

Installation Guide (Windows Server 2016)

NEC Express Server Express5800 Series

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, R120h-1E (2nd-Gen) Express5800/R120h-2E, R120h-2E (2nd-Gen) Express5800/R110j-1M Express5800/T120h, T120h (2nd-Gen) Express5800/R110j-1, R110j-1 (2nd-Gen)

- Chapter 1 Installing Windows
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EXPRESSBUILDER E8.10-007.01 EXPRESSBUILDER E8.10-008.01 CBZ-002473-198-01 © NEC Corporation 2020

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Introduction

Thank you for purchasing our product.

When using the **EXPRESSBUILDER E8.10-007.01 (3.40.192)** or **EXPRESSBUILDER E8.10-008.01(3.50.100)**, see this manual before installing Windows. Please read carefully the instructions and keep this document for your future reference.

Conventions Used in This Document

Notations used in the text

The symbols used in this document include the following:

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

Optical disk drive

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

- DVD-ROM drive
- DVD Super MULTI drive

Hard disk drive

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

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

Removal Media

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

- USB Memory
- Flash FDD

Abbreviations of Operating Systems

Windows Operating Systems are referred to as follows.

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

Notations in this document	Official names of Windows
	Windows Server 2016 Standard
Windows Server 2016	Windows Server 2016 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/R120h-1M, R120h-1M (2nd-Gen), R120h-1M (3rd-Gen) Express5800/R120h-2M, R120h-2M (2nd-Gen), R120h-2M (3rd-Gen) Express5800/R120h-1E, R120h-1E (2nd-Gen) Express5800/R120h-2E, R120h-2E (2nd-Gen) Express5800/R110j-1M Express5800/R110j-1, R120h (2nd-Gen) Express5800/R110j-1, R110j-1 (2nd-Gen)

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zlib License

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.2, October 3rd, 2004

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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 2016
 Describes how to install Windows Server 2016.
- 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

Important

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

The product key on the Certificate of Authenticity (COA) label is necessary information when authenticate the license. Scrape off with a coin or the like lightly the scratch that covers a part of the product key. When you scrape, be careful not to break the part that the product key is printed on.



The label cannot be reissued if it is lost or stained. It is recommended to write down the product key and keep it with other accessories.

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.

http://www.58support.nec.co.jp/global/download/w2016/hyper-v/hyper-v-ws2016.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 2 (3. Details of EXPRESSBUILDER) in Maintenance Guide.

<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 : Assisted installation OS : Manual installation 							
		Boot	mode	Installation method			
Name of Windows OS		UEFI	Legacy	EB	OS		
Windows Server 2016 *	Standard	✓	N/A	~	~		
	Datacenter	\checkmark	N/A	\checkmark	✓		

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

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

	R120h-1M	R120h-2M	R120h-1M (2nd-Gen)	R120h-2M (2nd-Gen)	R120h-1M (3rd-Gen)	R120h-2M (3rd-Gen)
RAID controller supporting the instal	llation of OS a	t EXPRESSB	JILDER			
Onboard RAID Controller	~	✓	✓	✓	✓	~
N8103-189 RAID Controller (RAID 0/1)	~	~	~	~	~	~
N8103-190 RAID Controller (2GB, RAID 0/1/5/6)	~	✓	✓	✓	~	~
N8103-191 RAID Controller (4GB, RAID 0/1/5/6)	~	✓	✓	✓	✓	~
N8103-192 RAID Controller (RAID 0/1)	~	N/A	✓	N/A	~	N/A
N8103-193 RAID Controller (2GB, RAID 0/1/5/6)	~	N/A	~	N/A	~	N/A
N8103-194 RAID Controller (4GB, RAID 0/1/5/6)	~	N/A	~	N/A	~	N/A
N8103-195 RAID Controller (RAID 0/1)	~	~	~	~	~	~
N8103-201 RAID Controller (2GB, RAID 0/1/5/6)	~	~	~	~	~	~
Other options	•					
N8103-196 RAID Controller (2GB, RAID 0/1/5/6)	~	~	~	~	~	~
N8103-197 SAS Controller	~	~	~	~	~	~
N8190-163 Fibre Channel Controller (1ch)	~	~	✓	~	~	~
N8190-164 Fibre Channel Controller (2ch)	~	~	\checkmark	~	~	~
N8190-165 Fibre Channel Controller (1ch)	~	~	~	~	~	~
N8190-166 Fibre Channel Controller (2ch)	~	~	~	~	~	~
N8190-171 Fibre Channel Controller (1ch)	~	~	~	~	~	~
N8190-172 Fibre Channel Controller (2ch)	~	~	~	~	~	~

(2) Express5800/R120h-1E, R120h-1E (2nd-Gen), R120h-2E, R120h-2E (2nd-Gen)

	R120h-1E	R120h-2E	R120h-1E (2nd-Gen)	R120h-2E (2nd-Gen)			
RAID controller supporting the installation of OS at EXPRESSBUILDER							
Onboard RAID Controller	~	~	~	\checkmark			
N8103-189 RAID Controller (RAID 0/1)	N/A	~	N/A	✓			
N8103-190 RAID Controller (2GB, RAID 0/1/5/6)	N/A	~	N/A	\checkmark			
N8103-192 RAID Controller (RAID 0/1)	~	N/A	~	N/A			
N8103-193 RAID Controller (2GB, RAID 0/1/5/6)	~	N/A	~	N/A			
N8103-195 RAID Controller (RAID 0/1)	~	~	~	✓			
N8103-201 RAID Controller (2GB, RAID 0/1/5/6)	~	~	~	✓			
Other options							
N8103-196 RAID Controller (2GB, RAID 0/1/5/6)	~	~	~	\checkmark			
N8103-197 SAS Controller	~	~	~	\checkmark			
N8190-163 Fibre Channel Controller (1ch)	~	~	~	\checkmark			
N8190-164 Fibre Channel Controller (2ch)	~	~	~	\checkmark			
N8190-165 Fibre Channel Controller (1ch)	~	~	~	\checkmark			
N8190-166 Fibre Channel Controller (2ch)	~	~	~	\checkmark			
N8190-171 Fibre Channel Controller (1ch)	~	\checkmark	~	\checkmark			
N8190-172 Fibre Channel Controller (2ch)	~	~	~	\checkmark			

✓ : Supported

1

(3) Express5800/R110j-1M

	T120h			
RAID controller supporting the installation of OS at EXPRESSBUILDER				
Onboard RAID Controller				
N8103-192 RAID Controller (RAID 0/1)	\checkmark			
N8103-193 RAID Controller (2GB, RAID 0/1/5/6)	\checkmark			
Other options				
N8103-196 RAID Controller (2GB, RAID 0/1/5/6)	\checkmark			
N8103-197 SAS Controller	\checkmark			
N8190-163 Fibre Channel Controller (1ch)	\checkmark			

N8190-164 Fibre Channel Controller (2ch)	\checkmark
N8190-165 Fibre Channel Controller (1ch)	\checkmark
N8190-166 Fibre Channel Controller (2ch)	\checkmark
N8190-171 Fibre Channel Controller (1ch)	\checkmark
N8190-172 Fibre Channel Controller (2ch)	\checkmark

