

Installation Guide (Windows Server 2022)

NEC Express Server Express5800 Series

Express5800/R120i-1M, R120i-2M Express5800/R120h-1M, R120h-1M (2nd-Gen), R120h-1M (3rd-Gen) Express5800/R120h-2M, R120h-2M (2nd-Gen), R120h-2M (3rd-Gen) Express5800/R120h-1E Express5800/R120h-2E Express5800/T120h

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

EXPRESSBUILDER E8.10-010.06 Starter Pack S8.10-010.08

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Introduction

Thank you for purchasing our product.

When using the EXPRESSBUILDER / Starter Pack version, see this manual before installing Windows.

Supported versions is as follows.

EXPRESSBUILDER	E8.10-010.06	(3.86.5)
Starter Pack	S8.10-010.08	

Please read the instructions carefully 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 OS 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	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	
Express5800/R120h-1M, R120h-1M (2nd-Gen), R120h-1M (3rd-Gen)	
Express5800/R120h-2M, R120h-2M (2nd-Gen), R120h-2M (3rd-Gen)	
Express5800/R120h-1E	
Express5800/R120h-2E	

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Latest editions

This document was created based on the information available at the time of its creation. The screen images, messages and procedures are subject to change without notice. Substitute as appropriate when content has been modified.

The most recent version of this guide, as well as other related documents, is also available for download from the following website.

https://www.nec.com/

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.

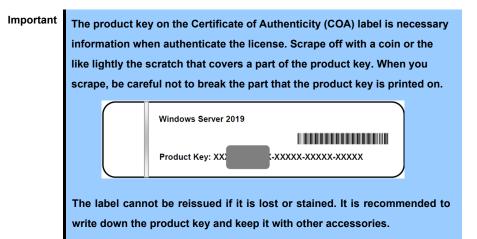
- Flow of Windows Installation
 Describes the flow chart of Windows installation.
- Installing Windows Server 2022
 Describes how to install Windows Server 2022.
- Setting up for Maintenance
 Describes the features that should be set up for maintenance in advance.

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.
- 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 or re-install the OS.

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.

EB : Rapid Setup S : Manual installation						
	Boot	mode	Installation method			
Name of Windows OS		UEFI	Legacy	EB	OS	
Windows Server 2022 *	Standard	~	N/A	√	~	
Windows Server 2022	Datacenter	~	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.

(1) Express5800/R120i-1M, R120i-2M

			R120i-1M	R120i-2M
RAID cont	troller	supporting the installation of OS		
N81	03-189	RAID Controller (RAID 0/1)	✓	✓
N81	03-190	RAID Controller (2GB, RAID 0/1/5/6)	\checkmark	✓
N81	03-191	RAID Controller (4GB, RAID 0/1/5/6)	\checkmark	~
N81	03-192	RAID Controller (RAID 0/1)	\checkmark	N/A
N81	03-193	RAID Controller (2GB, RAID 0/1/5/6)	✓	N/A
N81	03-194	RAID Controller (4GB, RAID 0/1/5/6)	~	N/A
N81	03-195	RAID Controller (RAID 0/1)	~	✓
N81	03-201	RAID Controller (2GB, RAID 0/1/5/6)	~	✓
N81	03-237	RAID Controller (4GB, RAID 0/1/5/6)	~	✓
N81	03-238	RAID Controller (8GB, RAID 0/1/5/6)	~	✓
N81	03-239	480GB SSD Adapter for OS Boot (RAID 1)	~	✓
Other opt	ions			
N81	03-184/	E184 SAS Controller	~	✓
N81	03-197	SAS Controller	✓	✓
N81	90-163	Fibre Channel Controller (1ch)	✓	✓
N81	90-164	Fibre Channel Controller (2ch)	~	✓
N81	90-165	Fibre Channel Controller (1ch)	~	✓
N81	90-166	Fibre Channel Controller (2ch)	~	✓
N81	90-171	Fibre Channel Controller (1ch)	~	✓
N81	90-172	Fibre Channel Controller (2ch)	\checkmark	✓
				V: Supported

(2) Express5800/R120h-1M, R120h-2M (2nd-Gen) (3rd-Gen)

		R120h-1M	R120h-2M	R120h-1M (2nd-Gen)	R120h-2M (2nd-Gen)	R120h-1M (3rd-Gen)	R120h-2M (3rd-Gen)
AID controller support	ing the installation of OS						
Onboard RAID Con	troller	✓	~	✓	~	✓	~
N8103-189 RAID	Controller (RAID 0/1)	✓	✓	√	√	\checkmark	~
N8103-190 RAID	Controller (2GB, RAID 0/1/5/6)	~	~	✓	~	✓	~
N8103-191 RAID	Controller (4GB, RAID 0/1/5/6)	✓	~	\checkmark	✓	\checkmark	~
N8103-192 RAID	Controller (RAID 0/1)	✓	N/A	\checkmark	N/A	\checkmark	N/A
N8103-193 RAID	Controller (2GB, RAID 0/1/5/6)	✓	N/A	✓	N/A	\checkmark	N/A
N8103-194 RAID	Controller (4GB, RAID 0/1/5/6)	✓	N/A	\checkmark	N/A	\checkmark	N/A
N8103-195 RAID	Controller (RAID 0/1)	~	✓	√	~	✓	~
N8103-201 RAID	Controller (2GB, RAID 0/1/5/6)	~	✓	√	~	✓	~
N8103-239 480GI	3 SSD Adapter for OS Boot (RAID 1)	N/A	N/A	N/A	N/A	✓	~
her options							
N8103-196 RAID	Controller (2GB, RAID 0/1/5/6)	~	✓	√	✓	√	~
N8103-184/E184	SAS Controller	✓	✓	✓	✓	✓	✓
N8103-197 SAS (Controller	~	~	\checkmark	√	\checkmark	~
N8190-163 Fibre	Channel Controller (1ch)	~	√	\checkmark	✓	\checkmark	~
N8190-164 Fibre	Channel Controller (2ch)	~	~	✓	✓	✓	~
N8190-165 Fibre	Channel Controller (1ch)	~	~	~	✓	✓	~
N8190-166 Fibre	Channel Controller (2ch)	~	~	✓	✓	~	~
N8190-171 Fibre	Channel Controller (1ch)	~	✓	✓	✓	✓	~
N8190-172 Fibre	Channel Controller (2ch)	✓	~	~	~	\checkmark	✓

(3) Express5800/R120h-1E, R120h-2E

		R120h-1E	R120h-2E
AID controlle	er supporting the installation of OS		
Onboard R	AID Controller	\checkmark	\checkmark
N8103-189	RAID Controller (RAID 0/1)	N/A	✓
N8103-190	RAID Controller (2GB, RAID 0/1/5/6)	N/A	~
N8103-191	RAID Controller (4GB, RAID 0/1/5/6)	N/A	N/A
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	N/A
N8103-195	RAID Controller (RAID 0/1)	\checkmark	✓
N8103-201	RAID Controller (2GB, RAID 0/1/5/6)	\checkmark	✓
ther options			
N8103-196	RAID Controller (2GB, RAID 0/1/5/6)	\checkmark	✓
N8103-197	SAS Controller	\checkmark	✓
N8190-163	Fibre Channel Controller (1ch)	\checkmark	\checkmark
N8190-164	Fibre Channel Controller (2ch)	√	\checkmark
N8190-165	Fibre Channel Controller (1ch)	✓	✓
N8190-166	Fibre Channel Controller (2ch)	\checkmark	~
N8190-171	Fibre Channel Controller (1ch)	√	~
N8190-172	Fibre Channel Controller (2ch)	✓	✓

(4) Express5800/T120h

		T120h
RAID controlle	r supporting the installation of OS	
Onboard I	RAID Controller	✓
N8103-18	9 RAID Controller (RAID 0/1)	✓
N8103-19	0 RAID Controller (2GB, RAID 0/1/5/6)	✓
N8103-19	1 RAID Controller (4GB, RAID 0/1/5/6)	✓
N8103-19	2 RAID Controller (RAID 0/1)	N/A
N8103-19	3 RAID Controller (2GB, RAID 0/1/5/6)	N/A
N8103-19	4 RAID Controller (4GB, RAID 0/1/5/6)	N/A
N8103-19	5 RAID Controller (RAID 0/1)	\checkmark
N8103-20	1 RAID Controller (2GB, RAID 0/1/5/6)	√
Other options		
N8103-19	6 RAID Controller (2GB, RAID 0/1/5/6)	✓
N8103-19	7 SAS Controller	✓
N8190-16	3 Fibre Channel Controller (1ch)	✓
N8190-16	4 Fibre Channel Controller (2ch)	√
N8190-16	5 Fibre Channel Controller (1ch)	✓
N8190-16	6 Fibre Channel Controller (2ch)	✓
N8190-17	1 Fibre Channel Controller (1ch)	✓
N8190-17	2 Fibre Channel Controller (2ch)	√

1.4 Supported Optional LAN board

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

(1) Express5800/R120i-1M, R120i-2M

		R120i-1M	R120i-2M
rt 1000BASE-T LOM Card		\checkmark	\checkmark
t 10GBASE-T LOM Card		✓	√
t 10/25GBASE SFP+ LOM Card		\checkmark	✓
rt 1000BASE-T Adapter		\checkmark	\checkmark
t 10GBASE-T Adapter		\checkmark	√
t 10/25GBASE SFP28 Adapter		\checkmark	\checkmark
t 10/25GBASE SFP28 Adapter		\checkmark	\checkmark
t 10GBASE-T LOM Card		\checkmark	✓
t 10GBASE-T Adapter		~	✓
	10GBASE-T LOM Card 10/25GBASE SFP+ LOM Card t 1000BASE-T Adapter 10GBASE-T Adapter 10/25GBASE SFP28 Adapter 10/25GBASE SFP28 Adapter 10GBASE-T LOM Card	10GBASE-T LOM Card 10/25GBASE SFP+ LOM Card t 1000BASE-T Adapter 10GBASE-T Adapter 10/25GBASE SFP28 Adapter 10/25GBASE SFP28 Adapter 10/25GBASE SFP28 Adapter	t 1000BASE-T LOM Card \checkmark 10GBASE-T LOM Card \checkmark 10/25GBASE SFP+ LOM Card \checkmark t 1000BASE-T Adapter \checkmark 10GBASE-T Adapter \checkmark 10/25GBASE SFP28 Adapter \checkmark 10/25GBASE SFP28 Adapter \checkmark

(2) Express5800/R120h-1M, R120h-2M (2nd-Gen) (3rd-Gen)

