dump file). The initial size of the Windows partition paging file must be large enough to store dump files. Make sure you set a sufficient paging file size. If the paging file is insufficient, there will be a virtual memory shortage that may result in an inability to collect correct debug information. Regardless of the sizes of internal memory and write debug information, the maximum size of the dump file is "installed memory size + 400 MB (installed memory size + 1,800 MB when installed memory size is 4 TB or more)". When installing other applications or other items, add the amount of space needed by the application to the partition.



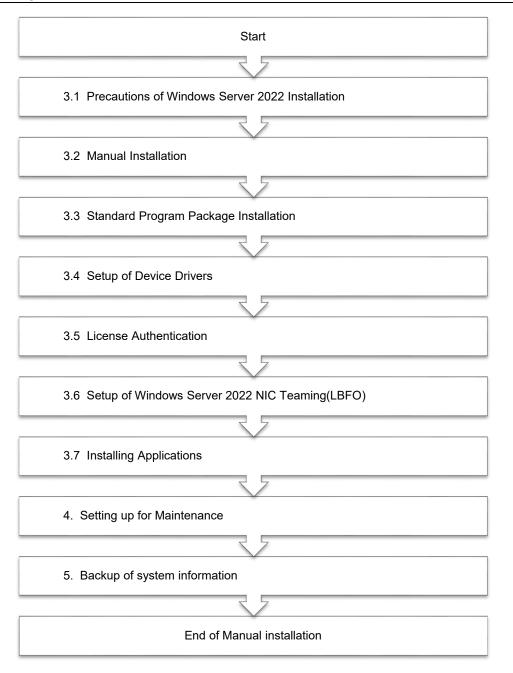
Support for NIC	teaming in Windows Server 2022
08	The NIC teaming feature, which used to be provided by network interface card (NIC) vendors, is built into Windows Server 2022. In Windows Server 2022, this feature is also called "load balancing and failover (LBFO)". Refer to <i>Chapter 1 (3.6 Setup of Windows Server 2022 NIC Teaming (LBFO)</i> and specify any required settings.

3.2 Manual Installation

This section describes how to install Windows Server 2022 with Manual option.

Important	Disconnect hard disk drives from the RAID controller that is not to be setup.
Note	"Manual Installation" installs OS without EXPRESSBUILDER.

3.2.1 Setup flow



3.2.2 Requirements for Setup

Prepare the following media and instruction manuals before starting setup.

- > Either of the following OS installation media
 - NEC operating system installation media (hereafter referred to as Backup DVD-ROM)
 - Microsoft operating system installation media (hereafter referred to as *Windows Server 2022 DVD-ROM*)
- Starter Pack
 - Starter Pack DVD (Optional or downloading from our website)
 - → The Starter Pack which supports Windows Server 2022 is "S8.10-010.01" or later. Download it from Web site.

3.2.3 Installation procedure

Note

Read the precautions in *Chapter 1 (3.1 Precautions of Windows Server 2022 Installation)* in advance.

- Turn on peripherals (such as a display), and then turn on the server. Insert OS installation media into the drive.
- 2. To run EXPRESSBUILDER, press <F11> key during POST.

On the **One-Time Boot Menu**, select the optical disk drive in which the OS installation media was inserted.

3. The system starts from the OS installation media

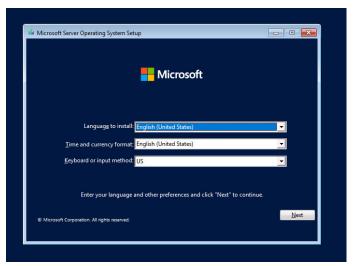
he message "Press any key to boot from CD or DVD..." is displayed on the upper of the screen. Press the <Enter> key to start from the media.

Loading files		

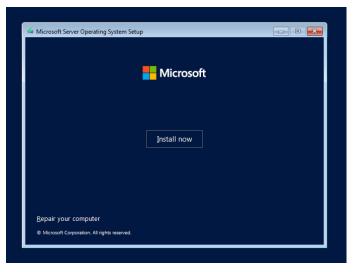
Note

If the Windows Setup screen (the screen in the next step) does not display, the <Enter> key was not properly pressed. Turn the system power on again, and then start again.

4. Click Next.



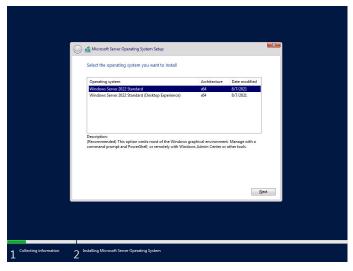
5. Click Install now.



6. Type the product key, and then click **Next**.

ſ	🚱 🔏 Microsoft Server Operating System	Setup 🚾
	installing a different edition), you need key. Your product key should be in the of Microsoft Server Operating System System came in. The product key looks like this: XOOOX If you're reinstalling Microsoft Server C	To once a series of the two constraints of tw
	Erivacy statement] don't have a product key Hest
$1^{Collecting information}$	2 Installing Microsoft Server Operating Sys	ten .
	Tips	If you are using Backup DVD-ROM, this screen does not appear.

7. Choose an operating system you want to install and click Next.



Options are displayed depending on the installation media you are using.

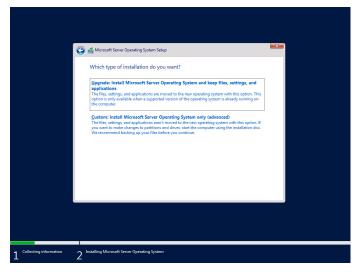
Tips	Read the message of the screen, and then choose an installation option.
	Windows Server 2022 Standard or Windows Server 2022 Datacenter
	→ Described as "Server Core" by this manual
	Windows Server 2022 Standard (Desktop Experience) or Windows
	Server 2022 Datacenter (Desktop Experience)
	\rightarrow Described as "Desktop Experience" by this manual

8. Read the license terms carefully.

If you agree, check I accept the Microsoft Software License Terms and click Next.

G	Microsoft Server Operating System Setup Applicable notices and license terms	
	YOU MUST ACCEPT THE SOFTWARE LICENSE TERMS. SEE BELOW. Please read the full license terms provided at (aka.ms/useterms). IMPORTANT NOTICE Diagnostic and Usage Information. Microsoft collects this information over the Internet to help keep Windows secure and up to date, troubleshoot problems, and make product improvements, and may associate the information with your organization. Microsoft server operating systems can be configured to turn diagnostic data. The default setting is to can Required diagnostic data, or send Optional diagnostic data. The default setting is to can Required diagnostic data. The default data includes information to help keep the device secure, up-to-date, and working as expected.	×
	$\underset{l}{\boxtimes}$] accept the Microsoft Software License Terms. If an organization is licensing it, I am authorized to bind the organization.	Next

9. Select Custom: Install Microsoft Server Operating System only (advanced).



10. Click New.

C	🔏 Microsoft Server Opera	ating System Setup	,							
	Where do you wan	t to install the	operating system?							
	Name		Total size	Free space Type						
	Drive 0 Unalloca	ited Space	127.0 GB	127.0 GB		_				
	€g Befresh € Load driver	X Delete	₽ Eormat	* New	Next					
^{formation} 2	Installing Microsoft Server C	Operating System								
	Tips		If New is	not displa	iyed oi	n the sc	reen, cli	ck Driv	e option	s (a

11. Specify the partition size in the text box, and the click **Apply**.

d Space	127.0 GB	127.0 GB		
Delete 🥥	Eormat	* New		
Extend Size	te: \$1,30048	MB Appl	y <u>C</u> ancel	
			Next	

M

When the following window appears, click OK.