✓ : Supported

(4) Express5800/T120h, T120h (2nd-Gen)

	T120h	T120h (2nd-Gen)				
RAID controller supporting the installation of OS at EXPRESSBUILDER						
Onboard RAID Controller	✓	✓				
N8103-189 RAID Controller (RAID 0/1)	✓	✓				
N8103-190 RAID Controller (2GB, RAID 0/1/5/6)	✓	✓				
N8103-191 RAID Controller (4GB, RAID 0/1/5/6)	✓	✓				
N8103-195 RAID Controller (RAID 0/1)	✓	✓				
N8103-201 RAID Controller (2GB, RAID 0/1/5/6)	✓	✓				
Other options						
N8103-196 RAID Controller (2GB, RAID 0/1/5/6)	✓	✓				
N8103-197 SAS Controller	✓	✓				
N8190-163 Fibre Channel Controller (1ch)	✓	✓				
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)	✓	~				

(5) Express5800/R110j-1, R110j-1(2nd-Gen)

	R110j-1	R110j-1 (2nd-Gen)			
RAID controller supporting the installation of OS at EXPRESSBUILDER					
Onboard RAID Controller	~	~			
N8103-192 RAID Controller (RAID 0/1)	~	✓			
N8103-193 RAID Controller (2GB, RAID 0/1/5/6)	~	~			
Other options					
N8103-196 RAID Controller (2GB, RAID 0/1/5/6)	~	✓			
N8103-197 SAS Controller	~	\checkmark			
N8190-163 Fibre Channel Controller (1ch)	~	\checkmark			
N8190-164 Fibre Channel Controller (2ch)	~	\checkmark			
N8190-165 Fibre Channel Controller (1ch)	~	\checkmark			
N8190-166 Fibre Channel Controller (2ch)	~	\checkmark			
N8190-171 Fibre Channel Controller (1ch)	~	✓			
N8190-172 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/R120h-1M, R120h-1M (2nd-Gen), R120h-1M (3rd-Gen)

Express5800/R120h-2M, R120h-2M (2nd-Gen), R120h-2M (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	~	~	~	~	~	~
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	✓	~	~	~	~	~
N8104-187 Dual Port 25GBASE SFP28 Adapter	✓	~	~	~	~	~

(2) Express5800/R120h-1E, R120h-1E (2nd-Ger	n), R120h-2E, R120h-2E (2nd-Gen)
---	----------------------------------

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

(3) Express5800/R110j-1M

	R110j-1M
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	✓

(4) Express5800/T120h, T120h (2nd-Gen)

	T120h	T120h (2nd-Gen)
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	~	✓
N8104-187 Dual Port 25GBASE SFP28 Adapter	✓	✓

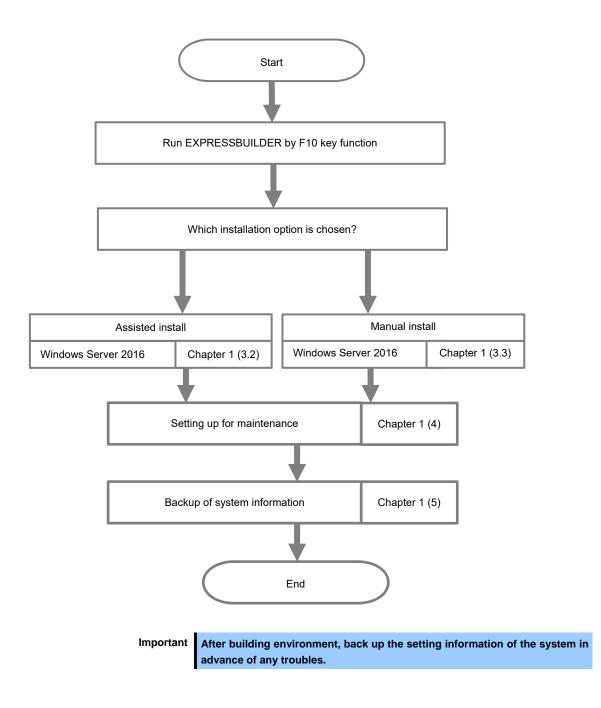
✓ : Supported

(5) Express5800/R110j-1, R110j-1 (2nd-Gen)

	R110j-1	R110j-1 (2nd-Gen)
N8104-171 Quad Port 1000BASE-T LOM Card	~	N/A
N8104-172 Quad Port 1000BASE-T LOM Card	\checkmark	N/A
N8104-173 Dual Port 10GBASE-T LOM Card	✓	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	N/A	~
N8104-185 Dual Port 10GBASE SFP+ Adapter	~	~
N8104-186 Dual Port 10GBASE SFP+ Adapter	N/A	~

2. Flow of Windows Installation

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



3. Installing Windows Server 2016

3.1 Precautions of Windows Server 2016 Installation

Read the precautions explained this section before installing.