		R120h-1M	R120h-2M	R120h-1M (2nd-Gen)	R120h-2M (2nd-Gen)	R120h-1M (3rd-Gen)	R120h-2M (3rd-Gen)
N8104-171	Quad Port 1000BASE-T LOM Card	✓	✓	✓	✓	N/A	N/A
N8104-172	Quad Port 1000BASE-T LOM Card	~	~	~	~	~	✓
N8104-173	Dual Port 10GBASE-T LOM Card	~	~	✓	~	N/A	N/A
N8104-175	Dual Port 10GBASE-T LOM Card	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	~
N8104-176	Dual Port 10GBASE SFP+ LOM Card	✓	✓	✓	✓	N/A	N/A
N8104-177	Dual Port 25GBASE SFP+ LOM Card	~	~	~	~	N/A	N/A
N8104-178	Dual Port 1000BASE-T Adapter	~	~	~	~	✓	~
N8104-179	Quad Port 1000BASE-T Adapter	~	~	✓	~	~	✓
N8104-180	Dual Port 1000BASE-T Adapter	✓	~	✓	✓	✓	✓
N8104-181	Quad Port 1000BASE-T Adapter	~	~	✓	~	~	✓
N8104-182	Dual Port 10GBASE-T Adapter	✓	~	✓	✓	✓	✓
N8104-183	Dual Port 10GBASE-T Adapter	✓	✓	✓	~	✓	~
N8104-184	Dual Port 10GBASE-T Adapter	~	~	~	~	✓	~
N8104-185	Dual Port 10GBASE SFP+ Adapter	~	~	~	~	✓	~
N8104-186	Dual Port 10GBASE SFP+ Adapter	\checkmark	✓	\checkmark	✓	✓	~
N8104-187	Dual Port 25GBASE SFP28 Adapter	✓	✓	~	✓	✓	~
N8104-213	Dual Port 10GBASE-T LOM Card	N/A	N/A	N/A	N/A	✓	~
N8104-215	Dual Port 10GBASE-T Adapter	N/A	N/A	N/A	N/A	✓	✓

(3) Express5800/R120h-1E, R120h-2E

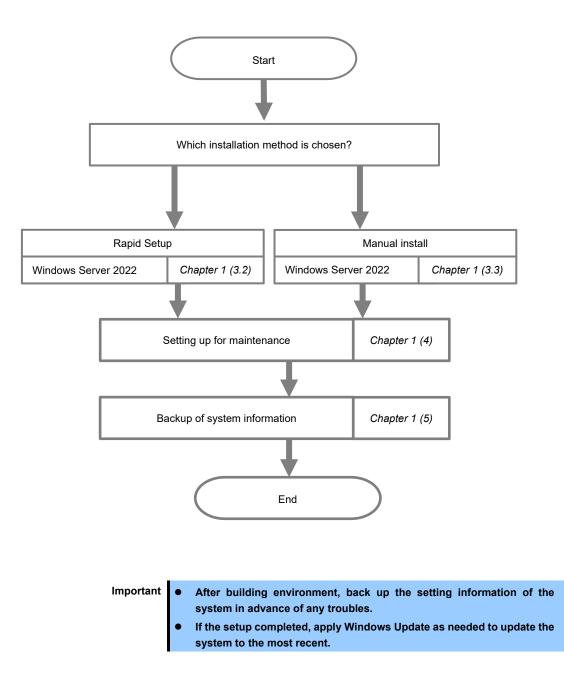
		R120h-1E	R120h-2E
N8104-171	Quad Port 1000BASE-T LOM Card	\checkmark	✓
N8104-172	Quad Port 1000BASE-T LOM Card	✓	✓
N8104-173	Dual Port 10GBASE-T LOM Card	✓	\checkmark
N8104-175	Dual Port 10GBASE-T LOM Card	\checkmark	\checkmark
N8104-176	Dual Port 10GBASE SFP+ LOM Card	\checkmark	\checkmark
N8104-177	Dual Port 25GBASE SFP+ LOM Card	\checkmark	\checkmark
N8104-178	Dual Port 1000BASE-T Adapter	\checkmark	\checkmark
N8104-179	Quad Port 1000BASE-T Adapter	\checkmark	\checkmark
N8104-180	Dual Port 1000BASE-T Adapter	✓	\checkmark
N8104-181	Quad Port 1000BASE-T Adapter	✓	✓
N8104-182	Dual Port 10GBASE-T Adapter	✓	✓
N8104-183	Dual Port 10GBASE-T Adapter	✓	✓
N8104-184	Dual Port 10GBASE-T Adapter	✓	✓
N8104-185	Dual Port 10GBASE SFP+ Adapter	✓	✓
N8104-186	Dual Port 10GBASE SFP+ Adapter	✓	✓
N8104-187	Dual Port 25GBASE SFP28 Adapter	✓	✓
N8104-193	Dual Port 1000BASE-T LOM Card	\checkmark	✓
N8104-194	Dual Port 10GBASE-SR LOM Card	\checkmark	✓
N8104-195	Dual Port 10GBASE-T LOM Card	\checkmark	✓
N8104-215	Dual Port 10GBASE-T LOM Card	N/A	N/A

(4) Express5800/T120h

		T120h
N8104-178	Dual Port 1000BASE-T Adapter	~
N8104-179	Quad Port 1000BASE-T Adapter	✓
N8104-180	Dual Port 1000BASE-T Adapter	~
N8104-181	Quad Port 1000BASE-T Adapter	~
N8104-182	Dual Port 10GBASE-T Adapter	\checkmark
N8104-183	Dual Port 10GBASE-T Adapter	~
N8104-184	Dual Port 10GBASE-T Adapter	~
N8104-185	Dual Port 10GBASE SFP+ Adapter	~
N8104-186	Dual Port 10GBASE SFP+ Adapter	~
N8104-187	Dual Port 25GBASE SFP28 Adapter	~
N8104-215	Dual Port 10GBASE-T Adapter	N/A

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.

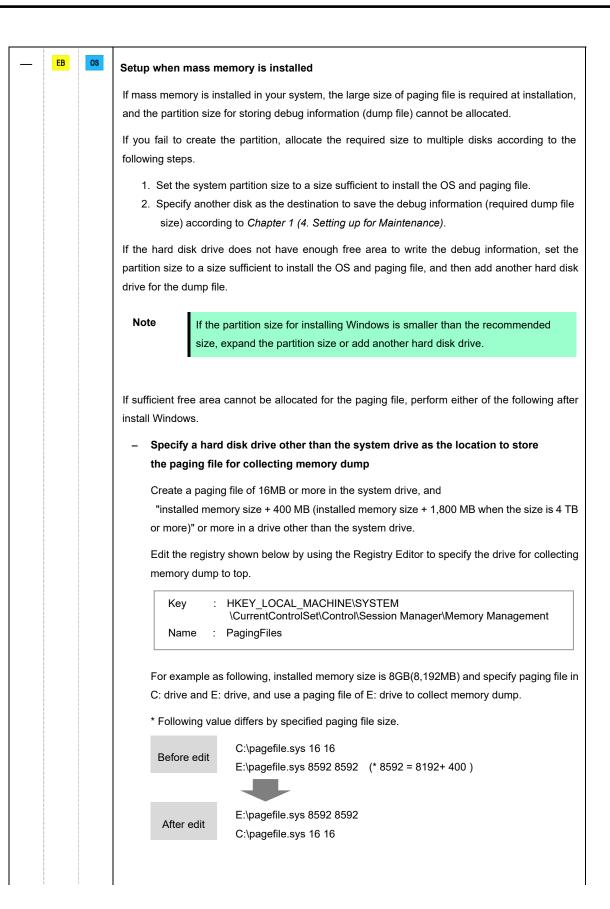


: Rapid Setup

: Manual Installation

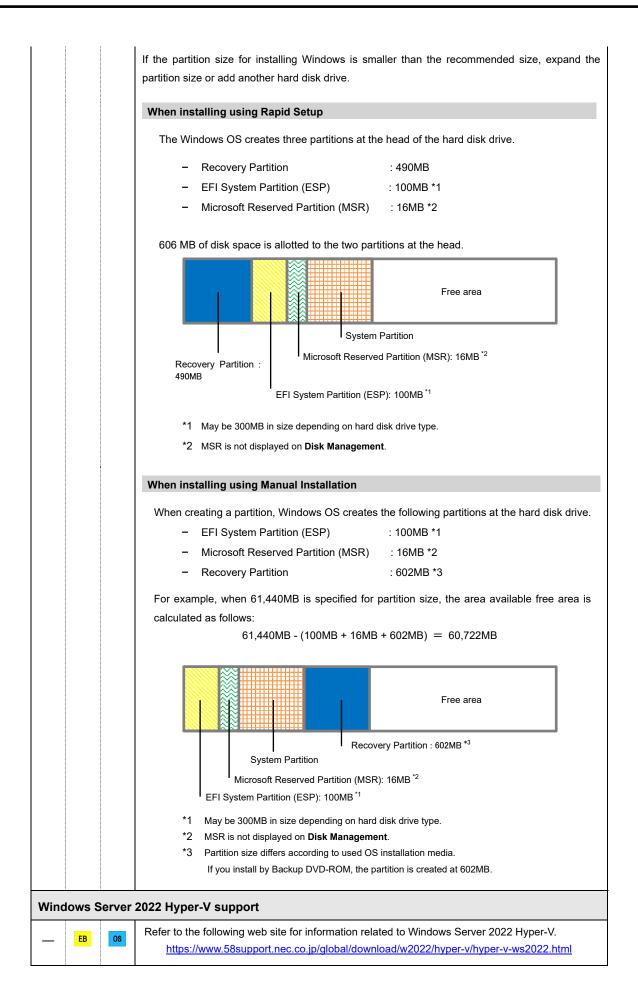
BIOS	6 settir	ng	
_	EB	08	Change Boot Mode to UEFI Mode . For details, see <i>Chapter 2 (1. System Utilities)</i> in <i>Maintenance Guide.</i>
			System Configuration > BIOS/Platform Configuration (RBSU) > Boot Options > Boot Mode > UEFI Mode
_	EB	OS	Select Enabled for x2APIC feature of processor. For 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
_	EB	08	R120h-1M, R120h-2M, R120h-1E, R120h-2E, T120h Change time format to the Local Time. For details, see <i>Chapter 2 (1. System Utilities)</i> in <i>Maintenance Guide.</i> System Configuration > BIOS/Platform Configuration (RBSU) > Date and time > Time Zone : Unspecified Time Zone
_	EB	OS	<u>R120h-1M, R120h-2M, R120h-1E, R120h-2E, T120h</u> Change time format to the Local Time. For details, see <i>Chapter 2 (1. System Utilities)</i> in <i>Maintenance Guide.</i> System Configuration > BIOS/Platform Configuration (RBSU) > Date and time > Time Format : Local Time
_	EB	08	R120i-1M, R120i-2M, R120h-1M (2nd-Gen) / (3rd-Gen), R120h-2M (2nd-Gen) / (3rd-Gen) 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)
_	EB	08	R120i-1M, R120i-2M, R120h-1M (2nd-Gen) / (3rd-Gen), R120h-2M (2nd-Gen) / (3rd-Gen) 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