	5	
icrosoft S	Server Operating System Setup	
1	To ensure that all Windows featur additional partitions for system fil	es work correctly, Windows might create es.
	Note	After beginning the installation of Windows, a recovery partition is created automatically behind the system partition. The system partition can not be extended because there is no unallocated area behind the system partition. Install Windows OS within sufficient partition size.
	Tips	 When creating a partition, the OS creates the following partitions at top of the hard disk drive. EFI System Partition (ESP) Microsoft Reserved Partition (MSR)

12. Select the partition created in step 11, and then click **Format**.

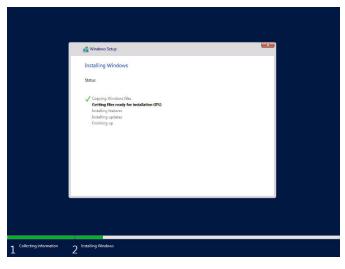


13. Select the created partition, and then click Next.

Name	ition 1: System Reserved	Total size 100.0 MB	Free space 88.0 MB		
Drive 0 Part	ition 2 Ilocated Space	35.1 GB 91.8 GB	35.0 GB 91.8 GB	Primary	
Jrive 0 Una					
€ <u>⊅ R</u> efresh	X <u>D</u> elete		-∰ Ngw		
🚯 Load driver	Extend				
				Next	
				Her	

The number of partitions displayed differs depending on the hardware configuration.

When the following message appears, Windows installation starts automatically.



The server will automatically restart after Windows Server 2022 is installed. You will proceed to Windows setup after restart.

14. Set user settings according to operating system chosen in step 9.

Desktop Experience

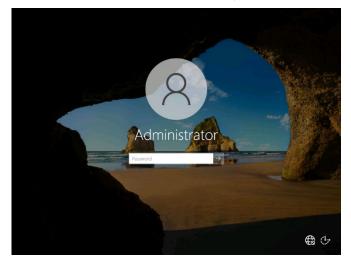
Type a password and click Finish.

Type a password for the	e built-in administrator account	that you can use to sig	n in to this computer.	
User name				
Password	•••••			
Reenter password	•••••	Ŷ		

Press <Ctrl> + <Alt> + <Delete> keys to unlock.



Enter the password and press <Enter> key.



Windows Server 2022 starts.

脑 Server Manager			
چھ- Ser	ver Manager • Dashboard	🛛 🗭 🚩 Manage Tools Vie	sw Help
🛄 Dashboard	WELCOME TO SERVER MANAGER		
Local Server			
All Servers	🔁 Server Manager	×	
File and Storage Se	Try managing servers with Windows Admin Center	ver	
	Try managing servers will vincove Jonan Caner Windows Admin Center brings together new and familiar features in one browser-base app. It runs on a server or a PC, and there's no additional cost beyond your Windows licenses.	кd	
		age	
	Get more info at aka.ms/\/indowsAdminCenter	-	
	Don't show this message again	ud services	
L		jud services	
	LEARN MORE		Hide
	Less te mone		
	ROLES AND SERVER GROUPS		
	Roles: 1 Server groups: 1 Servers total: 1		
	File and Storage 1	er 1	
	Manageability Manageability Manageability	lity	
	Events Events		
	Performance 2 Services		
	BPA results Performance	e	
	BPA results		
		11/5/2021 7:50 PM	
Type here to	o search 🔤 🔁 🛼		
/ type nere of	o search	11/5	5/2021

Server Core

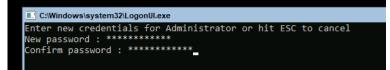
Press <Ctrl> + <Alt> + <Delete> keys to unlock.



The password is needed to change. Choose OK and press <Enter> key.

	C:\Windows\system32\LogonUI.exe							
Admir	nistrat	or						
The u	user's	password	must	be	changed	before	signing in.	
ОК								
Cance	el							

Enter a new password and press <Enter> key.



Choose OK and press <Enter> key after the following message is displayed.

C:\Windows\system32\LogonUI.exe				
Administrator				
Your password has been changed.				
OK				

Windows Server 2022 starts.

	Admir	nistrator: C:\Windows\system32	\cmd.exe			
W/4	ARNING	: To stop SConfig fro	m launching at	t sign-in, type	"Set-SConfig	-AutoLaunch \$f
		Welcon	e to Windows S	Server 🍟 PSta	ndard	
	1) 2)	Domain/workgroup: Computer name:		Workgroup: 🛀		

- 15. See Chapter 1 (3.3 Standard Program Package Installation) to install SPP.
- 16. Install drivers and specify detailed settings according to Chapter 1 (3.4 Setup of Device Drivers).
- 17. Confirm if Windows is activated according to Chapter 1 (3.5 License Authentication).
- 18. See Chapter 1 (3.6 Setup of Windows Server 2022 NIC Teaming (LBFO)) to setup a team as needed.
- 19. Install the applications as needed according to Chapter 1 (3.7 Installing Applications).
- 20. Set the other OS settings according to Chapter 1 (4. Setting up for Maintenance).
- 21. See Chapter 1 (5. Backup of system information) to back up the system.

The Windows installation with Manual Installation is now complete.

3.3 Standard Program Package Installation

Standard Program Package (SPP) contains drivers customized for this server.

Make sure to install Standard Program Package before running the server system.

System reboot is required after applying Standard Program Package.

This program can apply using iLO remote console and iLO virtual media.

Important	 Make sure to update firmware by booting "Starter Pack DVD" before applying Standard Program Package. If you mistake procedure, the system may not start. When you use these options, refer to the following procedure to install these drivers individually from "Starter Pack DVD" before installing SPP. SPP may be stopped with error if you do not install the driver beforehand.
	When N8103-189/190/191/192/193/194/195/201/237/238 is installed to the server
	When the RAID controller is installed to the server, \packages\cp047413.exe on the DVD to install the driver.

3.3.1 Installing Standard Program Package on Desktop Experience

- 1. Sign-in to the Windows with an Administrators privilege.
- 2. Set the Starter Pack DVD to the drive.
- 3. Run the **start_up.bat** under the root folder on DVD.
- 4. Click Integrated Installation on the menu.

Starter Pack			NEC
		Instruction Manuals	
	i	Versions	
	P	Integrated Installation	
		Applications	
	₿ k	Exit	
			Version S8.10-001.01(001)

5. Choose Standard Program Package on the following screen, and then click Install.

Starter Pack			
Starter	r Pack		NEC
	Integrated Installation		
	Install the following software. – Install Standard Program Package prior to in – Uninstall the application prior to reinstalling t	stalling the application. the application.	
	Standard Program Package		
Î	Applications INEC ESMPRO ServerAgentService	Rev2.0	Not installed
	Express Report Service Express Report Service (HTTPS)	Rev3.5E Rev3.8	Not installed Not installed
	RAD Report Service	Rev3.8 Rev1.00 (3459)	Not installed
	Product Info Collection Utility	Rev3.0.5	Not installed
	RESTful Interface Tool	Rev2.0.0.0	Not installed
ß			Install

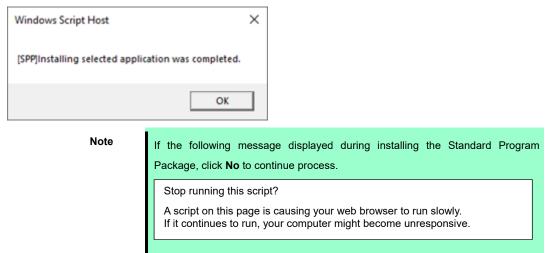
 If you had updated firmware beforehand, click **OK** to start the installation of Standard Program Package.