: Assisted installation

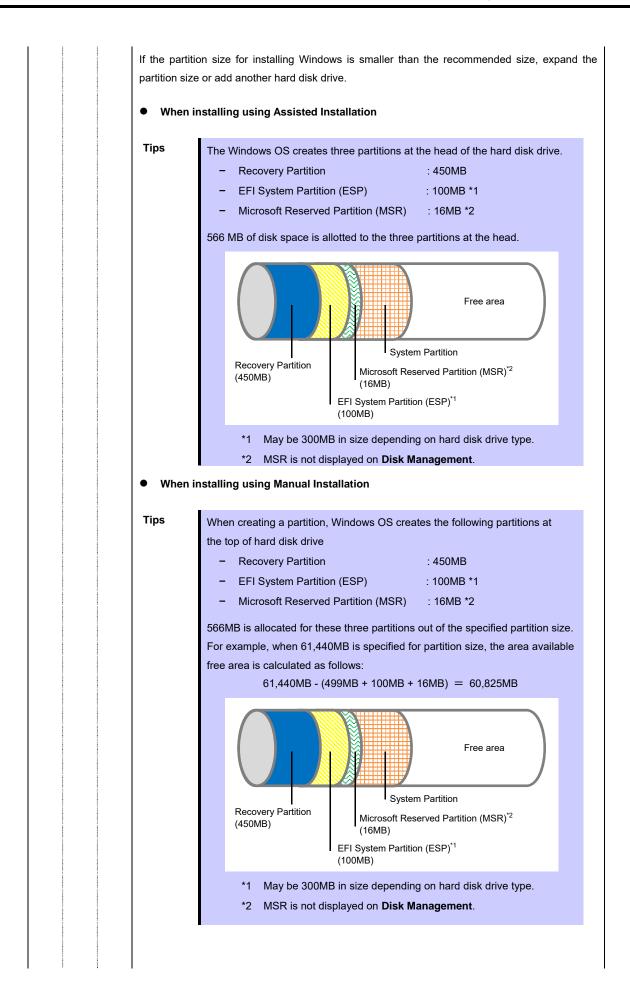
: Manual Installation

BIO	BIOS setting					
_	EB	OS	Change Boot Mode to UEFI Mode. For details, see <i>Chapter 2 (1. System Utilities)</i> in <i>Maintenance Guide.</i> System Configuration > BIOS/Platform Configuration (RBSU) > Boot Options > Boot Mode > UEFI Mode			
-	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			
_	_	08	R120h-1M,R120h-2M,R120h-1E,R120h-2E,T120h Change time zone to the Unspecified Time Zone. For details, see Chapter 2 (1. System Utilities) in Maintenance Guide. System Configuration > BIOS/Platform Configuration (RBSU) > Date and time > Time Zone : Unspecified Time Zone			
Harc		os	R120h-1M,R120h-2M,R120h-1E,R120h-2E,T120h Change time format to the Local Time. For details, see Chapter 2 (1. System Utilities) in Maintenance Guide. System Configuration > BIOS/Platform Configuration (RBSU) > Date and time > Time Format : Local Time			
		_	The following hardware configurations require special procedures.			
	EB	OS	Using RAID controller Before you install Windows Server 2016, if using a RAID controller, build the RAID system in advance according to the <i>Maintenance Guide</i> .			
_	ЕВ	OS	Installation When Multiple Logical Drives Exist If you select wrong hard disk drive in Windows Server 2016 installation, the setup may erase existing data unexpectedly. Refer to displayed disk capacity or partition size to find target hard disk drive.			
_	EB	08	Reinstalling to a mirrored volume When you install Windows Server 2016 in an environment with a mirrored volume created using Windows, disable mirroring before installing the operating system and enable it again after the installation. Use [Computer Management] – [Disk Management] to create, disable, or remove the mirrored volume.			

-		-	
	EB	OS	Peripherals such as RDX
			Remove a RDX device before installing. Some peripherals need to be halted before installation. Refer to the manual provided with the peripherals for how to set a device appropriate to
			installation.
	EB	OS	DAT, LTO, and similar media
			Do not set media that is unnecessary to installation during setup.
	ED	0.0	Reinstalling to dynamic disks
	EB	08	If the hard disk drive has been upgraded to a dynamic disk, the Windows cannot be
			reinstalled to it with the existing partitions. Install Windows with Manual Installation.
	EB	OS	
			Setup when mass memory is installed
			If mass memory is installed in your system, the large size of paging file is required at installation,
			and the partition size for storing debug information (dump file) cannot be allocated.
			If you fail to create the partition, allocate the required size to multiple disks according to the following steps.
			1. Set the system partition size to a size sufficient to install the OS and paging file.
			 Specify another disk as the destination to save the debug information (required dump file
			size) according to Chapter 1 (4. Setting up for Maintenance).
			If the hard disk drive does not have enough free area to write the debug information, set the
			partition size to a size sufficient to install the OS and paging file, and then add another hard disk
			drive for the dump file.
			Note If the partition size for installing Windows is smaller than the recommended
			size, expand the partition size or add another hard disk drive.
			If sufficient free area cannot be allocated for the paging file, perform either of the following after install Windows.
			 Specify a hard disk drive other than the system drive as the location to store
			the paging file for collecting memory dump
			Create a paging file of "installed memory size + 400 MB (installed memory size + 1,100 MB
			when the size is 4 TB or more)" or more in a drive other than the system drive.
			The paging file that exists in the first drive (in the order of drive letter C, D, E,) is used
			as the temporary memory dump location.
			Therefore, make sure that the size of the paging file that exists in the first drive is at
			least "installed memory size + 400 MB (installed memory size + 1,100 MB when the
			installed physical memory is 4 TB or more)".
			Paging files in dynamic volumes are not used for dumping memory. The setting is applied after restarting the system.
			Example of correct setting
			C : No paging file exists D : Paging file whose size is "installed memory size + 400 MB* " or more
			\rightarrow The paging file in drive D can be used for collecting memory dump
			because its size satisfies the requirement.
		•	

- E	
	C : Paging file whose size is smaller than the installed memory size D : Paging file whose size is "installed memory size + 400 MB* " or more
	→ The paging file in drive C is used for collecting memory dump, but collection may fail because the size of the paging file is smaller than the installed memory size.
	Example of incorrect setting 2
	C : Paging file whose size is "installed memory size x 0.5" D : Paging file whose size is "installed memory size x 0.5 E : Paging file whose size is 400 MB*
	→ The total paging file size in all drives is "installed memory size + 400 MB* ", but collection may fail because only the paging file in drive C is used for collecting memory dump.
	Example of incorrect setting 3
	C : No paging file exists D : Paging file whose size is "installed memory size + 400 MB* " or more (in dynamic volume)
	→ Paging files in a dynamic volume cannot be used for collecting memory dump. Thus, collecting memory dump fails.
L	This value is installed memory size +1,100 MB when the installed memory size is 4 TB or mo
_	acity a drive other than the system drive for "Dadiasted Dump File"
re	ecify a drive other than the system drive for "Dedicated Dump File". eate the registry shown below by using the Registry Editor and specify the na edicated Dump File.
cre De	eate the registry shown below by using the Registry Editor and specify the na
re	eate the registry shown below by using the Registry Editor and specify the na edicated Dump File. For example: "dedicateddumpfile.sys" in drive D>
Cre De	eate the registry shown below by using the Registry Editor and specify the na adicated Dump File. For example: "dedicateddumpfile.sys" in drive D>
re	eate the registry shown below by using the Registry Editor and specify the na edicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl
e	eate the registry shown below by using the Registry Editor and specify the na edicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile
;re e <f< td=""><td>eate the registry shown below by using the Registry Editor and specify the na edicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ Data : D:\dedicateddumpfile.sys</td></f<>	eate the registry shown below by using the Registry Editor and specify the na edicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ Data : D:\dedicateddumpfile.sys
;re e <f< td=""><td>eate the registry shown below by using the Registry Editor and specify the nate edicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ</td></f<>	eate the registry shown below by using the Registry Editor and specify the nate edicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ
cre e <f< td=""><td>eate the registry shown below by using the Registry Editor and specify the nate edicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ Data : D:\dedicateddumpfile.sys ote the following when specifying Dedicated Dump File:</td></f<>	eate the registry shown below by using the Registry Editor and specify the nate edicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ Data : D:\dedicateddumpfile.sys ote the following when specifying Dedicated Dump File:
Cre Cre Cre	eate the registry shown below by using the Registry Editor and specify the nate adicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ Data : D:\dedicateddumpfile.sys ote the following when specifying Dedicated Dump File: • The setting is applied after restarting the system.
re <f< td=""><td> eate the registry shown below by using the Registry Editor and specify the name indicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ Data : D:\dedicateddumpfile.sys ote the following when specifying Dedicated Dump File: The setting is applied after restarting the system. Specify a drive that has free space of "installed memory size + 400MB (instal memory size + 1,100 MB when the installed memory size is 4 TB or more) </td></f<>	 eate the registry shown below by using the Registry Editor and specify the name indicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ Data : D:\dedicateddumpfile.sys ote the following when specifying Dedicated Dump File: The setting is applied after restarting the system. Specify a drive that has free space of "installed memory size + 400MB (instal memory size + 1,100 MB when the installed memory size is 4 TB or more)
re <f< td=""><td> eate the registry shown below by using the Registry Editor and specify the naredicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ Data : D:\dedicateddumpfile.sys ote the following when specifying Dedicated Dump File: The setting is applied after restarting the system. Specify a drive that has free space of "installed memory size + 400MB (instamemory size + 1,100 MB when the installed memory size is 4 TB or more) more. </td></f<>	 eate the registry shown below by using the Registry Editor and specify the naredicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ Data : D:\dedicateddumpfile.sys ote the following when specifying Dedicated Dump File: The setting is applied after restarting the system. Specify a drive that has free space of "installed memory size + 400MB (instamemory size + 1,100 MB when the installed memory size is 4 TB or more) more.
e F	 eate the registry shown below by using the Registry Editor and specify the namedicated Dump File. For example: "dedicateddumpfile.sys" in drive D> Key : HKEY_LOCAL_MACHINE\SYSTEM \CurrentControlSet\Control\CrashControl Name : DedicatedDumpFile Type : REG_SZ Data : D:\dedicateddumpfile.sys ote the following when specifying Dedicated Dump File: The setting is applied after restarting the system. Specify a drive that has free space of "installed memory size + 400MB (instal memory size + 1,100 MB when the installed memory size is 4 TB or more) more. Dedicated Dump File cannot be placed in dynamic volumes.