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Dee	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	
f	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	
lf yc	ou close setting screen of paging file with [OK] button, registry value above will	be
char	nged although you do not change settings.	
Ope	ning setting screen of paging file before editing registry or after editing it,	
is ur	nrelated.	
Whe	en registry value is changed, you need to edit again manualy, and then need	to
resta	en registry value is changed, you need to edit again manualy, and then need art system to reflect settings. cify a drive other than the system drive for "Dedicated Dump File".	to
resta – Spe Cre	art system to reflect settings.	
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System partition size				
_ E	EBOS	The system partition size	can be calculated by using the following formula.	
		Size required to install	he OS + paging file size + dump file size + application size	
		Desktop Experience		
		Size required to ins	all the OS = 15,900 MB	
			ommended) = 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 ins	all the OS = 10,700MB	
		Paging file size (rec	,	
		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	
			nce : 32,768MB(32GB) or more : 32,768MB(32GB) or more	
		system no una Install • The ab informa must b Make s insuffic inability • Regard maxim memor • When i	ows Server 2022, a recovery partition will be created after the partition. The system partition can not be extended because there is located area behind the system partition. Vindows OS within sufficient partition size. ove paging file sizes are recommended for collecting debug tion (dump file). The initial size of the Windows partition paging file e large enough to store dump files. ure you set a sufficient paging file size. If the paging file is ent, there will be a virtual memory shortage that may result in an to collect correct debug information. less of the sizes of internal memory and write debug information, the im size of the dump file is "installed memory size + 400 MB (installed y size + 1,800 MB when installed memory size is 4 TB or more)". installing other applications or other items, add the amount of space by the application to the partition.	



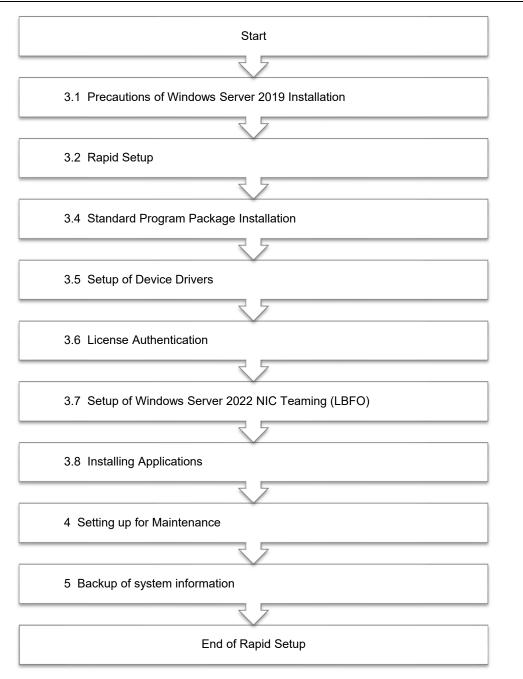
Using BitLocker				
EB	Be sure	 If using BitLocker, note the following. Be sure to keep the recovery password secure. Do not keep it near a server running BitLocker. 		
		If the recovery password is not entered, the OS cannot be started, and the content of the partition encrypted by BitLocker cannot be referenced any more. The recovery password might be required at startup of the OS after the following: Replacement of motherboard Change of BIOS setting Initialization of trusted platform module (TPM) * * Depending on your system, it may not be supported. Refer to the Instruction Manuals about hardware. all the operating system into a partition that is encrypted with BitLocker, delete the -encrypted partition prior to reinstallation.		
Using Micros	soft(R) Secured-c			
E8	When using For details, System Co	R120i-1M, R120i-2M When using Microsoft(R) Secured-core, set the following settings. For details, see Chapter 1 (1. System Utilities) in Maintenance Guide (Common). System Configuration > BIOS/Platform Configuration (RBSU) > Server Security > Microsoft(R) Secured-core Support > [Enabled]		
Support for N	NIC teaming in Wi	ndows Server 2022		
EB	built into Wir balancing and	ning feature, which used to be provided by network interface card (NIC) vendors, is adows Server 2022. In Windows Server 2022, this feature is also called "load d failover (LBFO)". <i>pter 1 (3.7 Setup of Windows Server 2022 NIC Teaming (LBFO)</i> and specify any ngs.		
Installing bur	ndled software			
Apply Windo	ws Update			
ЕВ	If the setup of recent.	completed, apply Windows Update as needed to update the system to the most		

3.2 Rapid Setup

This section describes how to install Windows Server 2022 with Rapid Setup.

Important
Setup will delete all data of the hard disk drive.
Disconnect hard disk drives from the RAID controller that is not to be setup.

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)
 - $\rightarrow\,$ The Starter Pack which supports Windows Server 2022 is "S8.10-010.08". Download it from Web site.

3.2.3 Installation procedure

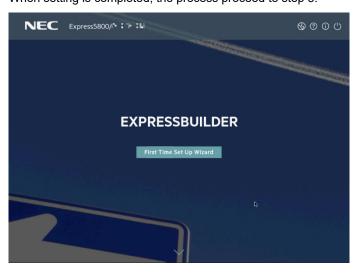
Note

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

- 1. Turn on peripherals (such as a display), and then turn on the server.
- 2. To run EXPRESSBUILDER, press <F10> key during POST.

Provisioning
Smart Storage Administrator
Server Hardware Diagnostics UEFI
Server Hardware Diagnostics Full Test
The highlighted entry will be executed automatically in 12s.

Only when running an OS for the first time, operating environment of EXPRESSBUILDER is set. When the following screen appears, click "First Time Set Up Wizard". When setting is completed, the process proceed to step 3.



For details of EXPRESSBUILDER and "First Time Set Up Wizard", see *Chapter 2 (Deltails of EXPRESSBUILDER) in Maintenance Guide*.

3. The next screen is displayed, click Rapid Setup.

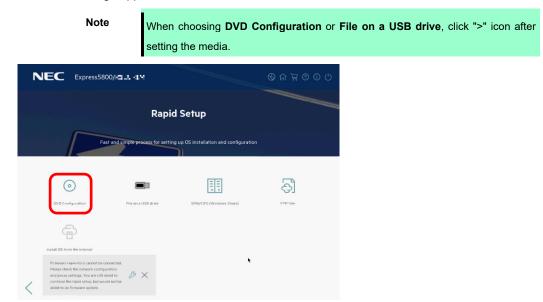
NEC Express5800/¬I: 14		\$ ⋒ \ ? @ © U
EXPRESS	BUILDER	
Rapid Setup	Perform Maintenance	
	k	

4. When the following window appears, click Skip.

$\partial^{\Theta_{-}}$. Web Proxy Settings		×	
Does your server need a web prox proxy configuration below first if i		et? Enter the web	
Web Proxy Server *		Port	
Web Proxy Server		Port Solo	
	Skip	connect	

5. Select DVD Configuration.

When the message appears in the lower left of the screen, click "×" to close it.



Choose an OS installation source from the following types.

DVD Configuration	DVD-ROM
File on a USB drive	USB flash drive
SMB/CIFS (Windows Share)	Network sharing folder
FTP Site	This option is not available.
Install OS from the internet	This option is not available.

Each media supports the following file format.

File on a USB drive	Flat, ISO
SMB/CIFS (Windows Share)	Flat, ISO

Flat: a standard folder/file structure

ISO: single ISO or UDF file

Choose an OS source media depending on the media type.

DVD Configuration	Automatically detects on OS installation media. If the detection fails, try again.
File on a USB drive	Choose OS installation file on USB flash drive connected. Supports only a USB drive formatted with FAT or exFAT format.
SMB/CIFS (Windows Share)	Set the network settings of network sharing that includes OS installation file, and then choose OS installation file after connecting the network sharing. Server Name/IP Address Share Name Domain Name Network Share User Network Share Password Confirm Password

When you select "DVD Configuration" and connected multiple optical disk drive, next screen is displayed. Select the optical disk drive in which the OS installation media was inserted. Click **connect** of the lower right of the screen.

NEC	Express5800/	H2 61	
	ැඩි DVD Configu	ration	×
	2 DVD-ROM M	edia	
	۲	hp_DVD-ROM_DUDON /dev/sr0 Microsoft Windows Server ** #Standard (Desktop Experience)	<u>5</u>]
DVD Cont	0	HPE DVDRW_GP70N /dev/sr1 not found	TP Site
Install OS from		k con	nect
<			

6. Mounted RAID controller is automatically recognized. Wait until installation completes.

NEC	Express5800/F" "L. 1	\$ @ ` ₽ @ 0 ()
RSS > Preparing Con	figuration	
Summary and Instal	1	
View/Edit Details:	Preparing a recommended RAID configuration .	
	С	
	Cancel	
	*	
<		

- When the RAID system is not configured.

EXPRESSBUILDER configures RAID system automatically. RAID system configuration can be changed from "Storage controllers" setting screen of Step 7.

- When the RAID system is already configured.

EXPRESSBUILDER do not configure RAID system.

When the next screen is displayed, confirm the contents and proceed.

SS > Preparing Configuration	
Summary and Install	
View/Edit Details: OS Settings	Rapid Setup is not able to create a recommended array settings since the system found the detected RAID controller contain at least one lookcut drive.
Storage Controllers	- Click "Continue" and Rapid Setup will prepare the rest of the
OS Volume Partitions	configurations except a recommended array settings. Alternatively, you can select to manually configure RAID from the Rapid Setup Dissibilized.
Firmware Update	Click "Exit" If you wish to cancel the preparation and return to EXPRESSBUILDER.
	Exit

7. Click menu of left pane or edit button on the item you want to edit to confirm and modify details.

After completion, click Accept Configuration to start installation.