Wait until installation completes (about 5 to 15 minutes).

		×	
?	After updating the BIOS/FW of the server by booting this Starter Pack DVD, you can install the Standard Program Package(SPP) by using this feature. If you install the SPP before updating the BIOS/FW included in this DVD, the server becomes failing to boot. Are you ready to install the SPP?		
	OK Cancel		

Note		If the following message displayed during installing the Standard Pro Package, reboot the system and retry Step1-6.	ogram
		×	
		An error occurred during installing the Standard Program Package. (Code:-1 [: =_===])	
		Click [OK] to restart the computer, and then install it manually from Starter Pack menu by selecting [Applications] - [Standard Program Package] according to the need.	
		If the Starter Pack disc is inserted, click [OK] and then remove it.	
		ОК	
	•	iLO may be reset during applying Standard Program Package.	
		If iLO is reset, iLO remote console and iLO virtual media is disconnect	
		When iLO remote console and iLO virtual media is disconnected, co again after 30 seconds or more.	onnect

7. Click OK.



8. Windows Server 2022 restarts automatically.

Then, remove the Starter Pack DVD.

Starter Pa	ck	×
	Click [OK] to restart the computer. If the Starter Pack disc is inserted, click [OK] and then remove it.	
	ОК	

SPP installation is now complete.

3.3.2 Installing Standard Program Package on Server Core

- 1. Sign-in to the Windows with an Administrators privilege.
- 2. Set the Starter Pack DVD to the drive.
- 3. From the command prompt, type the following command.

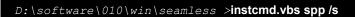
In the example below, the optical disk drive is the D drive.

cd /d D:\software\010\win\seamless

C:\Users\administrator>cd /d D:\software\010\win\seamless

4. Type the following command, and then press <Enter> key.

instcmd.vbs spp /s

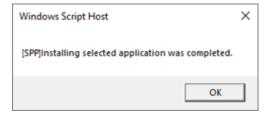


 If you had updated firmware beforehand, click **OK** to start the installation of Standard Program Package.

Wait until installation completes (about 5 to 15 minutes).

	×
Starter Pack DVD, you ca Package(SPP) by using t If you install the SPP be	fore updating the BIOS/FW included becomes failing to boot.
	OK Cancel
Note	• If the following message displayed during installing the Standard Program
	Package, reboot the system and retry Step1-5.
	(SPP]Application setup failed.(Code:
	 iLO may be reset during applying Standard Program Package.
	If iLO is reset, iLO remote console and iLO virtual media is disconnected.
	When iLO remote console and iLO virtual media is disconnected, connect
	again after 30 seconds or more.

6. Click OK.



7. After removing the Starter Pack DVD, restart Windows Server 2022 manually.

SPP installation is now complete.

3.4 Setup of Device Drivers

Install and set up device drivers provided for the standard configuration of the server.

For details regarding the installation and setup of a driver for an optional device, refer to the manual supplied with the optional device.

3.4.1 Installing the LAN drivers

(1) LAN drivers

The drivers are installed by Standard Program Package.

Important	Wake On LAN (WOL) is supported by N8104-207 only. Wake On LAN is available after installing the LAN driver. BIOS settings, check Maintenance Guide.
Note	 To change the LAN driver settings, sign in to the system from a local console using an administrator's account. Remotely changing the settings by using the operating system's remote desktop feature is not supported. Choose the Internet Protocol (TCP/IP) check box when specifying an IP address.

(2) Optional LAN board

This server supports the following optional LAN boards.

R120i-1M R120i-2M N8104-207/210/211	
--	--

If you install the LAN boards after installing Standard Program Package, install Standard Program Package again according to *Chapter 1 (3.3 Standard Program Package Installation)*.

(3) Network adapter name

After installing the LAN drivers, the following network adapter names will be displayed on the Device Manager.

If connecting with an optional LAN board:

Tips

- N8104-207 Marvell FastLinQ Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter #xx(*1)
- N8104-210 Marvell FastLinQ Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter #xx(*1)
- N8104-211 Marvell FastLinQ Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter #xx(*1)
 - *1: If there are adapters with the same name, a different identification number will be assigned to xx.

Tips	The ID for N8104-207/210/211 might be a number of two or more digits.
	This is due to the LAN driver specifications and not an error.
	This number cannot be changed.

- The network adapter name displayed in the device manager may be different from the one listed above. In this case, the correct network adapter name can be displayed by following the procedure below.
- 1. Start Device Manager.
- 2. Open **Network Adapters**, right click on the relevant adapter, and select **Uninstall Device**.
- Do not check the **Delete the driver software of this device** checkbox.
- 3. Select Scan hardware change from Control.

3.4.2 Setting up LAN drivers

(1) Setting link speed

The transfer rate and duplex mode of the network adapter must be the same as those of the switching hub. Follow the procedure below to specify the transfer rate and duplex mode.

- 1. Open the Device Manager.
- 2. Expand **Network Adapters**, and then double-click the name of the network adapter you want to configure.

The properties of the network adapter will be displayed.

3. On the Advanced tab, set the Speed & Duplex values to the same as those of the switching hub.

Tips

When using the N8104-207/210/211, **Link control** set to **Driver controlled**. *When **Link control** is **Preboot controlled**, link speed setting of BIOS take a priority.

- 4. Click OK in the Network Adapter Properties dialog box.
- 5. Restart the system.

The link speed setting is now complete.

(2) Configuring Flow Control

Flow Control is a feature to stop transmitting frames temporarily by sending a pause frame to the destination device when the receive buffer is about to run out. When it receives a pause frame, it regulates the transmission.

Configure the Flow Control following the procedure below

Tips

The settings of Flow Control of the network adapter should match those of the destination device. For example, if Flow Control in the destination device is set as Enabled, that in the network adapter should be set as Enabled.

- 1. Open the **Device Manager**.
- 2. Expand **Network Adapters**, and then double-click the name of the network adapter you want to configure.

The properties of the network adapter will be displayed.

- 3. Open Advanced tab, click Flow Control to show Value.
- 4. The Value can be changed by the down-arrow button.
- 5. Click **OK**, and then restart the system.

The Flow Control setting is now complete.

3.4.3 Using Graphics Accelerator

For installation with the Manual installation, the drivers are installed by Standard Program Package. If you install the Graphics Accelerator driver after installing Standard Program Package, install Standard Program Package again according to *Chapter 1 (3.3 Standard Program Package Installation)*.

3.4.4 Using RAID Controller (N8103-189/190/191/192/193/194/195/201/237/238)

For installation with the Manual installation, the drivers are installed by Standard Program Package. If you install the RAID controller (N8103-189/190/191/192/193/194/195/201/237/238) after installing Standard Program Package, install Standard Program Package again according to *Chapter 1 (3.3 Standard Program Package Installation)*.

3.4.5 Using 480GB SSD Adapter for OS Boot (N8103-239)

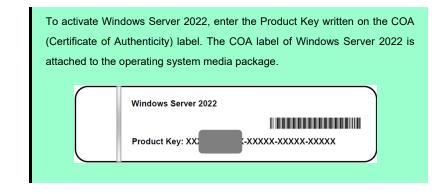
The driver for the 480GB SSD Adapter for OS Boot (N8103-239) is automatically installed by Windows Plug-and-Play.

3.5 License Authentication

To use Windows Server 2022, you need finish the license authentication procedure.

Confirm if the license is authenticated or not in the next step.