Sys	tem pa	rtition	size		
_	EB	08	The system partition size can be calculated by using the following formula.		
			Size required to install the OS + paging file size + dump file size + application size		
			Desktop Experience		
			Size required to install the OS	= 15,200 MB	
			Paging file size (recommended)	= installed memory size x 1.5	
			Dump file size	 installed memory size + 400MB (installed memory size is 4 TB or less) installed memory size + 1,100MB (installed memory size is exceeding 4 TB) 	
			Application size	= as required by the application	
			Server Core		
			Size required to install the OS	= 10,300MB	
			Paging file size (recommended)	= installed memory size x 1.5	
			Dump file size	 installed memory size + 400MB (installed memory size is 4 TB or less) 	
				 installed memory size + 1,100MB (installed memory size is exceeding 4 TB) 	
			Application size	= as required by the application	
			Ensure that the partition size is sufficient for	minimum partition size required for system installation. or system operations.	
			The following partition sizes are recommer		
			• •	/68MB(32GB) or more /68MB(32GB) or more	
			*1GB = 1,024MB		
			 information (dump file). T must be large enough to Make sure you set a suffi there will be a virtual men collect correct debug info Regardless of the sizes of maximum size of the dum memory size + 1,100 MB 	icient paging file size. If the paging file is insufficient, mory shortage that may result in an inability to ormation. f internal memory and write debug information, the p file is "installed memory size + 400 MB (installed when installed memory size is 4 TB or more)". olications or other items, add the amount of space	



Window	Windows Server 2016 Hyper-V support				
	EBOS	Refer to the following web site for information related to Windows Server 2016 Hyper-V. http://www.58support.nec.co.jp/global/download/w2016/hyper-v/hyper-v-ws2016.html			
Using I	BitLocker				
	EBOS	BitLocker.	he recovery password secure. Do not keep it near a server running		
		content	covery password is not entered, the OS cannot be started, and the of the partition encrypted by BitLocker cannot be referenced any he recovery password might be required at startup of the OS after owing: 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.		
		•	rating system into a partition that is encrypted with BitLocker, delete the dispartition prior to reinstallation.		
Suppor	rt for NIC t	eaming in Windows S	Server 2016		
	EB OS	built into Windows Se balancing and failover (re, which used to be provided by network interface card (NIC) vendors, is rver 2016. In Windows Server 2016, this feature is also called "load LBFO)". 7 Setup of Windows Server 2016 NIC Teaming (LBFO) and specify any		

3.2 Assisted Installation

This section describes how to install Windows Server 2016 with Assisted option.

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

Start
3.1 Precautions of Windows Server 2016 Installation
3.2 Assisted Installation
3.4 Standard Program Package Installation
3.5 Setup of Device Drivers
3.6 License Authentication
3.7 Setup of Windows Server 2016 NIC Teaming (LBFO)
3.8 Installing Applications
4 Setting up for Maintenance
5 Backup of system information
End of Assisted installation

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 2016 DVD-ROM)
- Starter Pack
 - Starter Pack DVD (Optional or downloading from our website)
 - $\rightarrow\,$ The Starter Pack which supports Windows Server 2016 is "S8.10-007.02" or later. Download it from Web site.

3.2.3 Installation procedure

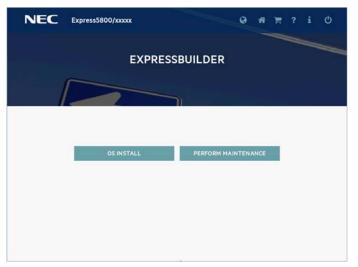
Note

Read the precautions in *Chapter 1 (3.1 Precautions of Windows Server 2016 Installation)* in advance.

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

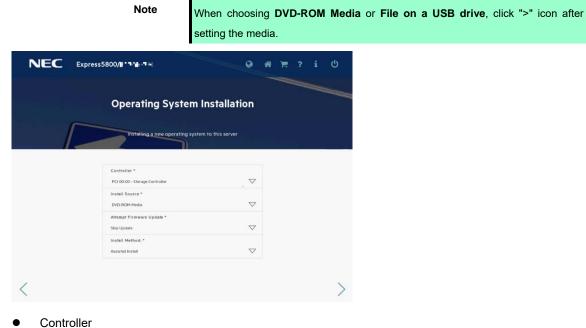


For details of EXPRESSBUILDER and "FIRST TIME SET UP WIZARD", see Chapter 2 (3.Deltails of EXPRESSBUILDER) in Maintenance Guide. 3. The next screen is displayed, click OS INSTALL.



4. Choose Assisted Install of Install Method.

Specify the following if necessary, and then click the ">" icon of the lower right of the screen.



Choose the controller of installation destination.

Install Source

Choose an OS installation source from the following types.

DVD-ROM Media	DVD-ROM
File on a USB drive	USB flash drive
SMB/CIFS (Windows Share)	Network sharing folder
An anonymous FTP server	This option is not available.
Internet repository	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
	Elek a standard falder (file structure

Flat: a standard folder/file structure ISO: single ISO or UDF file

- Attempt Firmware Update Choose **Skip Update**. The other options are not available.
- Install Method Choose Assisted Install.
- 5. Choose an OS source media depending on the media type of Install Source chosen at step 4.

DVD-ROM Media	Automatically detects on OS installation media. If the detection fails, return to step 4 and retry.
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

6. On the following screen, specify settings for the OS installation. Set your time zone.

iperating System Icrosoft Windows Server 2019 Standard (Desktop Experience) 🗸 🗸	OS Language English (US)
omputer Name	OS Keyboard English (US)
rganization Name	Time Zone (GMT-12:00) International Date Line West
wner Name	Install the HyperV role on this system
assword	Enable Windows Firewall
confirm Password	

- You can enable the functions of Windows, if necessary.

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

Note

Password can be used alphanumeric characters only. If a sign (such as "!") is included, an error message will appear.