NEC Expre	ss5800/ F_1)+ _}	\$ A H O O U
RSS > Summary and Install		
Summary and Install		Accept Configuration
View/Edit Details: OS Settings	OS Settings 🖉	
Storage Controllers	Media Source: DVD-ROM Media Operating System: Microsoft Windows Server 🕅 "Standard (Des	ktop Experience)
Firmware Update	Storage Controllers 🖉	
	Boot Controller: • IF + F Car = • • • F CB = DC 2. 101 • OS Drive • 1000 GB RAID1 (SATA HDD)	×
	OS Volume Partitions 🖉	
	Use Recommended Partition: Yes	
<	Firmware Update 🖉	

Tips

When you configure RAID system from EXPRESSBUILDER, the system reboots automatically after clicking **Accept Configuration**. After reboot, EXPRESSBUILDER starts automatially and resumes from the next procedure. Wait a moment without any operation.

Confirm the settings and specify any required settings.

OS Setting

- On the following "Operating System", specify settings for the OS installation.
- Password can be used alphanumeric characters only.
 If a sign (such as "!") is included, an error message will appear.
- Set your time zone.
- You can enable the functions of Windows, if necessary.

Install the HyperV role on this system	The Hyper-V role can be Enabled.
Enable Windows Firewall	Windows Firewall can be Enabled.

Storage controller

• Choose the RAID controller of installation destination.

Partition of the OS volume

- Specify the any partition size, and then remove the choice of Use Recommended Partition.
 Enter the partition size of Basic data partition to installation destination (Unit: MB *), or specify it with percentage. The following partitions cannot be changed.
 - Recovery
 - EFI system partition
 - Microsoft reserved partition
- When choosing Use Recommended Partition, the OS is installed using all area of a hard disk drive.

• Select hard disk drive (logical drive) to install OS.

Important	You can confirm name of hard disk drives (e.g.: Logical Drive 1) from
	"Storage controllers" setting screen.
	If you select wrong hard disk drive as OS destination drive(logical drive),
	existing data may be cleared unexpectedly.
	Be careful when you select hard disk drive for installation.
B	

Firmware Update

- This feature is the reservations in future.
- 8. When copying is complete, the system restart automatically.

fiewer	
	*
rver Status	
3 Server has booted	
b Status	
Express OS Install Copying (592)	

9. Confirm the license terms.

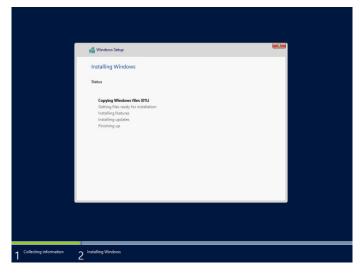
Click I accept the license terms if you accept this license, and then click Next.



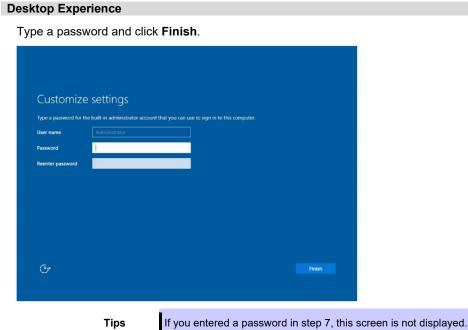
If a choosing installation OS screen appears, the inserted OS media is different from the setting of step 7. Retry the setting from the beginning.

Applicable notices and license terms IMPORTANT NOTICE (followed by LICENSE TERMS) Diagnostic and Usage Information. Microsoft automatically collects this inprade, and user experience, and the quality and security of Microsoft paradicta and service. Consistent with three purposes, the information may be associated with your organization. Windows Server 2016 has four (2) information cover terming by default. This level includes information required in to 'In our antimativa end diagnostic and usage information usage and technologies; (6) understand device quality, and application usage and technologies; (6) understand device quality, and application usage and technologies; (6) understand applications:	G	🔏 Windows Setup	×
Diagnostic and Usage Information. Microsoft automatically collects this information over the internet, and uses it to help improve your installation, upgrade, and user experience, and the utuality and security of Microsoft products and services. Consistent with these purposes, the information may be associated with your organization. Windows Sever 2016 has four (4) information collection settings (Security, Basic, Enhanced, and Full), and uses the "Enhanced" settings y delaut. This level includes information nequired to: (0) run our antimalware and diagnostic and usage information technologies; (0) understand device quality, and application usage and compatibility, and (iii) identify quality issues in the use and performance of the operating system and applications.		Applicable notices and license terms	
		Diagnostic and Usage Information. Microsoft automatically collects this information over the internet, and uses it to help improve your installation, upgrade, and user experience, and the quality and security of Microsoft products and services. Consistent with these purposes, the information may be associated with your organization. Windows Server 2016 has four (4) information collection settings (Security, Basic, Enhanced, and Tul), and uses the Trahanced 's setting by default. This level includes information required to: (i) un our antimalware and diagnostic and usage information technologies (i) understand device quality, and application usage and compatibility; and (iii) identify quality issues in the use and performance of the operating system and applications.	~
Net		-	
			Next

The following screen is displayed, and Windows installation automatically starts.

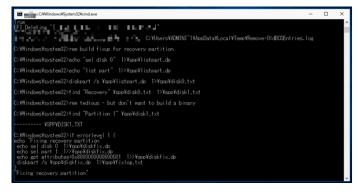


10. The following screen appears depending on the setting of Step 7.

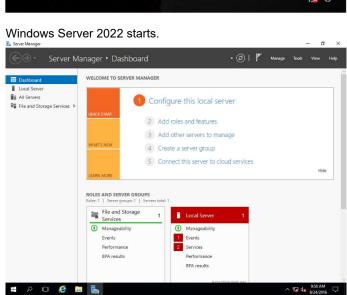


After signing in, installation automatically resumes.

After installation is complete, the system automatically restarts.



36





Enter the password and press <Enter> key.



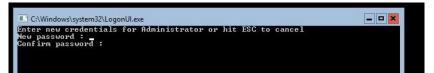
Press <Ctrl> + <Alt> + <Delete> key to unlock.

Server Core

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



Type a new password and press <Enter> key.



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

C:\Windows\system32\LogonUl.exe	×
Administrator Your password has been changed.	
0k	

Windows Server 2019 starts.

Administrator: C:\Windows\system32\cmd.exe	
C:\Users\Administrator>	

11. After signing in, installation automatically resumes.

After installation is complete, the system automatically restarts.

- 12. See Chapter 1 (3.4 Standard Program Package Installation) to install SPP.
- 13. Install drivers and specify detailed settings according to Chapter 1 (3.5 Setup of Device Drivers).
- 14. Confirm if Windows is activated according to Chapter 1 (3.6 License Authentication).
- 15. See Chapter 1 (3.7 Setup of Windows Server 2022 NIC Teaming (LBFO)) to setup a team as needed.
- 16. Install the applications as needed according to Chapter 1 (3.8 Installing Applications).
- 17. Set the other OS settings according to Chapter 1 (4. Setting up for Maintenance).
- 18. See Chapter 1 (5. Backup of system information) to back up the system.

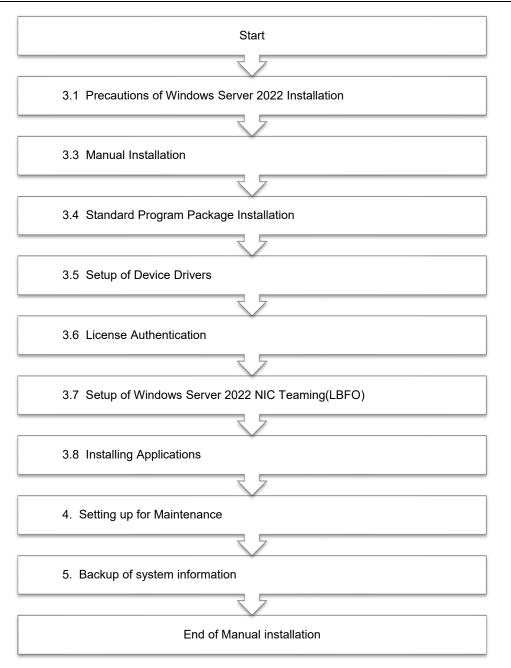
The Windows installation with Rapid Setup option is now complete.

3.3 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.

3.3.1 Setup flow



3.3.2 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)
 - $\rightarrow\,$ The Starter Pack which supports Windows Server 2022 is "S8.10-010.08". Download it from Web site.

Note

If using the onboard RAID controller and the internal optical disk drive, the driver is loaded from a removable media device.

Copy and prepare the following files onto a removable media in advance.

<Starter Pack>:\software\010\drivers\sw_raid1_driver

3.3.3 Installation procedure

Note

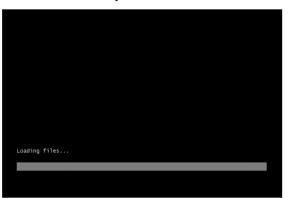
Read the precautions in *Chapter 1 (3.1 Precautions of Windows Server 2022 Installation)* in advance.

- 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

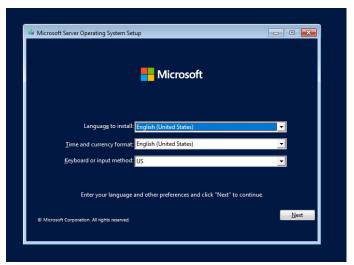
The message "Press any key to boot from CD or DVD..." is displayed on the upper of the screen. Press the <Enter> key to start from the media.



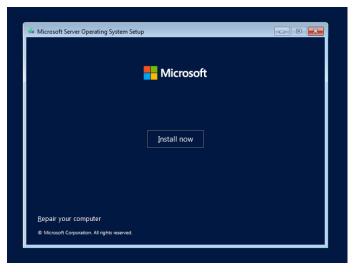
Note

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.



If the following message is displayed: Go to Step 6.

If the following message is not displayed: Go to Step 8.

ad driver	
	needs is missing. This could be a DVD, USB or Hard disk r USB flash drive with the driver on it, please insert it
Note: If the installation media for can safely remove it for this step	or Windows is in the DVD drive or on a USB drive, you p.
	Browse OK Cancel

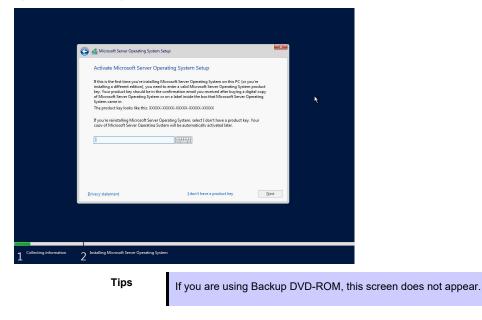
6. After connecting the removable media where the onboard RAID controller driver was copied, specify the path and click **OK**.