Note



3.5.1 Desktop Experience

1. Right-click the lower left of the screen, and click **System** from the menu displayed.

G							
	Apps and Features						
	Power Options						
	Event Viewer						
-	System						
_							
	Device Manager						
	Network Connections						
	Disk Management						
	Computer Management						
	Windows PowerShell				and the second second		
	Windows PowerShell (Admin)						
	Task Manager						
	Settings						
	File Explorer						
	Search						
	Run						
	Kun						
	Shut down or sign out >						
	Desktop	1.00					
•	/	Ξi	e .			4:04 PM 11/9/2021	5

2. Click Change product key or upgrade your edition of Windows.

Settings	- 🗆 X
 Mome Find a setting ✓ ✓	About Windows specifications Edition Windows Server 2022 Standard Version
🖵 Display	Installed on Sound State
이) Sound	Сору
Notifications & actions	Change product key or upgrade your edition of Windows Read the Microsoft Services Agreement that applies to our services
J Focus assist	Read the Microsoft Software License Terms
O Power & sleep	
📼 Storage	
다. Tablet	Support
目 Multitasking	Manufacturer III. Website Online support
Projecting to this PC	Related settings

3. Perform license authentication.

\leftarrow	Settings			-		×
ŵ	Home	Activati	on			
Fi	nd a setting $ ho$	Windows				
Upc	late & Security	Edition Activation	Windows Server 2022 Standard Unable to reach Windows activation	servers		
С	Windows Update		Learn more			
曲	Delivery Optimization	Product Key	XXXXX-XXXXX-XXXXX-	-		
ŧ	Windows Security	Activate W	/indows now			
Þ	Troubleshoot	If you're having and fix the pro	g problems with activation, select Trou blem.	bleshoo	ot to try	
þ	Recovery	Troublest	noot			
\oslash	Activation	To install a nev	v product key, select Change product l	key.		
Ħ	For developers	🔍 Change p	product key			

When connected to the Internet:

Click Change product key.

Complete license authentication process according to the message.

When not connected to the Internet:

Go to Step 4.

4. Perform the license authentication by phone.

Go to the appropriate step according to OS installation media you are using.

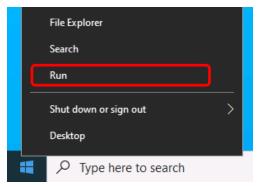
Backup DVD-ROM:	Go to Step
-----------------	------------

Windows Server 2022 DVD-ROM:

Product key is <u>already entered</u> :	Go to Step 8.
Product key is <u>not entered</u> :	Go to Step 5.

5.

5. Right-click the lower left of the screen, and click **Run** from the menu displayed.



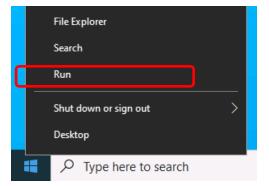
6. Type "slui", and then press <Enter> key.

🖅 Run		×
٨	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	
Open:	slui ~	
	This task will be created with administrative privileges.	
	OK Cancel Browse	

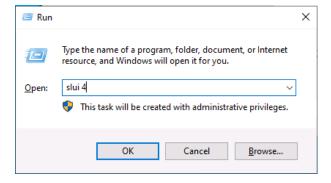
7. Change the product key. On the next screen, type the product key.

Enter a product key		
Enter a product key		
Your product key should be in an email from whoever sold or distr or on the box the Windows DVD or USB came in.	ributed Window	/s to you,
Product key		
xxxx-xxxxx-xxxxx-xxxxx		
	Next	Cancel

8. Right-click the lower left of the screen, and click Run from the menu displayed.



9. Type "slui 4", and then press <Enter> key.



10. On the next screen, choose your country, and then click Next.

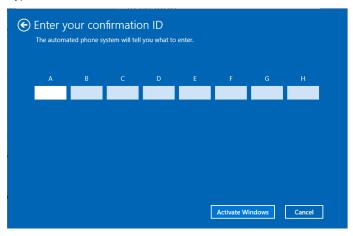
United States	~	

Get the installation ID required for license activation.

) Call a	nd pro	ovide y	our ir	istalla	tion II	D			
		umbers. The olied by loca							
Toll free: 855-801-0)109								
Toll: not availa	ble								
Installatio	on ID:								
0000000	0000000	0000000 (0000000	000000	000000	0000000	0000000	0000000	
Read our	privacy sta								
					Г				
						Enter co	nfirmatio	n ID	Cancel

11. Call the Microsoft license activation hotline and then tell your installation ID.

Type the confirmation ID, and then click Activate Windows.



The authentication is now complete.

3.5.2 Server Core

1. Confirm if your license is activated.

At the command prompt, type the following command, and then press <Enter> key.

C:¥Users¥administrator>**slmgr-dli**

When license authentication is required, go to the next step.

When your license is already authenticated, you can skip the next and the subsequent steps.

2. Change the product key.

Using Backup DVD-ROM:

Type the following command, and then press <Enter> key.

C:¥Users¥administrator>Slmgr -ipk <Product key on COA label>

Using Windows Server 2022 DVD-ROM:

You do not need to change the product key.

Go to the next step

3. Perform license authentication.

The server connects to the Internet:

License authentication is performed via the Internet.

Type the following command, and then press <Enter> key.

C:¥Users¥administrator>**Slmgr**-ato

This completes authentication.

The server does not connect to the Internet:

Use telephone for license authentication.

Type the following command to get an Install ID for authentication, and then press <Enter> key.

C:\Users\administrator>**slmgr** -dti

Acquire the installation ID required for license activation.

Refer to the file %systemroot%\system32\sppui\phone.inf to confirm the telephone number of Microsoft Licensing Center.

Call Microsoft Licensing Center and tell them your Install ID.

Type the confirmation ID you have received in the following command line, and then press <Enter> key.

C:\Users\administrator>slmgr -atp <Confirmation ID>

The authentication is now complete.

3.6 Setup of Windows Server 2022 NIC Teaming (LBFO)

Set up the network adapter teaming feature as shown below.

3.6.1 Launching the NIC teaming setup tool

- 1. Launch Server Manager.
- 2. Select Local Server.
- 3. In the Properties window, click Enable or Disable for NIC teaming.

The NIC teaming setup tool will launch.

Tips

The NIC teaming setup tool can also be launched by opening the **Run** dialog box, typing "lbfoadmin /server .", and then pressing <Enter> key.

3.6.2 Creating a team

Create a team by using the NIC teaming setup tool.

- In the Servers section, select the name of the server to set up.
 If there is only one server connected, the name of the server is selected automatically.
- 2. In the Teams section, under Tasks, select New Team. The New Team wizard then starts.
- 3. Type the name of the team to create, and then select the network adapter to include in the team from the **Member adapters** list.
- 4. Click Additional properties.
- 5. Specify the required settings, and then click OK.

Teaming mode

Static Teaming	Configures static aggregation between the NIC and switches.
Switch Independent	Configures teaming on the NIC side without depending on the switch settings.
LACP	Configures dynamic aggregation between the NIC and switches.

Load balancing mode

Address Hash	Distributes the load based on IP addresses and port numbers.
Hyper-V Port	Distributes the load to each of the virtual switch ports used by the virtual machines.
Dynamic	Distributes the load based on IP addresses and port numbers in sending.
	Distributes the load same to "Hyper-V Port" in receiving.

Standby adapter

Select one adapter to be set to standby mode from the adapters in the team.

Setting all adapters to active mode is also possible.

Primary team interface

Any VLAN ID can be specified for the primary team interface.

3.6.3 Removing a team

Remove a team by using the NIC teaming setup tool.

1. In the Servers section, select the name of the server to set up.

If there is only one server connected, the name of the server is selected automatically.