7. On the following screen, specify setting of partitions for OS installation.

	oress5800/#11.7. +	(Э	ñ	F			
fect OS drive and set partition								
Manual confi	gure partition							
Select one following driv	e to configure as OS drive						\bigtriangledown	
	All the partitions will be default configured b	y the selected operation system	n. /					
								>
	Tips	• Specify	y th	ie a	iny	part	ition	ı size,

- Specify the any partition size, and then select Manual configure partition.
 When not choosing "Manual configure partition", the OS is installed using all area of a hard disk drive.
- 8. Confirm the settings.

Windows Microsoft Windows Sm OS Language OS Keyboard English (US) English (US)	ver 2019 Stand: Assisted install Time Zone (GHT-12:00) International Date Li
Install the HyperV role on this system	Enable Windows Firewall
Computer Name Organization Name srcss00c1s40	Owner Name
D Configuration	
Remote Deploy	

9. When the following screen is displayed, the setting is complete. Click **LAUNCH NOW** to start installation.

NEC Express5800/xxxxx	0	?	i	ወ
Job Configuration Viewer				
LAUNCH NOW ADD ANOTHER JOB				
1 Jobs are waiting to be processed Express OS Install			DE	LETE

10. When copying is complete, the system restart automatically.

	NEC	Express5800/xxxxx			0		Φ	
Jot) Viewer							
	Server Status							
	O Server Booted							
	Job Status							
	CExpress OS Instal	i.	Copying (2/27).	758	<i>.</i> 1	_		

11. Confirm the license terms.

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

-		
6	🔾 🚮 Windows Setup	
	Applicable notices and license terms	
	IMPORTANT NOTCE (followed by LICENSE TERMS) Diagnostic and Usage Information. Microsoft automatically collects this information over the internet, and uses it to help improve your installation, upprade, and user experience, and the quality and security of Microsoft products and services. Consider with these purposes, the information may be associated with your organization. Windows Server 2016 has four (4) information collection setting County, Back, Foldmond, and Fully, and uses the "Enhanced" setting by default. This level includes information technologies; (ii) understand device quality, and application usage and compatibility and (iiii) definity audity issues in the use and performance of the operating system and applications.	×
		liet
		Alexandro and a second s

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

🕌 Windows Setup	
Installing Windows	
Copyleg Windows files (0%) Getting files ready for installation Installing features Installing updetes Finishing up	

12. The following screen appears depending on the setting of Step 6.

Desktop Experience

Type a password and click **Finish**.

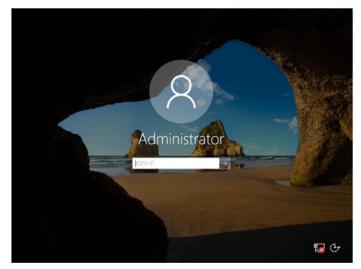
Customize	settings		
Type a password for th	e built-in administrator account that	you can use to sign in to this computer.	
User name			
Password	1		
Reenter password			
(1,			Finish
Ŭ			

Tips If you entered a password in step 6, this screen is not displayed.

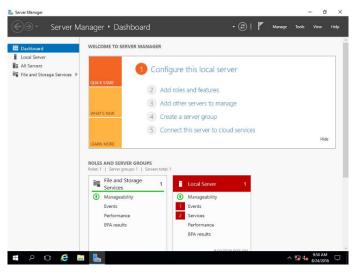
Press <Ctrl> + <Alt> + <Delete> key to unlock.



Enter the password and press <Enter> key.



Windows Server 2016 starts.



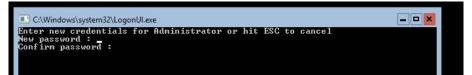
Server Core

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



The next two screens do not appear when the password is set at step 6.

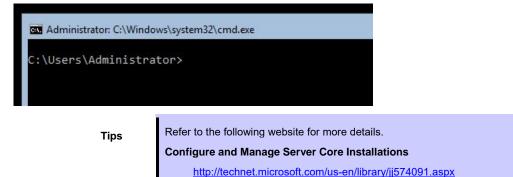
Type a new password and press <Enter> key.



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



Windows Server 2016 starts.



13. After signing in, installation automatically resumes.

After installation is complete, the system automatically restarts.

- 14. See Chapter 1 (3.4 Standard Program Package Installation) to install SPP.
- 15. Install drivers and specify detailed settings according to Chapter 1 (3.5 Setup of Device Drivers).
- 16. Confirm if Windows is activated according to Chapter 1 (3.6 License Authentication).
- 17. See Chapter 1 (3.7 Setup of Windows Server 2016 NIC Teaming (LBFO)) to setup a team as needed.
- 18. Install the applications as needed according to Chapter 1 (3.8 Installing Applications).
- 19. Set the other OS settings according to Chapter 1 (4. Setting up for Maintenance).
- 20. See Chapter 1 (5. Backup of system information) to back up the system.
- 21. Make sure that the attribute of recovery partition is correct by referring to the website of "EXPRESSBUILDER E8.10-007.01".

See the "Steps to recover the Windows recovery partition (Windows RE) attribute" of the website.

The Windows installation with Assisted option is now complete.

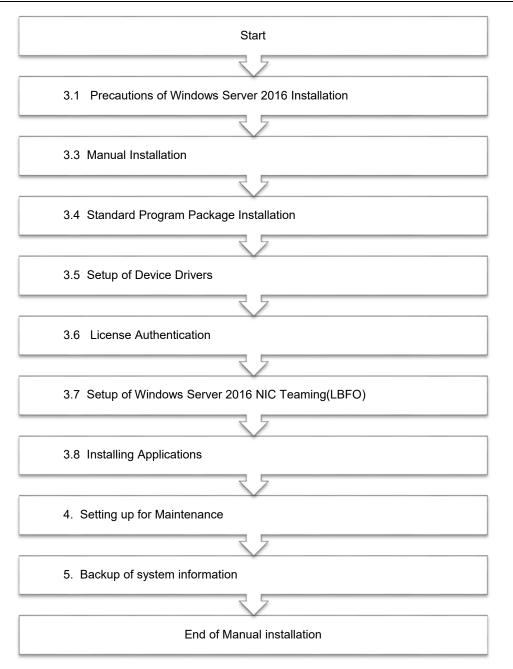
3.3 Manual Installation

This section describes how to install Windows Server 2016 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 2016 DVD-ROM)
- Starter Pack
 - Starter Pack DVD (Optional or downloading from our website)
 - $\rightarrow\,$ The Starter Pack which supports Windows Server 2016 is "S8.10-007.02" or later. 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\007\drivers\sw_raid1_driver

3.3.3 Installation procedure

Note

Read the precautions in *Chapter 1 (3.1 Precautions of Windows Server 2016 Installation)* in advance.

- Turn on peripherals (such as a display), and then turn on the server. Insert OS installation media into the drive.
- To run EXPRESSBUILDER, press <F11> key during POST.
 On the **One-Time Boot Menu**, select the optical disk drive in which the OS installation media was inserted.
- 3. The system starts from the OS installation media

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



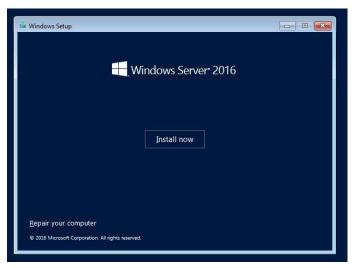
Note

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.