<Removable media>:\sw_raid1_driver\ws2022

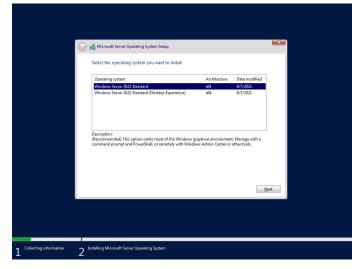
7. Select the following driver from the displayed list of drivers, and click Next.

HPE Smart Array S100i SR Gen10 SW RAID

8. Type the product key, and then click Next.



9. 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)

→ Described as "Desktop Experience" by this manual

10. Read the license terms carefully.

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



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

	🔁 🍓 Microsoft Server Operating System Setup	-
	Which type of installation do you want?	
	Upgrade: Install Microsoft Server Operating System and keep files, settings, and epplications. The files, settings, and applications are moved to the new operating system with this option. This option is only available when a supported version of the operating system is already running on the computer.	
	Custon: Install Microsoft Server Operating System only (advanced) The files, stilling, and applications and moved to the new operating system with this option. If the files, stilling, and applications and moved to the new operating system with this option. We were commend backing up your files before you continue.	
ollecting information	Installing Microsoft Server Operating System	

12. The "Select Windows installation location" screen is displayed.

If the driver was loaded in steps 6 and 7, or if the onboard RAID controller is not in use,

proceed to step 15. If you select Load driver here, the following screen will be displayed.

oad driver	×
	er needs is missing. This could be a DVD, USB or Hard disk or USB flash drive with the driver on it, please insert it
Note: If the installation media can safely remove it for this st	a for Windows is in the DVD drive or on a USB drive, you tep.
	Browse OK Cancel

- 13. After setting the Starter Pack DVD in the USB-DVD drive, assign a file directory, and click **OK**. <*Starter Pack DVD*:\software\010\drivers\sw_raid1_driver\ws2022
- 14. Select the following driver from the displayed list of drivers, and click Next.

HPE Smart Array S100i SR Gen10 SW RAID

15. Click New.

	Microsoft Server Ope		operating system?				
T T	Name	ne to install the	Total size	Free space Type			
	Drive 0 Unallor	cated Space	127.0 GB	127.0 GB			
	∲ Befresh ∯ Load driver	X Delete De Egtend	€ormat	₩ N <u>e</u> w	Next		
nation 2 ^{Inst.}	alling Microsoft Server	r Operating System					

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

	Name		1.8	Fotal size	Free space	Туре	
SP 1	Drive 0 Unallocate	d Space		127.0 GB	127.0 GB		
*∌ <u>B</u> efrei € Load			Size:		¥ Ngw ≧ MB	Apply Cencel	

When the following window appears, click **OK**.

ſ	Microsoft S	Server Operating System Setup
	1	To ensure that all Windows features work correctly, Windows might create additional partitions for system files.
		OK Cancel

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)
- 17. Select the partition created in step 16, and then click **Format**.

Important	When the following screen appears, read the message and click [OK].
	Carefully select the partition to be formatted because data in the partition will
	be erased.
	Microsoft Server Operating System Setup This partition might contain important files or applications from your computer manufacturer. If you format this partition, any data stored on it will be lost. OK Cancel

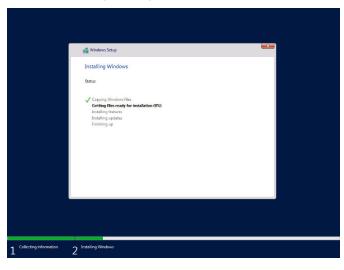
18. Select the created partition, and then click Next.

Drive 9 Perton 2 35.1 GB 35.0 GB Primary Drive 0 Unallocated Space 91.8 GB 92.8 GB 4 parter parter	Name	Partition 1: System Reserved	Total size	Free space 88.0 MB	
4 ₉ <u>Defens</u> X Defets	~				
🕀 Loud driver 💦 Egend	S Drive 0	Unallocated Space	91.8 GB	91.8 GB	
Next					Next

Tips

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.

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

Desktop Experience

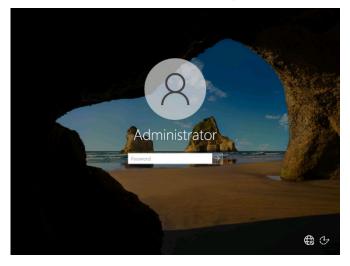
Type a password and click Finish.

	e settings ne built-in administrator accour	nt that you can use to	rian in to this cor	nnutar	
User name	Administrator		argin in to this cor	npoter.	
Password					
Reenter password	•••••	Ŷ			

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



Enter the password and press <Enter> key.

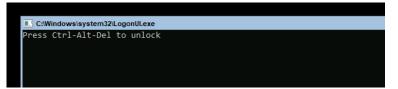


Windows Server 2022 starts.

🚵 Server Manager		- 0	×
€∋- Ser	ver Manager + Dashboard	🛛 🗭 🚩 Manage Tools View H	lelp
🛄 Dashboard	WELCOME TO SERVER MANAGER		1
Local Server			1
All Servers	🚡 Server Manager	×	
File and Storage Se	Try managing servers with Windows Admin Center	ver	1.1
	Ity managing servers with vincovs variant catter Windows Admin Center brings together new and familiar features in one browser-based app. It runs on server or a PC, and there's no additional cost beyond your Windows licenses.	кd	
		age	
	Get more info at aka.ms/WindowsAdminCenter		
	Don't show this message again	ud services	
L			
	LEARN MORE	Hide	
			4
	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 🛛 🗮 🔁 🔚	€ 4 8:00 PM	
/ ippendie a		468 VII 11/5/2021	

Server Core

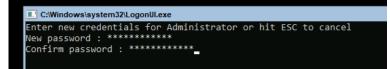
Press <Ctrl> + <Alt> + <Delete> keys to unlock.



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

	:\Windows	s\system32\L	ogonUI.	exe				
Admi	nistrat	or						
The	user's	password	must	be	changed	before	signing in.	
OK								
Canc	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.

🖏 Admin	istrator: C:\Windows\system32\cmd.exe			
WARNING	: To stop SConfig from laun	ching at sign-in, ty	pe "Set-SConfig	-AutoLaunch \$f
	Welcome to W	indows Server 🃲 📲	itandard	
1) 2)	Domain/workgroup: Computer_name:	Workgroup:	an an tairte	

- 20. See Chapter 1 (3.4 Standard Program Package Installation) to install SPP.
- 21. Install drivers and specify detailed settings according to Chapter 1 (3.5 Setup of Device Drivers).
- 22. Confirm if Windows is activated according to Chapter 1 (3.6 License Authentication).
- 23. See Chapter 1 (3.7 Setup of Windows Server 2022 NIC Teaming (LBFO)) to setup a team as needed.
- 24. Install the applications as needed according to Chapter 1 (3.8 Installing Applications).
- 25. Set the other OS settings according to Chapter 1 (4. Setting up for Maintenance).
- 26. See Chapter 1 (5. Backup of system information) to back up the system.

The Windows installation with Manual Installation is now complete.

3.4 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.

3.4.1 Before the installation

Confirm the next contents before applying Standard Program Package. Sign-in to the Windows with an Administrators privilege.

(1) Installing these drivers individually

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.

Although the message indicated that the latest version has already been installed may be displayed, proceed with the installation. After that, restart the server.

Devices/Options	Driver application modules in the Starter Pack DVD
When N8103-189/190/191/192/193/194/195/196/197/ 201/237/238 is installed to the server	\packages\cp055510.exe

(2) Stopping Services of ServerAgentService

If ESMPRO/ServerAgentService is installed, stop following services from **Administrative Tools** - **Services** of control panel before applying Standard Program Package.

- ESM System Management Service
- ESMCommonService

(3) Delete Folders

If C:\cpqsystem exists, delete that folder.

(4) Installing certification

Install certification according to following procedure.

- 1. Insert Starter Pack DVD into drive.
- 2. Right-Click " \packages\assets\certificates\CA.crt " on DVD, and select Install Certificate.
- 3. Click Current User and Next to start certificate import wizard.
- Click Place all certificates in the following store.
 Select Trusted Root Certification Authorities from Browse..., and click OK.
 Click Next to progress.
- 5. Click Finish on Completing the Certificate Import Wizard.
- After a short time, Security Warning pop-up screen will be displayed. Click Yes to install certification.
- When "The import was successful." message is displayed, click OK. Installing certification is now completed.

3.4.2 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	
0	Versions	
P	Integrated Installation	
	Applications	
	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 		
(0)	Applications INEC ESMPRO ServerAgentService	Rev2.0	Not installed
	Express Report Service	Rev3.5E	Not installed
	Express Report Service (HTTPS)	Rev3.8	Not installed
(2	RAID Report Service	Rev1.00 (3459)	Not installed
J	Product Info Collection Utility RESTful Interface Tool	Rev3.0.5 Rev2.0.0.0	Not installed Not installed
			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	

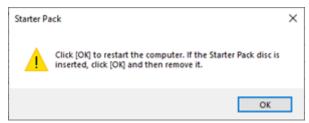
Note		fter installing a standard program package, the following message displays nd refers to <i>chapter 2 (2.1 Problem of OS)</i> .
		×
		An error occurred during installing the Standard Program Package. To handle this error, refer to troubleshooting of Installation Guide (Windows) according to your Starter Pack version. (Code:)
		Click [OK] to restart the computer. If the Starter Pack disc is inserted, click [OK] and then remove it.
		ОК
	● iL	O may be reset during applying Standard Program Package.
		iLO is reset, iLO remote console and iLO virtual media is disconnected.
		Vhen iLO remote console and iLO virtual media is disconnected, connect gain after 30 seconds or more.

7. Click OK.

Windows Script Host	×
[SPP]Installing selected applie	cation was completed.
	ОК
Note	If the following message displayed during installing the Standard Program Package, 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.

8. Windows Server 2022 restarts automatically.

Then, remove the Starter Pack DVD.



SPP installation is now complete.

3.4.3 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

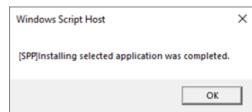


 If you had updated firmware beforehand, click **OK** to start the installation of Standard Program Package.

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

Starter Pack DVD, you ca Package(SPP) by using th	ore updating the BIOS/FW included ecomes failing to boot.
	OK Cancel
Note	 After installing a standard program package, the following message displays and refers to <i>chapter 2 (2.1 Problem of OS)</i>. An error occurred during installing the Standard Program Package. To handle this error, refer to troubleshooting of Installation Guide (Windows) according to your Starter Pack version. (Code:) Click [OK] to restart the computer. If the Starter Pack disc is inserted, click [OK] and then remove it.
	 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.