- 2. In the Teams section, select the team to remove.
- 3. In the Teams section, under Tasks, select Delete.
- 4. The message box to confirm appears, then click Delete team.

3.6.4 Notes and restrictions

- NIC teaming on a guest OS is not supported.
- Teaming of virtual NICs on the host OS is not supported in the Hyper-V environment.
- When STP (Spanning Tree Protocol) is enabled on network switch ports to which network adapters of the team are connected, network communications may be disrupted. Disable STP, or configure "PortFast" or "EdgePort" to the ports.

* About setting the network switch of the connection destination, see the manual of the network switch.

- All NICs in the team must be connected to the same subnet.
- Teaming of different speed NICs is not supported.
- Teaming of different vendor's NICs is not supported.
- When teaming is configured in a Network Load Balancing (NLB) environment, you should select multicast mode on the NLB cluster.
- When a team is removed, the following error message may be logged in the system event log.

You can safely ignore this error message.

Level	Error
Source	Microsoft-Windows-NDIS
Event ID	10317
Task Category	PnP
Message	Miniport Microsoft Network Adapter Multiplexor Driver, {xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

- In a Windows Server Failover Cluster environment, heartbeat interruption or failover may occur if you
 configure Active-Standby teaming. To avoid this, you should configure multiple NICs in Active Mode in a
 team so that all the NICs do not fail simultaneously.
- In Hyper-V environments, binding a teaming adapter to the virtual switch is deprecated.
 Please use SET(Switch Embedded Teaming) when you use teaming in combination with a virtual switch.

Refer to the following website for the latest information.

https://www.58support.nec.co.jp/global/download/w2022/index.html

- [Technical Information] - [NIC Teaming (LBFO)]

3.7 Installing Applications

Some applications included in Starter Pack can be installed easily by performing the procedures described below. When installing these applications individually, see *the manual of each applications*. This feature is **only available on Desktop Experience**.

System reboot is required after installing applications.

Tips

Application can install using iLO remote console and iLO virtual media.

This function supports clean installation of applications only. If you re-install installed application, refer to *the manual of each applications*.

- 1. Sign-in to the Windows with an Administrators privilege.
- 2. Insert the Starter Pack DVD into the optical disk drive.
- 3. Run the **start_up.bat** under the root folder on DVD.
- 4. Click Integrated Installation on the menu.

Starter Pack		NEC
	Instruction Manuals	
i	Versions	
F	Integrated Installation	
	Applications	
₽.	Exit	
		Version S8.10-001.01(001)

5. On the following screen, choose the check boxes corresponding to the applications you want to install, and then click **Install**. The chosen applications are automatically installed.

Starter Pack				
Starter	Pack			NEC
	Integrated Installation			
	Install the following software. – Install Standard Program Package prior to ins – Uninstall the application prior to reinstalling t	stalling the application. he application.		
i	Octande d'Hogrammackage Opplications VINEC ESMPRO ServerAcentService	Rev2.0	Not installed	
	Express Report Service	Rev3.5E	Not installed	
	Express Report Service (HTTPS)	Rev3.8	Not installed	
5	RAID Report Service	Rev1.00 (3459)	Not installed	
	Product Info Collection Utility	Rev3.0.5	Not installed	
	RESTful Interface Tool	Rev2.0.0.0	Not installed	
				nstall
]

Note	Applications available for installation are chosen by default.
	• If your system environment does not satisfy the prerequisite for an application,
	you cannot install it. For details, see the on-screen information and the manual
	of each applications.
	 To collect product information using a device information collection utility,
	RESTful interface tool needs to be installed. If it is not installed, some logs
	required for the maintenance may not be gathered.
	 If the following message displayed during installing applications, click No to
	continue process.
	Stop running this script?
	A script on this page is causing your web browser to run slowly.
	If it continues to run, your computer might become unresponsive.

- 6. When a message indicating restart appears, click **OK** to restart the server.
- 7. See *the manual of each applications* to install the bundled software or confirm that the software is appropriate to your operating environment.

Now installation of applications is complete.

4. Setting up for Maintenance

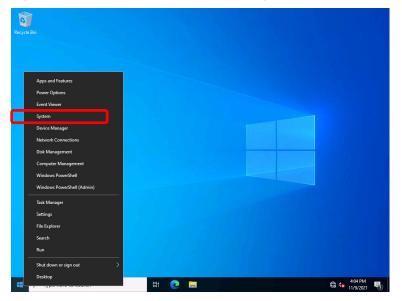
We recommend setting up the following features for maintenance.

4.1 Specifying Memory Dump Settings (Debug Information)

This section explains the procedures for collecting a memory dump (debug information) in the server.

ImportantWhen you restart the system to save the memory dump, a message
informing you that the system is short of virtual memory might appear.
Ignore this message and proceed with the restart. If you reset or restart the
system again, the memory dump might not be saved normally.

1. Right-click the left bottom of screen, and click System from the menu displayed.



2. Click Advanced system settings.

Settings		-	×
டை Home	About		
Find a setting			
System			
🖵 Display	Support		
	Manufacturer		
印) Sound	Website Online support		
Notifications & actions	Related settings		
J Focus assist	Device Manager		
O Power & sleep	Remote desktop		
Storage	System protection		
-	Advanced system settings		
- Tablet	Rename this PC (advanced)		
曰: Multitasking	Graphics settings		
Projecting to this PC			

3. In Startup and Recovery, click Settings....

System Properties X
Computer Name Hardware Advanced Remote
You must be logged on as an Administrator to make most of these changes. Performance Visual effects, processor scheduling, memory usage, and virtual memory
Settings
User Profiles
Desktop settings related to your sign-in
Settings
Startup and Recovery
System startup, system failure, and debugging information
Settings
Environment Variables
OK Cancel Apply

4. Type a file name to store the debug information in the **Dump file** text box, and then click **OK**.

Startup and Recovery	Х
System startup Default operating system: Windows Server Time to display list of operating systems: Time to display recovery options when needed: 30 seconds 30 seconds	
System failure Write an event to the system log Automatically restart Write debugging information Kernel memory dump	
Dump file: D:\MEMORY.DMP Overwrite any existing file Disable automatic deletion of memory dumps when disk space is low	
OK Cancel	

Note the following when specifying a dump file:

- We recommend specifying Kernel memory dump for Write debugging information.
- Specify a drive that has free space of "installed memory size + 400 MB"("installed memory size + 1,800 MB" when the installed memory size is 4TB or more) or more.
- The size of the debug information (memory dump) changes if DIMM is added. Make sure that the free space of the drive to store the debug information (memory dump) is sufficient.

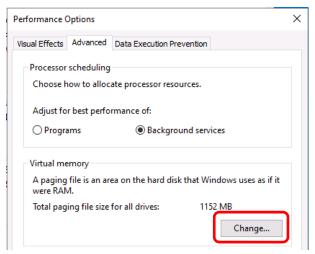
5. In Performance, click Settings.

System Properties	<
Computer Name Hardware Advanced Remote	
You must be logged on as an Administrator to make most of these changes. Performance Visual effects, processor scheduling, memory usage, and virtual memory Settings	
User Profiles Desktop settings related to your sign-in Settings	
Startup and Recovery	
System startup, system failure, and debugging information	
Settings	
Environment Variables	
OK Cancel Apply	

6. Click the **Advanced** tab on the **Performance Options** window.

Performance Options	×
Visual Effects Advanced Data Execution Prevention	
Select the settings you want to use for the appearance and performance of Windows on this computer.	
Let Windows choose what's best for my computer	
○ Adjust for best appearance	
○ Adjust for best performance	
O Custom:	
 Animate controls and elements inside windows Animate windows when minimizing and maximizing Animations in the taskbar Enable Peek Fade or slide menus into view Fade or slide ToolTips into view Fade out menu items after clicking Save taskbar thumbnail previews Show shadows under mouse pointer Show shadows under windows Show thumbnails instead of icons Show translucent selection rectangle Show window contents while dragging Slide open combo boxes 	

7. In Virtual memory, click Change....



8. Clear the Automatically manage paging file size for all drives check box,

and then click **Custom size**.