Windows Setup	
Windows Server [®] 2016	
Language to install: English (United States)	<u> </u>
Time and currency format: English (United States)	
Keyboard or input method: US	
Enter your language and other preferences and click "Next"	to continue.
© 2016 Microsoft Corporation. All rights reserved.	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.

Loading the driver
The necessary media driver for the PC in use could not be found. Types of media drivers include DVD, USB, and hard disk drivers. If you have a DC, DVD, or USB flash drive with the driver stored, please insert it.
Note: If the Windows installation media is stored in the DVD drive or the USB drive, it can be removed for this step.
Browse (B) OK Cancel

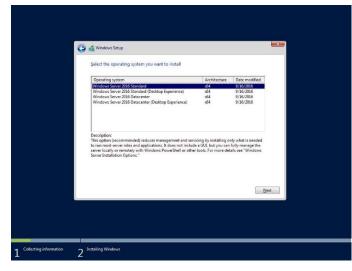
6. After connecting the removable media where the onboard RAID controller driver was copied, specify the path and click **OK**.

<Removable media>:\sw_raid1_driver

- 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**.

 Collecting information 			
	2 ^{Installing Windows}		
	Privacy statement	I don't have a product key Next	
	[1		
	The product key looks like this: XXXXX-XXX If you're reinstalling Windows, select I don automatically activated later.	000-00000-00000-00000 't have a product key. Your copy of Windows will be	
	email you received after buying a digital o Windows came in.	opy of Windows or on a label inside the box that	
	Activate Windows If this is the first time you're installing Win	dows on this PC (or you're installing a different edition), t key. Your product key should be in the confirmation	
	🔘 🗳 Windows Setup		

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 2016 Standard or Windows Server 2016 Datacenter
	\rightarrow Described as "Server Core" by this manual
•	Windows Server 2016 Standard (Desktop Experience) or Windows
	Server 2016 Datacenter (Desktop Experience)
	ightarrow Described as "Desktop Experience" by this manual

10. Read the license terms carefully.

If you agree, check I accept the license terms and click Next.

11. Select Custom: Install Windows only (advanced).

G	🔏 Windows Setup	
	Which type of installation do you want?	
	Upgrade: Install Windows and keep files, settings, and applications The files, settings, and applications are moved to Windows with this option. This option is only available when a supported version of Windows is already running on the computer.	
	Custom: Install Windows only (advanced) The files, utilings, and applications aren't moved to Windows with this option. If you want to make changes to partitions and drives, start the computer using the installation due. We recommend backing up your files before you continue.	
	jdejp me decide	

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

- 13. After setting the Starter Pack DVD in the UBS-DVD drive, assign a file directory, and click OK.
 - Onboard RAID Controller

<Starter Pack DVD>:\software\007\drivers\sw_raid1_driver

- RAID Controller (N8103-189/190/191/192/193/194/195/201)

<Starter Pack DVD>:\software\007\drivers\dac1_driver

-

- 14. Select the following driver from the displayed list of drivers, and click Next.
 - onboard RAID Controller : HPE Smart Array S100i SR Gen10 SW RAID
 - RAID Controller (N8103-189/192) : HPE Smart Array E208i-a SR Gen10
 - RAID Controller (N8103-190/193) : HPE Smart Array P408i-a SR Gen10
 - RAID Controller (N8103-191/194) : HPE Smart Array P816i-a SR Gen10
 - RAID Controller (N8103-195) : HPE Smart Array E208i-p SR Gen10
 - RAID Controller (N8103-201) : HPE Smart Array P408i-p SR Gen10
- 15. Click New. If the partition is already created, proceed to step 18.

Where do you wa		dows? Total size 64.0 MB	Free space Type 64.0 MB		
Drive 2 Partitio	on 1: Recovery	511.0 MB 300.0 MB 279.1 GB	416.0 M8 Primary 56.0 M8 Recovery 279.1 68		
fy Estrech @ Lond driver	X Delate 2 Listend	P Eormat	Hp=		

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

Name	,	lotal size I	ree space Type		
Drive 1 Unallocated Space Image: Drive 2 Partition 1: VID		64.0 MB	64.0 ME 416.0 ME Primar		
Drive 3 Partition 1: Recovery		100.0 MB	56.0 MB Recove		
Drive 3 Unallocated Space	4	279.1 GB	2791 68	-	
fy Beliech X Delete	@Esrm	ut -	· Ngw	- 1	
@ Load driver 2 Latens	i Şox	\$85801 ±	MB Apply	Cancel	
				Net	

17.

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

Windows Setup	
To ensure that all Windows features additional partitions for system files.	work correctly, Windows might create
	OK Cancel
Tips	When creating a partition, the OS creates the following partitions at top of the hard
	disk drive.
	 Recovery Partition
	 EFI System Partition (ESP)
	 Microsoft Reserved Partition (MSR)
Select the partition created in st	ep 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.
	Windows Setup Image: A strain of the partition might contain important files or applications from your computer manufacturer. If you format this partition, any data stored on it will be lost. Image: A store of the partition of the partin of the partition of the partition of the pa

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

Done 3 Partian 1. Recovery 200 DMB S6.0 MB Recovery Done 3 Partian 2. Recovery Control Partian 2. Recovery Done 3 Partian 3 100 DMB S50 MB System Done 3 Partian 3 Done 3 Partian 3 Done 3 Partian 3 Done 3 Partian 3 ZPE 5 GB ZPE 5 GB Primary Partian Control Contro Contro Contro Control Control	 lame	Total size 300.0 MB	Free space		^
					÷. 1
← Dirks 3 Partition 4 16.0 MB 16.0 MB MSR (Reserved) ↓ Dirks 3 Partition 5 278 5 GB 278 5 GB Primary 4g Edmon ★ Dirks ✓ Esmont				1000	
		278.5 GB	278.5 G8	Primary	
			ф Np		

Tips

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

If Starter Pack DVD is in the drive, change it to the OS disk, and then click Refresh.

When the following message appears, Windows installation starts automatically.

	Mindows Setup
	Installing Windows
	Status
	Copying Windows Hite (05) Control yoli mutakalaan Markana Markana Markana Dekalang up
1 Collecting information 2	Installing Windows

The server will automatically restart after Windows Server 2016 is installed. You will proceed to Windows setup after restart.

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

Desktop Experience

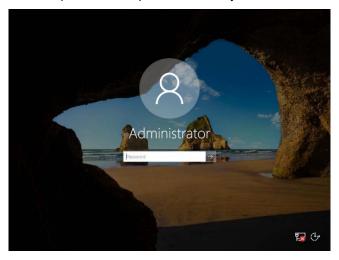
Type a password and click Finish.

lype a password for th	he built-in administrator a	account that you can u	ise to sign in to this co	omputer.	
Jser name	Administrator				
Password	1				
Reenter password					

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



Enter the password and press <Enter> key.