3.5 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.

3.5.1 Installing the LAN drivers

(1) LAN drivers

The drivers are installed by Standard Program Package.

Important	Wake On LAN (WOL) is supported by standard network adapters and N8104-171/172/173/175/193/194/195/206/207/208/213/217 only.
	When using Wake On LAN see Chapter 1 (3.5.2 Setting up LAN drivers - (3) Setting up Wake on LAN).
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	N8104-206/207/208/209/210/211/212/217/219
R120h-1M R120h-1M (2nd-Gen) R120h-2M R120h-2M (2nd-Gen)	N8104-171/172/173/175/176/177/178/179/180/181/182/183/184/185/186/187
R120h-1M (3rd-Gen) R120h-2M (3rd-Gen)	N8104-172/175/178/179/180/181/182/183/184/185/186/187/213/215
R120h-1E R120h-2E	N8104-171/172/173/175/176/177/178/179/180/181/182/183/184/185/186/187/ 193/194/195
T120h	N8104-178/179/180/181/182/183/184/185/186/187

If you install the LAN boards after installing Standard Program Package, install Standard Program Package again according to *Chapter 1 (3.4 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.

- Standard network adapters

R120h-1M R120h-1M (2nd-Gen) R120h-2M R120h-2M (2nd-Gen)	HPE Ethernet 1Gb 4-port 331i Adapter #xx(*1)
R120h-1E R120h-2E	HPE Ethernet 1Gb 2-port 368i Adapter #xx(*1)
T120h	HPE Ethernet 1Gb 4-port 369i Adapter #xx(*1)

- Optional LAN boards:

N8104-171	HPE Ethernet 1Gb 4-port 331FLR Adapter #xx(*1)
N8104-172	HPE Ethernet 1Gb 4-port 366FLR Adapter #xx(*1)
N8104-173	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter #xx(*1)
N8104-175	HPE Ethernet 10Gb 2-port 562FLR-T Adapter #xx(*1)
N8104-176	Port1 : HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter #xx(*1)
	Port2 : HPE Ethernet 10Gb 562SFP+ Adapter #xx(*1)
N8104-177	HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter #xx(*1)
N8104-178	HPE Ethernet 1Gb 2-port 332T Adapter #xx(*1)
N8104-179	HPE Ethernet 1Gb 4-port 331T Adapter #xx(*1)
N8104-180	HPE Ethernet 1Gb 2-port 361T Adapter #xx(*1)
N8104-181	HPE Ethernet 1Gb 4-port 366T Adapter #xx(*1)
N8104-182	HPE Ethernet 10Gb 2-port 530T Adapter #xx(*1)
N8104-183	HPE Ethernet 10Gb 2-port 521T Adapter #xx(*1)
N8104-184	HPE Ethernet 10Gb 2-port 562T Adapter #xx(*1)
N8104-185	HPE Ethernet 10Gb 2-port 530SFP+ Adapter #xx(*1)
N8104-186	Port1 : HPE Ethernet 10Gb 2-port 562SFP+ Adapter #xx(*1)
	Port2 : HPE Ethernet 10Gb 562SFP+ Adapter #xx(*1)
N8104-187	HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter #xx(*1)
N8104-193	HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter #xx(*1)
N8104-194	HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter #xx(*1)
N8104-195	HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter #xx(*1)
N8104-206	Intel(R) Ethernet Network Adapter I350-T4 for OCP NIC 3.0 #xx (*1)
N8104-207	Marvell FastLinQ Ethernet 10Gb 2-port BaseT QL41132HQRJ OCP3 Adapter #xx(*1)
N8104-208	Intel(R) Ethernet Network Adapter E810-XXV-2 for OCP 3.0 #xx(*1)
N8104-209	Intel(R) Ethernet Server Adapter I350-T4 #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)
N8104-212	Intel(R) Ethernet Network Adapter E810-XXV-2 #xx(*1)

- N8104-213 HPE Ethernet 10Gb 2-port 535FLR-T Adapter #xx(*1)
- N8104-215 HPE Ethernet 10Gb 2-port 535T Adapter #xx(*1)
- N8104-217 Broadcom NetXtreme E-Series Dual-port 10GBASE-T Ethernet OCP 3.0 Adapter #xx(*1)
- N8104-219 Broadcom P210tep NetXtreme-E Dual-port 10GBASE-T Ethernet PCIe Adapter #xx(*1)

*1: If there are adapters with the same name, a different identification number will be assigned to xx.

TipsThe ID for N8104-173/177/182/183/185/187/207/210/211 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.

Tips

- 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.
 - Start Device Manager.
 Open Network Adapters, right click on the relevant adapter, and select Uninstall Device.
 When Delete the driver software of this device checkbox is displayed, do
 - not surely put a check.
 - 4. Select Uninstall.
 - 5. Select Scan hardware change from Control.

3.5.2 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.

ImportantIf you are using a network adapter for N8104-213/215/217/219, changing the
setting is not supported of "Speed & Duplex".
Use int the "Auto Negotiation" of default value.

Tips

If you are using a network adapter for N8104-177/185/187, the network adapter settings can be set to "10 Gbps Full Duplex" or "25 Gbps Full Duplex", and the connected switching hub settings can be set to "Auto Negotiation".

- 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 N8104-177/183/187/207/210/211, 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. The default value of Flow Control is may become disabled, so if Flow Control in the destination device is set as Enabled, enable the network adapter.

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.

Tips

For N8104-208/212, it is recommended to set the Receive Buffer value to 4096.

(3) Setting up Wake on LAN

- When using R120h-1E / R120h-2E / T120h standard network adapters and N8104-172/175/193/194/ 195/206/208 with the server, follow the procedure below to set it.
 - 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 Enable PME to show Value.
 - 4. Change the value to **Enabled** by the down-arrow button.
 - Click **OK**, and then restart the system.
 Setup is now complete.
- When using R120h-1M / R120h-1M (2nd-Gen) / R120h-2M / R120h-2M (2nd-Gen) standard network adapters and N8104-171/173/207/213/217 with the server, Wake On LAN must be configured in the BIOS. For information on changing settings in the BIOS, refer to the maintenance guide for each server. The **Enable PME on shutdown** in the **Advanced** of N8104-213/217 is not a Wake On LAN setting and should not be changed.

(4) Important notes on using SET (Switch Embedded Teaming) in a Hyper-V environment.

- When N8104-173/182/185 is use with SET (Switch Embedded Teaming), following steps below to set **Encapsulated Task Offload** to disable in beforehand.
 - 1. Start Device Manager.
 - 2. Open **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 Encapsulated Task Offload to show Value.
- 4. Change the value to **Disabled** by the down-arrow button.
- 5. Click **OK**, and then restart the system.

Setup is now complete.

(5) Important notes on using NIC Teaming (LBFO).

- When R120h-1M / R120h-1M (2nd-Gen) / R120h-2M / R120h-2M (2nd-Gen) / R120h-1E / R120h-2E / T120h standard network adapters and N8104-171/172/178/179/180/181/193/206/209 is use with NIC Teaming (LBFO), following steps below to set disable ARP Offload and NS Offload in beforehand.
 - 1. Start Device Manager.
 - Open 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, set value of ARP Offload and NS Offload to Disabled.
- 4. Click **OK**, and then restart the system.

Setup is now complete.

3.5.3 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 (3.4 Standard Program Package Installation)*.

3.5.4 Using SAS Controller (N8103-184/E184)

The driver for SAS controller N8103-184/E184 is automatically installed by Windows Plug-and-Play.

3.5.5 Using SAS Controller (N8103-197)

For installation with the Manual installation, the drivers are installed by Standard Program Package.

If you install the SAS controller (N8103-197) after installing Standard Program Package, install driver by following steps.

- 1. Insert the Starter Pack DVD into the optical disk drive.
- 2. Run the \packages\cp055510.exe on the DVD to install the driver.
- 3. After installing driver, restart the server.

3.5.6 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 driver by following steps.

- 1. Insert the Starter Pack DVD into the optical disk drive.
- 2. Run the \packages\cp055510.exe on the DVD to install the driver.
- 3. After installing driver, restart the server.

3.5.7 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.

3.5.8 Using Fibre Channel Controller (N8190-163/164/165/166/171/172)

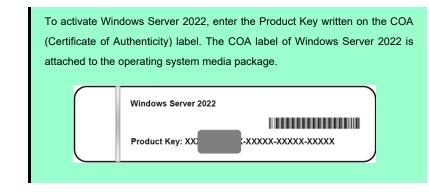
For installation with the Manual installation, the drivers are installed by Standard Program Package. If you install the Fibre Channel Controller (N8190-163/164/165/166/171/172) after installing Standard Program Package, install Standard Program Package again according to Chapter 1 (3.4 Standard Program Package Installation).

3.6 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



3.6.1 Desktop Experience

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

0						
Recycle						
	Apps and Features					
	Power Options					
	Event Viewer					
	System					
-	Device Manager					
	Network Connections					
	Disk Management					
	Computer Management					
	Windows PowerShell					
	Windows PowerShell (Admin)					
	Task Manager					
	Settings					
	File Explorer					
	Search					
	Run					
	Shut down or sign out					
	Desktop				- 4:04 PM	
-	,	Hi 💽	;		4:04 PM 11/9/2021	

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

Settings	×
 Mome Find a setting ✓ ✓	About Windows specifications Edition Windows Server 2022 Standard Version
🖵 Display	Installed on 💼 📲
句》 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
🖒 Power & sleep	
📼 Storage	
🕒 Tablet	Support
目 Multitasking	Manufacturer Website Online support
Projecting to this PC	Related settings

3. Perform license authentication.

\leftarrow Settings	– 🗆 X
டு Home	Activation
Find a setting ρ	Windows
Update & Security	Edition Windows Server 2022 Standard Activation Unable to reach Windows activation servers
C Windows Update	Learn more
曲 Delivery Optimization	Product Key XXXXX-XXXXX-XXXXX-
Windows Security	Activate Windows now
P Troubleshoot	If you're having problems with activation, select Troubleshoot to try and fix the problem.
츠 Recovery	7 Troubleshoot
 Activation 	To install a new product key, select Change product key.
1 For developers	C Change 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.