Virtual Memory	:	×
Paging file size for each		
Drive [Volume Label]	Paging File Size (MB) System managed	
Selected drive: Space available:	C: 21402 MB	
 Custom size: Initial size (MB): 		
Maximum size (MB):		
○ System managed siz	ze	
O No paging file	Set	
Total paging file size for	all drives	
Minimum allowed:	16 MB	
Recommended:	1151 MB	
Currently allocated:	1152 MB	
	OK Cancel	

 In Paging file size for each drive, enter the value equal or larger than the recommended value for Initial size, and the value larger than Initial size for Maximum size, and then click Set.

Virtual Memory		×
Automatically manage Paging file size for each	ge paging file size for all drives 1 drive	
Drive [Volume Label]	Paging File Size (MB)	
C:	System managed	
Selected drive:	C:	
Space available:	21402 MB	
Ocustom size:		
Initial size (MB):		
Maximum size (MD)		
Maximum size (MB):		
O System managed si	ze	
○ No paging file	Set	
Total paging file size for	r all drives	
Minimum allowed:	16 MB	
Recommended:	1151 MB	
Currently allocated:		
canonay anotated		
	OK Cance	al
	Calle	

Note the following when specifying a paging file size:

- The paging file is used to collect debug information (dump file). The boot volume must have a paging file of its initial size ("total size of physical memory" + 400 MB (total size of physical memory + 1,800MB when the total size is 4 TB or more) is enough to store the dump file. Make sure to specify a sufficient paging file size.
- See "System Partition Size" in *Chapter 1 (3.1 Precautions of Windows Server 2022 Installation)* for recommended value.
- When DIMM is added, re-specify the paging file according to the increased memory size.
- If an error occurs in setting the paging file to a drive exceeding 2TB, close [Virtual memory] and [Performance Options], and then set in the following way.

ex. Setting the paging file in drive C with 4096 MB as Initial size, 8192MB as Maximum size.

1. Start command prompt as Administrator and execute the following command.

wmic computersystem set AutomaticManagedPagefile=false
wmic pagefileset delete

- 2. Restart the Windows system.
- 3. Start command prompt as Administrator and execute the following command.

wmic pagefileset create name="C:\pagefile.sys"

wmic pagefileset set InitialSize=4096, MaximumSize=8192

4. Restart the Windows system.

10. Click **OK**.

If a message to restart Windows appears, restart the system according to on-screen message.

Specification of the memory dump settings is now complete.

4.2 How to Create a User-mode Process Dump File

The user-mode process dump file records information when an application error occurs.

If an application error occurs, get user-mode process dump information using the following procedures without closing the pop-up window that reported the error:

1. Right-click an empty area of the taskbar and then click **Task Manager** or press <Ctrl> + <Shift> + <Esc> keys to start Task Manager.

Rec	ycle Bin					
	Apps and Features					
	Power Options					
	Event Viewer					
	System					
	Device Manager					
	Network Connections					
	Disk Management					
	Computer Management					
	Windows PowerShell					
	Windows PowerShell (Admin)					
Π	Task Manager					
	Settings					
	File Explorer					
	Search					
	Run					
	Shut down or sign out >					
	Desktop				6.0.51	
	P Type here to search	⊟†	🔚 🔞		€ 441 PM	5

2. Click More details.

🕎 Task Manager	-		×
	There are no running apps		
⊘ More details		End ta	ask

- 3. Click the **Processes** tab.
- 4. Right-click the name of the process that you want to get dump information for, and then click **Create Dump File**.
- 5. A dump file for the process is created in the following folder:

C:\Users\(user name)\AppData\Local\Temp

tab.					
I I I File Home Share	View			- 0	× ≁ ?
Navigation pane - Panes	Extra large icons Large icons Medium icons Large icon	Sort by •	☐ Item check boxes ☐ Frie name external ns ☑ Hidden items Show/hide	Hide selected items	Options

Get the user-mode process dump file from the folder shown in step 5.

5. Backup of system information

After environment building, back up the setting information of the system in advance of any troubles.

- Back up system settings contained in system utility.
 See User's Guide (2. Description on System Utility) for details of system utility.
- Back up detail information of iLO 5.
 See " *iLO 5 User's Guide*" for details of procedure.



NEC Express5800 Series

Maintenance

This chapter explains maintenance of server, and what actions are to be taken in case of trouble when operating this server.

1. Failure Information

Describes how to collect the failure information. See this section in case of a failure.

2. Troubleshooting

Describes how to troubleshoot the server. See this section if you suspect a failure.

3. Windows System Recovery

Describes Windows recovery setup. See this section if the Windows is corrupt.

I. Failure Information

If the server does not work normally, you can collect failure information by using the following way.

The failure information to be described is to be collected only at the request of your sales representative.

Important Do not reset during dumping memory or restarting the server even if the message of virtual memory shortage appears.

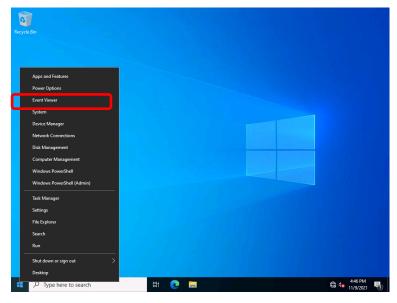
I.I Collecting Event Logs

To collect the various event logs of the server, follow the steps below.

Tips

If a STOP error, system error, or stall occurs, restart the system and then follow the steps below.

1. Right-click the left bottom of screen, and click Event Viewer from the menu displayed.



2. Select the type of log in Windows Logs.

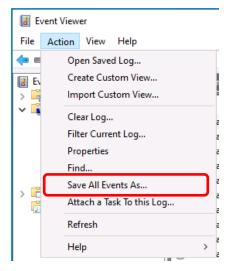
Application records events related to running applications.

Security records events related to security.

System records events that occur in Windows system components.

File Action View Help						_
🛃 Event Viewer (Local) > 📑 Custom Views	Windows Logs	Туре	Number of Events	Size	Actions Windows Logs	
Windows Logs Application Security Security Security Security System Forwarded Events Forwarded Events Applications and Services Lo Subscriptions	Application Security Setup System Forwarded Events	Administrative Administrative Operational Administrative Operational	16	1.07 MB 3.07 MB 68 KB 7.07 MB 0 Bytes	 Open Saved Log Create Custom View Import Custom View View Refresh Help 	1
					Application Open Properties Properties	-

3. Click Save All Events As... from Action menu.



- 4. Type the file name of the archived log in **File name**.
- 5. Select the type of the log file you want to save in **Save as type**, and then click **Save**.

1.2 Collecting Configuration Information

This section describes how to collect hardware information or configuration.

 Tips
 If a STOP error, system error, or stall occurs, restart the system and then follow the steps below.