Windows Server 2016 starts.

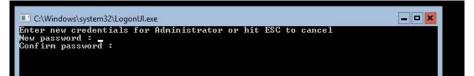
0	anager • Dashb		Manage Tools View Help
Dashboard Local Server All Servers File and Storage Services		Configure this local server	
	QUICK START	 Add roles and features Add other servers to manage 	
	WHAT'S NEW	 Create a server group Connect this server to cloud service: 	5 Hide
	LEARN MORE		
	ROLES AND SERVER Roles: 1 Server group:		
		s 1 Servers total: 1	
	Roles: 1 Server group: File and Stor Services Manageability Events	age 1 Server total:	
	Roles: 1 Server group: File and Stor Services Manageability	age 1 Local Server 1 Manageability	

Server Core

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



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.	
Administrator Your password has been changed. Ok	

Windows Server 2016 starts.



- 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 2016 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.

Standard Program Package Installation 3.4

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

Make sure to install SPP before running the server system. Imp

portant	•	Make sure to update firmware by booting "Starter Pack DVD" before
		applying Standard Program Package. If you mistake procedure, the
		system may not start.
	•	After attaching the internal option, application of Standard Program
		Package may be required. For details, see Chapter 1 (3.5. Setup of

Device Drivers).

3.4.1 Installing Standard Program Package on Desktop Experience

- Sign-in to the Windows with an Administrators privilege. 1.
- Set the Starter Pack DVD to the drive. 2.

Note	• When the N8104-173/182/185 is installed to the server,
	run \packages\cp040875.exe on the DVD.
	Although the message indicated that the latest version has already been
	installed may be displayed, proceed with the installation.
	After that, restart the server.
	• When the N8104-177/183/187 is installed to the server,
	run \packages\cp039900.exe on the DVD.
	Although the message indicated that the latest version has already been
	installed may be displayed, proceed with the installation.
	After that, restart the server.
	• When the R120h-1M / R120h-1M (2nd-Gen) / R120h-2M / R120h-2M
	(2nd-Gen) / R110j-1 standard LAN adapter or N8104-171/178/179 is
	installed to the server, run \packages\cp042633.exe on the DVD.
	Although the message indicated that the latest version has already been
	installed may be displayed, proceed with the installation.
	After that, restart the server.
	• When N8103-189/190/191/192/193/194/195/196/197/201 is installed to the
	server, \packages\cp041257.exe on the DVD to install the driver.
	After that, restart the server.

3. Run the start_up.bat under the root folder on DVD. 4. Click Integrated Installation on the menu.



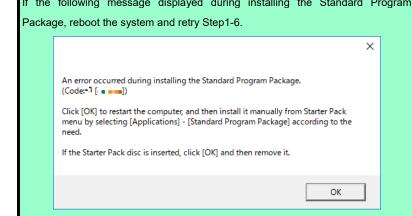
5. Choose Standard Program Package on the following screen, and then click Install.

Integra	ted Installation			
Install the - Install St - Upinstall	following software. andard Program Package prior to ir the application prior to reinstalling	estalling the application.		
	l Program Package			
Стррика				
	SMPRO ServerAgentService	Rev2.0	Not installed	
	ss Report Service	Rev3.5E Bex3.8	Not installed	
	ss Report Service (HTTPS) Report Service	Rev3.8 Rev1.00 (3459)	Not installed	
	report Service et Info Collection Utility	Rev3.0.5	Not installed	
-	ful Interface Tool	Rev2.0.0.0	Not installed	
		11010-000	The state of the	
			la la	stall
i				

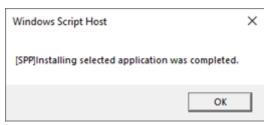
6. If you had updated firmware beforehand, click **OK** to start the installation of Standard Program Package.

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

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



7. Click OK.



8. Windows Server 2016 restarts automatically.

Then, remove the Starter Pack DVD.



SPP installation is now complete.

3.4.2 Installing Standard Program Package on Server Core

- 1. Sign-in to the Windows with an Administrators privilege.
- 2. Set the Starter Pack DVD to the drive.

Note	•	When the N8104-173/182/185 is installed to the server,
		run \packages\cp040875.exe on the DVD.
		Although the message indicated that the latest version has already been
		installed may be displayed, proceed with the installation.
		After that, restart the server.
	•	When the N8104-177/183/187 is installed to the server,
		run \packages\cp039900.exe on the DVD.
		Although the message indicated that the latest version has already been
		installed may be displayed, proceed with the installation.
		After that, restart the server.
	•	When the R120h-1M / R120h-1M (2nd-Gen) / R120h-2M / R120h-2M
		(2nd-Gen) / R110j-1 standard LAN adapter or N8104-171/178/179 is
		installed to the server, run \packages\cp042633.exe on the DVD.
		Although the message indicated that the latest version has already been
		installed may be displayed, proceed with the installation.
		After that, restart the server.
	•	When N8103-189/190/191/192/193/194/195/196/197/201 is installed to the
		server, \packages\cp041257.exe on the DVD to install the driver.
		After that, restart the server.

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\007\win\seamless

C:\Users\administrator>cd /d D:\software\007\win\seamless

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

instcmd.vbs spp /s

D:\software\007\win\seamless >instcmd.vbs spp /s

OK

5. 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 can i Package(SPP) by using this	e updating the BIOS/FW included omes failing to boot.
	OK Cancel
Note	If the following message displayed during installing the Standard Program Package, reboot the system and retry Step1-5.
	×
	[SPP]Application setup failed.(Code:

6. Click OK.

Windows Script Host	×
[SPP]Installing selected application was complete	ed.
ОК	

7. After removing the Starter Pack DVD, restart Windows Server 2016 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 onboard network adapters and
	N8104-171/172/173/175/193/194/195 only. Wake On LAN is available after
	installing the LAN driver.
	For Wake On LAN of R120h-1E / R120h-1E (2nd-Gen) / R120h-2E / R120h-2E
	(2nd-Gen) / T120h / T120h (2nd-Gen) / R110j-1M / R110j-1 (2nd-Gen) onboard
	network adapters and N8104-172/175/193/194/195, when using Wake On LAN
	see Chapter 1 (3.5.2 Setting up LAN drivers - (3) Setting up Wake on LAN).
	BIOS settings, check Maintenance Guide.
Note	 To change the LAN driver settings, sign in to the system from a local console using an administrator's account. Remotely changing the settings by using the operating system's remote desktop feature is not supported.
	 Choose the Internet Protocol (TCP/IP) check box when specifying an IP address.

(2) Optional LAN board

This server supports the following optional LAN boards.

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
R120h-1E R120h-2E	N8104-171/172/173/175/176/177/178/179/180/181/182/183/184/185/186/187/ 193/194/195
R120h-1E (2nd-Gen) R120h-2E (2nd-Gen)	N8104-178/179/180/181/182/183/184/185/186/187/193/194/195
R110j-1M	N8104-178/179/180/181/182/183/184/185/186
T120h T120h (2nd-Gen)	N8104-178/179/180/181/182/183/184/185/186/187
R110j-1	N8104-171/172/173/178/179/180/181/182/185
R110j-1 (2nd-Gen)	N8104-178/179/180/181/182/183/185/186

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.