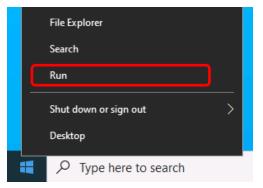
Go to the appropriate step according to OS installation media you are using.

Backup DVD-ROM:	Go to Step 5.
-----------------	---------------

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.

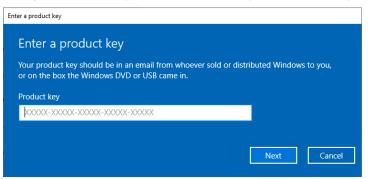
5. Right-click the lower left of the screen, and click Run from the menu displayed.



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]

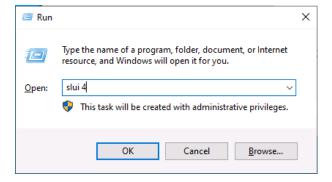
7. Change the product key. On the next screen, type the product key.



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

	File Explorer	
	Search	
C	Run	
	Shut down or sign out >	
	✓ Type here to search	

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



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

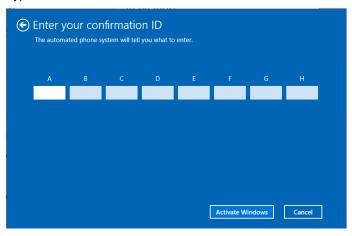
United States	~		

Get the installation ID required for license activation.

Call a	nd pro	ovide y	vour ii	nstalla	ation I	D			
Call one of these numbers. The automated phone system will ask for your installation ID (IID). Some charges may be applied by local operators for toll-free numbers in certain countries or regions.									
Toll free: 855-801-0)109								
Toll: not availa	ble								
Installatio	on ID:								
0000000	0000000	0000000	0000000	0000000	0000000	0000000	0000000	0000000	
Read our	privacy sta								
						Enter co	onfirmatio	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.

3.6.2 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.

3.7 Setup of Windows Server 2022 NIC Teaming (LBFO)

Set up the network adapter teaming feature as shown below.

3.7.1 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.

3.7.2 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	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.

3.7.3 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.

3.7.4 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)]

3.8 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	
Í	Versions	
F	Integrated Installation	
	Applications	
Bel	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		NE	C
	Integrated Installation			
	Install the following software. – Install Standard Program Package prior to ins – Uninstall the application prior to reinstalling t			
6	Octandar an Hogramm ackage Octandar an Hogramm ackage Octandar an Hogramm ackage Octandar an Hogramm ackage Octandar an Hogramm ackage	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	
				\int
B			Install	J
	L			

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 $\ensuremath{\text{OK}}$ 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

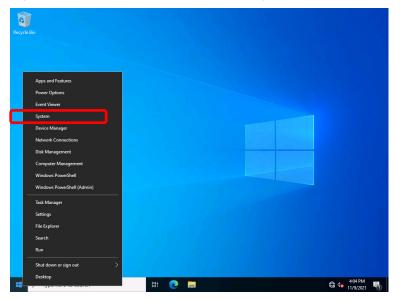
We recommend setting up the following features for maintenance.

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

3. In Startup and Recovery, 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	

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

Startup and Recovery	×
System startup Default operating system: Windows Server ✓ Time to display list of operating systems: ③ ● □ Time to display recovery options when needed: 30 ● seconds	
System failure Write an event to the system log Automatically restart Write debugging information Kernel memory dump	
Dump file: D:\MEMORY.DMP	
Disable automatic deletion of memory dumps when disk space is low	

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.

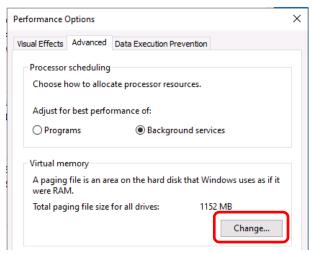
5. In Performance, click Settings.

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	×
Automatically manage paging file size for all dr Paging file size for each drive Drive [Volume Label] Paging File Size C: System	
Selected drive: C:	
Space available: 21402 MB © Custom size: Initial size (MB): Maximum size (MB):	
 System managed size No paging file 	Set
Total paging file size for all drives Minimum allowed: 16 MB Recommended: 1151 MB Currently allocated: 1152 MB	
ОК	Cancel

9. 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.

aging file size for all drives ve
Paging File Size (MB)
System managed
402 MB
Set
drives
5 MB
151 MB
152 MB
OK Cancel

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			
	> Type field to search	🖽 💽	in 🔁	🔀 🔩 441 PM

2. Click More details.

👰 Task Manager	_		×
	There are no running apps		
⊘ More details		End ta	sk

- 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

Tips	If the folder is not displayed, open Explorer, select Hidden items in the View tab.
	File Home Share View → ?
	Image: Preview pane pane pane pane panes Image: Extra large icons image: Large

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 RBSU settings contained in system utility. For details, see Chapter 1 (Backup and Restore of RBSU Settings) in Maintenance Guide (Common).
- 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.

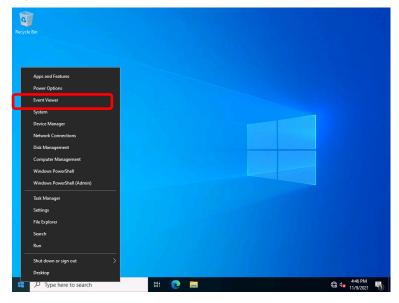
I.I Collecting Event Logs

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**.

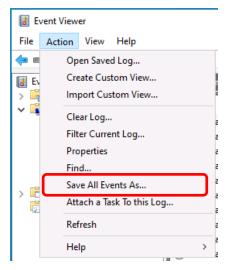
Application records events related to running applications.

Security records events related to security.

System records events that occur in Windows system components.

Event Viewer File Action View Help						
← ➡ 2 📰 2 페	Windows Logs				Actions	_
 ✓ Windows Logs ▲ Application ⇐ Security ➡ Setup ⇐ System ➡ Forwarded Events ➤ Applications and Services Lo 	Name Application Security Setup System Forwarded Events	Type Administrative Administrative Operational Administrative Operational	16	Size 1.07 MB 3.07 MB 68 KB 7.07 MB 0 Bytes	Windows Logs Image: Solution of the state of the st	-
🔁 Subscriptions					Help Application Open Properties Help	-

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.

TipsIf 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						
Recyc	le Bin					
	Apps and Features					
	Power Options					
	Event Viewer					
	System					
	Device Manager					
	Network Connections					
	Disk Management					
	Computer Management					
	Windows PowerShell			_		
	Windows PowerShell (Admin)					
-	Task Manager					
	Settings					
	File Explorer					
	Search					
	Run					
	Shut down or sign out					
	Desktop					
	P Type here to search	Ħ	e		€ 4:50 PM	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 \checkmark 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.

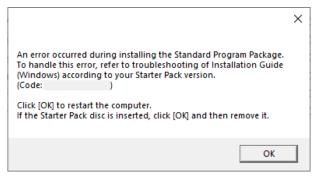
Important Do not reset during dumping memory or resetting the server even if the message of virtual memory shortage appears.

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.

2.1 Problem of OS

[?] Unable to apply Standard Program Package



→ According to your environment, individual installation of firmware and drivers may be required before applying Standard Program Package.

Refer to Chapter 1 (3.4.1 Before the installation) for details.

When the problem does not solve, collect log by following procedure to request survey through the supplier.

- 1. Sign-in to the Windows with an Administrators privilege.
- 2. Set the Starter Pack DVD to the drive.
- 3. Run the \packages\gatherlog.bat on the DVD.
- 4. Collect genelated Zip file.

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 (3.5 Setup of Device Drivers) and Chapter1 (3.4 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.

If the RAID controller driver is required, take the following steps:

Note	When the server configures an onboard RAID controller and an internal optical
	disk drive, load the driver from a removable media.
	Copy the following folder from Starter Pack DVD to a removable media in
	advance. <starter pack="">:\software\010\drivers\sw_raid1_driver</starter>

- 1. After turning on the server or restarting the server, insert the OS installation media into the server.
- 2. Press <F11> key during POST to start Boot Menu.
 - In **One-Time Boot Menu**, select the optical disk drive to which OS installation media is set by Step 1, and then exit the menu.
- When the message "Press any key to boot from CD or DVD..." appears on the upper of the screen, press <Enter> key to boot from the media.

While boot-up proceeds, the message "Loading files..." appears.

- 4. Choose Repair your computer in the setup wizard.
- 5. Click Troubleshoot.
- 6. Click Command Prompt.
- 7. After setting Starter Pack DVD to the drive, run the following command to load the driver:

("D:" means a drive name of DVD and this name depends on your system)

For onboard RAID controller:

drvload D:\software\010\drivers\sw_raid1_driver\ws2022\SmartDQ.inf

When the server configures an onboard RAID controller and an internal optical disk drive, load the driver from a removable media. ("E:" means a drive name of removable media and this name depends on your system)

drvload E:\sw_raid1_driver\ws2022\SmartDQ.inf

Tips

The volume label for each drive can be checked from the display result of the dir command. Example: **dir C:**\

8. Exit the command prompt.

The driver installation is completed.

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 logged		Action

All Windows OS

"System Log"

1	VDS Basic Provider	Error	Unexpected failure. Error code : 32@01000004
	At the time of a USB Device connection		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		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)
11	When applying Standard Program Package		This event does not affect system operation.
	ql2300	Error	The driver detected a controller error on Device\RaidPortX. (X is any number)
11	When starting system.		 If your system could not recognize device with this event, please refer following steps. Be disabled and enabled N8190-165/166 from Device Manager. 1. Start Device Manager. 2. Right click HPE SN1100Q 16G 1p FC HBA or HPE SN1100Q 16G 2p FC HBA of Storage Controllers, and choice Disable Device. 3. "Disabling this device will cause it to stop functioning. Do you really want to disable it?" message appeared, click Yes. 4. Right click disabled HPE SN1100Q 16G 1p FC HBA or HPE SN1100Q 16G 2p FC HBA, choice Enable Device. Right click disabled HPE SN1100Q 16G 1p FC HBA or HPE SN1100Q 16G 2p FC HBA, choice Enable Device.
51	Cdrom	Warning	Error detected on the device \Device\CdRom0 during the paging operation.
2.	When installing an OS		This event may be registered in the event viewer, but this does not affect system operation.

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

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 XXXXXXXXXXXXXXXXXXXXXXXX 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.
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 XXXXXXXXXXXXXXXXXXXX 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		When multiple RAID controller or SAS controller are loaded it is registered, but 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.
	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.

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

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.
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 system, or applying Standard Program Package		This event does not affect system operation.