1. Right-click the left bottom of screen, and click **Run** from the menu displayed.

0							
Recycl							
_							
	Apps and Features						
	Power Options						
	Event Viewer						
	System						
	Device Manager						
	Network Connections						
	Disk Management						
	Computer Management						
	Windows PowerShell						
	Windows PowerShell (Admin)						
-	Tel Mercer						
	Task Manager						
	Settings						
	File Explorer						
	Search						
	Run						
	Shut down or sign out						
	Desktop						
		H 💽			€ ∂ 4 8	4:50 PM 11/9/2021	5

2. Type msinfo32.exe, and then press <Enter> key.

💷 Run		×					
٨	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.						
<u>O</u> pen:	msinfo32.exe 🗸						
	This task will be created with administrative privileges.						
	OK Cancel <u>B</u> rowse]					

System Information starts.

- 3. Click **Export** from **File** menu.
- 4. Type a file name to save in File Name, and then Click Save.

1.3 Collecting User-Mode Process Dump

The user-mode process dump is the failure information related to application errors.

For details, see Chapter 1 (4.2 How to Create a User-Mode Process Dump File).

I.4 Collecting Memory Dump

If an error occurs, the dump file will be saved to get necessary information. You can specify any location for saving the diagnostic information. For details, see *Chapter 1 (4.1 Specifying Memory Dump Settings (Debug Information)*).

Consult with your sales representative before dumping the memory. Dumping the memory while the server is in operating normally will affect the system operation.

Important Do not reset during dumping memory or resetting the server even if the message of virtual memory shortage appears.

2. Troubleshooting

If this system does not operate as intended, check it according to the contents of your document before sending it for repair. If an item in the checklist corresponds with a problem you are experiencing, follow the processing instructions. The other contents check Maintenance Guide.

3. Windows System Recovery

Recover the Windows system by using the following instructions if the system does not work normally.

Note

- After recovering Windows, install drivers and the Starter Pack referring to Chapter 1 (3.4 Setup of Device Drivers) and Chapter1 (3.3 Standard Program Package Installation).
- If the Windows system cannot find hard disk drives, you cannot recover the Windows system.

3.1 Recovery of Windows Server 2022

If the Windows does not start normally, you can recover it using the feature of the Windows installation media. To run this feature, start the installation media, and then choose **Repair your computer** in the setup wizard. We recommend that this option is performed by the system administrator.

NEC Express5800 Series



1. List of Windows Event Logs Shows a list of Windows event logs.

1. List of Windows Event Logs

ID	Source	Level	Message (Description)
U	Timing when an event is logge	d	Action

All Windows OS

"System Log"

1	VDS Basic Provider	Error	Unexpected failure. Error code : 32@01000004
	At the time of a USB Device of	onnection	When it's at the time of a USB Device connection, it's no problem.
10	Smart Update Manager System Log	Warning	The description for Event ID 10 from source Smart Update Manager System Log cannot be found. Either the component that raises this event is not installed on your local computer or the installation is corrupted. You can install or repair the component on the local computer. If the event originated on another computer, the display information had to be saved with the event. The following information was included with the event: Disabling blocked firewall rules
	When applying Standard Program Package	<u>.</u>	This event may be registered when Firefall is enabled, but this does not affect system operation.
11	Elxfc	Error	The driver detected a controller error on Device\RaidPortX. (X is any number)
	When applying Standard Program Package		This event does not affect system operation.
51	Cdrom	Warning	Error detected on the device \Device\CdRom0 during the paging operation.
51	When installing an OS		This event may be registered in the event viewer, but this does not affect system operation.
56	Application Popup	Error	The description for Event ID 56 from source Application Popup cannot be found. Either the component that raises this event is not installed on your local computer or the installation is corrupted. You can install or repair the component on the local computer. If the event originated on another computer, the display information had to be saved with the event. The following information was included with the event: PCI XXXXXXXXXXXXXXXXXXX The message resource is present but the message was not found in the message table. * A different number replaces X depending on the connection status of LAN controller.
	When installing an OS, starting applying Starter Pack	g system, or	When multiple LAN controller are loaded it is registered, but does not affect system operation.

ID	Source	Level	Message (Description)
U	Timing when an event is logge	d	Action

All Windows OS "System Log"

56	Application Popup	Error	The description for Event ID 56 from source Application Popup cannot be found. Either the component that raises this event is not installed on your local computer or the installation is corrupted. You can install or repair the component on the local computer. If the event originated on another computer, the display information had to be saved with the event. The following information was included with the event: SCSI XXXXXXXXXXXXXXXXXXX The message resource is present but the message was not found in the message table. * A different number replaces X depending on the connection status of RAID controller and SAS controller.
	When installing an OS, starting system, or applying Starter Pack SmartPqi Warning		registered, but does not affect system operation. Reset was issued to the device \Device\RaidPort(x).
129	While the system is running		(x is any number) Even if the message is registered in the log, there is no problem because the OS has successfully completed the retry. You don't need any changes.
	Disk	Warning	Disk x is suddenly removed.
157	When creating a RAID		If you create new RAID on Windows, this event can be registered, but this does not affect the system operation.
1407	ESMCommonService	Error	This is the event which occurred between this system start-up and the last system stop or system shutdown. Date : YYYY-MM-DD hh:mm:ss Event Class : 0x11 Event Code : 0x0A Status : Critical Description : xxxxx Connectivity status changed to xxxxx for adapter in slot x, port x
	When starting system, or applying Standard Program	Package	This event does not affect system operation.
1407	ESMCommonService	Error	This is the event which occurred between this system start-up and the last system stop or system shutdown. Date : YYYY-MM-DD hh:mm:ss Event Class : 0x11 Event Code : 0x0C Status : Critical Description : Redundancy status changed to xxxxx by adapter in slot x, port x
	When starting system, or applying Standard Program Package		This event does not affect system operation.

Ī	D	Source	Level	Message (Description)
ID	U	Timing when an event is logged		Action

All Windows OS "System Log"

		1	
1407	ESMCommonService	Error	This is the event which occurred between this system start-up and the last system stop or system shutdown. Date : YYYY-MM-DD hh:mm:ss Event Class : 0x11 Event Code : 0x0D Status : Critical Description : All links are down in adapter xxxxx in slot x
	When starting system, or applying Standard Program Package		This event does not affect system operation.
4367	Agentless Management Service	Error	Description of Event ID 4367, IML Class Code 17, Event Code 13: All links are down in adapter xxxxx in slot xCheck the connection to the adapter and validate the connectivity from the server to any external device, including the cabling. If no problems are found, the adapter or other connectivity device may need replacement.
	When installing an OS, starting or applying Standard Program		This event does not affect system operation.
4367	Agentless Management Service	Error	Description of IML Event ID 4367, Class Code 17, Event Code 12: Redundancy status changed to decreased by adapter in slot x, port xlf redundancy decreased, check the connection to the adapter and validate the connectivity from the server to any external device, including the cabling. If no problems are found, the adapter or other connectivity device may need replacement
	When installing an OS, startin applying Standard Program Pa		This event does not affect system operation.
4367	Agentless Management Service	Error	Description of IML Event ID 4367, Class Code 17, Event Code 10: xxxxx Connectivity status changed to Link Failure for adapter in slot x, port xlf the connection is lost, then check the physical connection from the server to its destination device such as interconnect, blade, switch etc, including any cables. Refer to the NIC issues flowchart in the Troubleshooting Guide for more information.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
7000	Service Control Manager	Error	QLogic Fibre Channel Service service failed to start due to the following error: the system cannot find the file specified
	Applying Standard Program Pa	ackage	This event does not affect system operation.
37130	ESMCommonService	Error	Date : YYYY-MM-DD hh:mm:ss Event Class : 0x11 Event Code : 0x0A Status : Critical Description : xxxxx Connectivity status changed to xxxxx for adapter in slot x, port x
	When starting system, or applying Standard Program Package		This event does not affect system operation.

ID	Source	Level	Message (Description)
	Timing when an event is logged		Action

All Windows OS "System Log"

	1	
FONOrmanOrmica		Date : YYYY-MM-DD hh:mm:ss
		Event Class : 0x11
	Error	Event Code : 0x0C
Lowcommonservice	LIIOI	Status : Critical
		Description : Redundancy status changed to xxxxx by adapter
		in slot x, port x
When starting system,		This event does not affect system operation.
or applying Standard Program Package		
ESMCommonService	Error	Date : YYYY-MM-DD hh:mm:ss
		Event Class : 0x11
		Event Code : 0x0D
		Status : Critical
		Description : All links are down in adapter xxxxx in slot x
When starting system,		This work does not ff at an tank on the
or applying Standard Program Package		This event does not affect system operation.
	or applying Standard Program ESMCommonService When starting system,	When starting system, or applying Standard Program Package ESMCommonService Error When starting system,

ID	Source	Level	Message (Description)
U	Timing when an event is logged		Action

Windows Server 2022 "System Log"

		1	I
4	l2nd2	Warning	Marvell FastLinQ Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
4	l2nd2	Warning	Marvell FastLinQ Ethernet 10Gb 2-port BaseT QL41132HLRJ Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
	When installing an OS, startin applying Standard Program Pa		This event does not affect system operation.
4	l2nd2	Warning	Marvell FastLinQ Ethernet 10/25Gb 2-port SFP28 QL41232HLCU Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
	When installing an OS, startin applying Standard Program Pa		This event does not affect system operation.
	SmartPqi	Warning	Reset was issued to the device \Device\RaidPort(x). (x is any number)
129	While the system is running		Even if the message is registered in the log, there is no problem because the OS has successfully completed the retry. You don't need any changes.
134	Microsoft-Windows-Time- Service	Warning	NtpClient was unable to set a manual peer to use as a time source because of DNS resolution error on 'time.windows.com,0x1'. NtpClient will try again in 15 minutes and double the reattempt interval thereafter. The error was: No such host is known. (0x80072AF9)
	While the system is running		This event does not affect system operation if it is not recorded after connecting to the internet.
	Disk	Warning	Disk x is suddenly removed.
157	When creating a RAID		If you create new RAID on Windows, this event can be registered, but this does not affect the system operation.
225	Kernel-PnP	Warning	The application YYY with process id XXX stopped the removal or ejection for the device ZZZ. * ZZZ : Instance name of the device YYY : Name of the process that was using the device XXX : ID of the process that was using the device
	When applying Standard Program Package	·	This event does not affect system operation.
	Service Control Manager	Error	"xxxxxxx service terminated with the following error: A device attached to the system is not functioning."
7023	When running an OS for the first time		This event does not affect system operation if it is recorded only on the first startup and not recorded repeatedly.

	D	Source	Level	Message (Description)
ID	U	Timing when an event is logged		Action

Windows Server 2022 "System Log"

7030	Service Control Manager	Error	The Printer Extensions and Notifications service is marked as an interactive service. However, the system is configured to not allow interactive services. This service may not function properly.
	When running an OS for the first time		This event does not affect system operation if it is recorded only or the first startup and not recorded repeatedly.
10010	Microsoft-Windows- DistributedCOM	Error	The server {XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	While the system is running		This event does not affect system operation.
10016	Microsoft-Windows- DistributedCOM	Warning	The application-specific permission settings do not grant Loca Launch permission for the COM Server application with CLSID {************************************
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
	Microsoft-Windows- WinRM	Warning	The WinRM service is not listening for WS-Management requests.
10149	When restarting an OS		There is no problem to ignore it when WinRM event 10148 (The WinRM service is not listening for WS-Management requests.) is registered after soon.

	П	Source	Level	Message (Description)
ID	U	Timing when an event is logged		Action

Windows Server 2022 "Application Event Log"

	Microsoft-Windows-Certificate ServicesClient-CertEnroll	Error	SCEP Certificate enrollment initialization for XXXXXXXX via
			https://IFX-KeyId-5d0815951f5f60638a69e7252f3ec4becd7554b2.m
86			icrosoftaik.azure.net/templates/Aik/scep
	When starting system.		This event does not affect system operation. This event may be registered on the system that TPM is installed and has no connectivity to the internet.
1015	Microsoft-Windows- Security-SPP	Error	Detailed HRESULT. Returned hr=0xC004F022, Original hr=0x*******
1013	When restarting an OS		This event does not affect system operation if it is not recorded repeatedly after activating the Windows.
	EvntAgnt	Warning	Error opening event log file Parameters. Log will not be processed.
3007			Return code from OpenEventLog is 87.
	When SNMP is effective		Every restarting it's registered, it's no problem.
	EvntAgnt	Warning	Error opening event log file State. Log will not be processed. Return
3007			code from OpenEventLog is 87.
	When SNMP is effective		Every restarting it's registered, it's no problem.
			License Activation (slui.exe) failed with the following error code:
	Microsoft-Windows-	Frror	hr=0x*******
0400	Security-SPP	Enor	Command-line arguments:
8198			RuleId=************************************
	When restarting an OS		This event does not affect system operation if it is not recorded repeatedly after activating the Windows.

ID	Source	Level	Message (Description)
	Timing when an event is logged		Action

Windows Server 2022 "Applications and Services Logs"

21	Microsoft-Windows- AppModel-Runtime	Error	CreateAppContainerProfile failed for AppContainer onecore\ds\security\gina\profile\profext\appcontainer.cpp Line:1862 Usermode Font Driver Host microsoft.windows.fontdrvhost with error 0x8007000A.
	When installing an OS		This event does not affect system operation if it is not recorded repeatedly.
66	Microsoft-Windows- AppModel-Runtime	Error	Failed with 0x57 retrieving AppModel Runtime status for package Windows for user ********.
00	When installing an OS		This event does not affect system operation if it is recorded only on the first startup and not recorded repeatedly.
200	Microsoft-Windows- DeviceSetupManager	Warning	A connection to the Windows Update service could not be established.
200	While the system is running		This event does not affect system operation if it is not recorded after connecting to the internet.
201	Microsoft-Windows- DeviceSetupManager	Warning	A connection to the Windows Metadata and Internet Services (WMIS) could not be established.
201	While the system is running		This event does not affect system operation if it is not recorded after connecting to the internet.
202	Microsoft-Windows- DeviceSetupManager	Warning	The Network List Manager reports no connectivity to the internet.
202	While the system is running		This event does not affect system operation if it is not recorded after connecting to the internet.
215	Microsoft-Windows- AppReadiness	Error	Failed with 0x57 retrieving AppModel Runtime status for package Windows for user *********.
	When installing an OS		This event does not affect system operation if it is recorded only on the first startup and not recorded repeatedly.
360	Microsoft-Windows-User Device Registration	Warning	Windows Hello for Business provisioning will not be launched. Device is AAD joined (AADJ or DJ++): Not Tested User has logged on with AAD credentials: No Windows Hello for Business policy is enabled: Not Tested Windows Hello for Business post-logon provisioning is enabled: Not Tested Local computer meets Windows hello for business hardware requirements: Not Tested User is not connected to the machine via Remote Desktop: Yes User certificate for on premise auth policy is enabled: Not Tested Machine is governed by none policy.
	When restarting an OS		There is no problem when it occurs at the environment that is not registered to Microsoft Azure AD.

Revision Record

Document Number	Date	Notes
CBZ-002473-258-00	December 2021	The first edition