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

	I	1	
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 slo x, port xlf the connection is lost, then check the physical connectior 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, startin applying Standard Program Pa		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.
37132	ESMCommonService	Error	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.

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

37133	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, or applying Standard Program	Package	This event does not affect system operation.

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

		1	
2	bnxtnd	Warning	xxxxx #xx : The network link is down. Check to make sure the network cable is properly connected. * x is a different display name depending on the LAN board.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
	b57nd60a	Warning	Broadcom NetXtreme Gigabit Ethernet #xx: The network link is down. Check to make sure the network cable is properly connected.
4	When installing an OS, startin applying Standard Program Pa		This event does not affect system operation.
4	l2nd	Warning	xxxxx #xx : The network link is down. Check to make sure the network cable is properly connected. * x is a different display name depending on the LAN board.
4	When installing an OS, startin applying Standard Program Pa		This event does not affect system operation.
4	l2nd2	Warning	xxxxx #xx: The network link is down. Check to make sure the network cable is properly connected. * x is a different display name depending on the LAN board.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
4	q57nd60a	Warning	xxxxx #xx : The network link is down. Check to make sure the network cable is properly connected. * x is a different display name depending on the LAN board.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
9	bxfcoe	Warning	The SAN link is down for port WWN XX:XX:XX:XX:XX:XX:XX:XX: Check to make sure the network cable is properly connected. (X is any number)
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
9	qefcoe	Warning	The SAN link is down for port WWN XX:XX:XX:XX:XX:XX:XX:XX:XX: Check to make sure the network cable is properly connected. (X is any number)
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
	bnxtnd	Error	xxxxx #xx : Firmware returned failure status. * x is a different display name depending on the LAN board.
23	About N8104-213/215/217/219, when changing the link speed setting with the LAN cable and switching hub not connected, or when you restart the system in the state after changing the settings		This event does not affect system operation.

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

20	Bnxtnd	Warning	 xxxxx #xx : Adapter Incompatible speed selection between Port 1 and Port 2. Reported link speeds are correct and might not match Speed and Duplex setting. * x is a different display name depending on the LAN board.
26	About N8104-213/215217/219, when changing the link speed setting with the LAN cable and switching hub not connected, or when you restart the system in the state after changing the settings		This event does not affect system operation.
27	e1i68x64	Warning	xxxxx #xx Network link is disconnected. * x is a different display name depending on the LAN board.
	When installing an OS, startin applying Standard Program Pa	0	This event does not affect system operation.
27	e1rexpress	Warning	xxxxx #x Network link is disconnected. * x is a different display name depending on the LAN board.
	When installing an OS, startin applying Standard Program Pa		This event does not affect system operation.
27	i40ea	Warning	xxxxx #xx Network link is disconnected. * x is a different display name depending on the LAN board.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
27	i40eb	Warning	xxxxx #xx Network link is disconnected. * x is a different display name depending on the LAN board.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
27	i40ei68	Warning	xxxxx #xx Network link is disconnected. * x is a different display name depending on the LAN board.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
27	icea	Warning	xxxxx #xx Network link is disconnected. * x is a different display name depending on the LAN board.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
27	ixgbs	Warning	xxxxx #xx Network link is disconnected. * x is a different display name depending on the LAN board.
	When installing an OS, startin applying Standard Program Pa		This event does not affect system operation.

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

			xxxxx #xx
	ixi68x64	Warning	Network link is disconnected.
27	<u> </u>		* x is a different display name depending on the LAN board.
	When installing an OS, starting system, or		This event does not affect system operation.
	applying Standard Program Package		
			xxxxx #xx : NDIS-Miniport is not compatible(older or newer) with but
	l2nd2	Warning	driver. Hence only basic L2 functionality is available.
38			* "x" depends on the system environment.
	When installing an OS, starting applying Standard Program Pa		This event does not affect system operation.
			NTPNP_PCIxxxx: RDMA has been implicitly disabled due to RDM
			interface incompatibility between NDIS Miniport (ver x.xx.xx.) an
	qebdrv	Warning	VBD (ver x.xx.x.x) drivers. VBD driver upgrade is required.
56			* "x" depends on the system environment.
	When applying		
	Standard Program Package	1	This event does not affect system operation.
			NTPNP_PCIxxxx: RDMA has been implicitly disabled due to RDM
57	qebdrv	Warning	interface incompatibility between NDIS Miniport (ver x.xx.xx.x) and
		Warning	VBD (ver x.xx.x.x) drivers. NDIS Miniport upgrade is required.
			* "x" depends on the system environment.
	When applying Standard Program Package		This event does not affect system operation.
		Warning	HPE Ethernet xGb x-port xxxx Adapter
			The driver for the device detected a newer version of the NVM imag
	i40ea		than expected. Please install the most recent version of the network
69			driver.
			*"x" depends on the system environment.
	When installing an OS, starting system, or		This event does not affect system operation.
	applying Standard Program Pa	ackage	
			HPE Ethernet xGb x-port xxxx Adapter
			The driver for the device detected a newer version of the NVM imag
	i40eb Warn	Warning	than expected. Please install the most recent version of the netwo
69			driver.
			*"x" depends on the system environment.
	When installing an OS, starting system, or		This event does not affect system operation.
	applying Standard Program Package		
			XXXXX #XX
	140-100		The driver for the device detected a newer version of the NVM imag
60	i40ei68	Warning	than expected. Please install the most recent version of the network driver.
69			
	When installing on QS, starting system, an		* x is a different display name depending on the LAN board.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
	applying Standard Program Pa	аскаде	

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

101	i40eb	Warning	HPE Ethernet xGb x-port xxxx Adapter PROBLEM: Flow Control disabled on this interface. For RDMA traffic, it is recommended that flow control be enabled end to end on all network interfaces and switches to avoid performance degradation from dropped packets. ACTION: Enable link level flow control or priority flow control for network direct port 445 on this interface. * "x" depends on the system environment.
	When installing an OS, starting applying Standard Program Pa		This event does not affect system operation. After Standard Program Package is applied, this log will no longer be registered.
101	icea	Warning	Intel(R) Ethernet Network Adapter E810-XXV-2 xxxxx PROBLEM: Flow Control disabled on this interface. For RDMA traffic, it is recommended that flow control be enabled end to end on all network interfaces and switches to avoid performance degradation from dropped packets. ACTION: Enable link level flow control or priority flow control for network direct port 445 on this interface. * "x" depends on the system environment.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation. After Standard Program Package is applied, this log will no longer be registered.
	SmartDqa	Warning	Reset was issued to the device \Device\RaidPort0.
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.
	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.

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

219 Kernel-PnP Warning The driver 'Driver\q57n60a field to load for the device PCIVEN_xxxx&DEV_xxxx&SUBSYS_xxxxxxxxxxx 219 When installing an OS with Rapid Setup This event does not affect system operation. 225 Kernel-PnP Warning The application YYY with process it di XXX stopped the removal o ejection for the device ZZZ. 225 Kernel-PnP Warning This event does not affect system operation. 226 When applying Standard Program Package This event does not affect system operation. 226 When applying Standard Program Package Intel(R) Ethernet Network Adapter E810-XXV-2 xxx 262 icea Error Intel(R) Ethernet Network Adapter E810-XXV-2 xxx 262 When SFP+/SFP28 module (N8104-189/ 190) or DA cable disconnected from optional LAN board (N8104-208/212). Confirm the SFP+/SFP28 module (N8104-189/ 190) or DA cable. 272 Icea Error Intel(R) Ethernet Network Adapter E810-XXV-2 xxx 272 When SFP+/SFP28 module (N8104-189/ 190) or DA cable. Confirm the SFP+/SFP28 module (N8104-189/ 190) or DA cable. 272 Icea Error Intel(R) Ethernet Network Adapter E810-XXV-2 xxx 272 When SFP+/SFP28 module (N8104-189/ 190) or DA cable. Confirm the SFP+/SFP28 module (N8104-208/212). 27				The driver Driver's 57nd 60n failed to load far the device
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Applying Standard Program Package.		link is down.		
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I	D	Source	Level	Message (Description)
	ID	Timing when an event is logged		Action

280	Microsoft-Windows-Hyper-V- VmSwitch	Warning	VMS Utilization Plan Vport QueuePairs adjusted from requested number (xx) to actual (xx). Reason:The number requested exceeds the maximum QPs per VPort supported by physical NIC. NIC Name:/DEVICE/{xxxxxxx-xxxx-xxxx-xxxx-xxxxx-xxxx}} (Friendly Name: xxxxx #xx). * x is a different depending on the LAN board.
200	When you create a virtual swit Switch Embedded Teaming (S When virtual switches using Embedded Teaming (SET) setting to a virtual machine ar machine or Hyper-V host is ref	ET) feature. the Switch feature is nd the virtual	This event does not affect system operation.
7000	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.
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 on the first startup and not recorded repeatedly.
10010	Microsoft-Windows- DistributedCOM	Error	The server {XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXXX
10010	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 Local 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.
10110	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.

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

10400	Microsoft-Windows-NDIS	Warning	The network interface "xxxxx" has begun resetting. There will be a momentary disruption in network connectivity while the hardware resets. Reason: The network driver detected that its hardware has stopped responding to commands. This network interface has reset xx time(s) since it was last initialized. * x is a different display name depending on the LAN board.
	When applying Standard Prog	ram Package	This event does not affect system operation.

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

Windows Server 2022 "Application Event Log"

	1		
86	Microsoft-Windows-Certificate ServicesClient-CertEnroll	Error	SCEP Certificate enrollment initialization for XXXXXXX via https://IFX-KeyId-5d0815951f5f60638a69e7252f3ec4becd7554b2. microsoftaik.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*******
1015	When restarting an OS		This event does not affect system operation if it is not recorded repeatedly after activating the Windows.
3007	EvntAgnt	Warning	Error opening event log file Parameters. Log will not be processed. Return code from OpenEventLog is 87.
	When SNMP is effective		Every restarting it's registered, it's no problem.
3007	EvntAgnt	Warning	Error opening event log file State. Log will not be processed. Return code from OpenEventLog is 87.
	When SNMP is effective		Every restarting it's registered, it's no problem.
8198	Microsoft-Windows- Security-SPP	Error	License Activation (slui.exe) failed with the following error code: hr=0x******* Command-line arguments: 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 ********.
	When installing an OS		This event does not affect system operation if it is recorded only on the first startup and not recorded repeatedly.
000	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.
	While the system is running		This event does not affect system operation if it is not recorded after connecting to the internet.
	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-002473-318-00	September 2023	The first edition