- Network adapters for the standard configuration

R120h-1M R120h-1M (2nd-Gen) R120h-2M R120h-2M (2nd-Gen)	HPE Ethernet 1Gb 4-port 331i Adapter #xx(*1)
R120h-1E R120h-1E (2nd-Gen) R120h-2E R120h-2E (2nd-Gen)	HPE Ethernet 1Gb 2-port 368i Adapter #xx(*1)
R110j-1M	HPE Ethernet 1Gb 2-port 368i Adapter #xx(*1)
T120h T120h (2nd-Gen)	HPE Ethernet 1Gb 4-port 369i Adapter #xx(*1)
R110j-1	HPE Ethernet 1Gb 2-port 332i Adapter #xx(*1)
R110j-1 (2nd-Gen)	HPE Ethernet 1Gb 2-port 361i Adapter #xx(*1)

If connecting with an optional LAN board:

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

Tips

The ID for N8104-173/177/182/183/185/187 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.
	1. Start Device Manager.
	2. Open Network Adapters, right click on the relevant adapter, and select
	Delete.
	Do not check the Delete the driver software of this device checkbox.
	3. 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.

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.
- 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 Transmit/Receive of the network adapter should match those of the destination device. For example, if Flow Control in the destination device is set as Receive only, that in the server should be set as Transmit only.

- 1. Open the **Device Manager**.
- Expand Network Adapters, and then double-click the name of the network adapter you want to configure. The properties of the network adapter will be displayed.
- 3. Open Advanced tab, click Flow Control to show Value.
- 4. The Value can be changed by the down-arrow button.
- 5. Click **OK**, and then restart the system.

The Flow Control setting is now complete.

(3) Setting up Wake on LAN

When using R120h-1E / R120h-1E (2nd-Gen) / R120h-2E / R120h-2E (2nd-Gen) / T120h / T120h (2nd-Gen) / R110j-1M / R110j-1 (2nd-Gen) onboard network adapters and N8104-172/175/193/194/195 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.
- 5. Click **OK**, and then restart the system.

Setup is now complete.

3.5.3 Using Graphics Accelerator

The drivers are installed by Standard Program Package.

3.5.4 Using SAS Controller (N8103-197)

The drivers are installed by Standard Program Package.

If you install the SAS controller (N8103-197) after installing Standard Program Package, install Standard Program Package again according to *Chapter 1 (3.4 Standard Program Package Installation)*.

3.5.5 Using RAID Controller (N8103-189/190/191/192/193/194/195/196/201)

The drivers are installed by Standard Program Package.

If you install the RAID controller (N8103-189/190/191/192/193/194/195/196/201) after installing Standard Program Package, install Standard Program Package again according to *Chapter 1 (3.4 Standard Program Package Installation)*.

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

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)*.

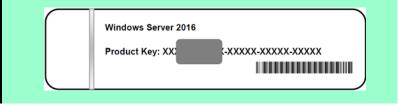
3.6 License Authentication

To use Windows Server 2016, you need finish the license authentication procedure.

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

Note

To activate Windows Server 2016, enter the Product Key written on the COA (Certificate of Authenticity) label. The COA label of Windows Server 2016 is attached to the operating system media package.



3.6.1 Desktop Experience

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

Recycle Bin	
Apps and Enthures Power Options	
System Device Manager	
Network Connections	
Disk Management Computer Management	
Windows PowerShell Windows PowerShell (Admin)	
Jack Manager Settings	
File Explorer Search	
Bun	
Shyt down or sign out > Desktop	^₽4 <mark>-</mark> ₽

2. Check Windows license authentication.

When "Windows is activated." is displayed, you do not need to perform this procedure. The authentication is complete.

When "Connect to the internet to activate Windows." is displayed, go to step 3.

			See als Securi	intenance	Computer description: Workgroup: Windows activation Connect to the Internet Product ID: 00000-0000	P ad the Microsoft Software Licens	e Terms vate Windows	v		
-	Q	Ø	e				^ ⊒	1 11:4	3 AM /2016	

4.

3. Click Activate Windows.

See also	Windows activation Connect to the Interne	t to activate	Windows. Read the Microsoft Soft	ware License Terms		
Security and Maintenance	Product ID: 00000-000	00-00000-000	00	🗣 Activate Windows 🗸		
Perform license aut	thentication.			,		
Settings				- 🗆 X		
😳 Home	W	indows				
Find a setting	ب Edit	ion	Windows Server 2016 Stan	dard		
Update & security	Acti	vation	Unable to reach Windows Learn more	activation servers		
	Pro	duct Key	XXXXX-XXXXX-XXXXX-XXX	XX-XXXX		
Windows Defender	Ac	tivate \	Windows now			
③ Recovery	-		w product key, select change	e product key.		
 Activation 	C,	Change	product key			
H For developers		ou're havin and fix the	g problems with activation, problem.	select Troubleshoot to		
	P	Troubles	hoot			

When the server connects to the Internet, click **Change product key**. Complete license authentication process according to the message.

When the server does not connect to the Internet, go to step 5.

5. 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 6.

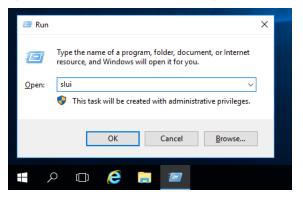
Windows Server 201	6 DVD-ROM:
--------------------	------------

Product key is <u>already entered</u> :	Go to Step 9.
Product key is <u>not entered</u> :	Go to Step 6.

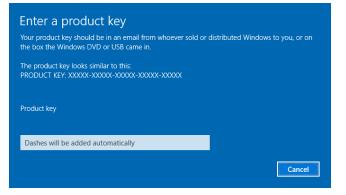
6. Right-click the lower left of the screen, and click **Run** from the menu displayed.

Task Manager	
Control Panel	
File Explorer	
Search	
Run	
Shut down or sign out	
Desktop	
ዶ 🖽 렪 🔚	

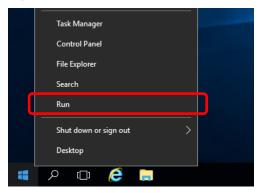
7. Type "slui", and then press <Enter> key.



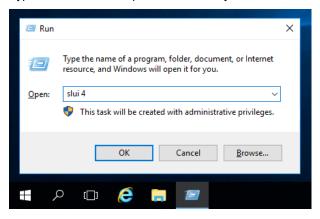
8. Change the product key. On the next screen, type the product key.



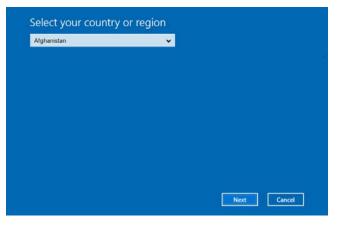
9. Right-click the lower left of the screen, and click Run from the menu displayed.



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



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



Get the installation ID required for license activation.

								ion ID (IID). Som es or regions.
Toll free: not availa								
Toll: (971) (4) :	391 7000							
Installati	on ID:							
0000000	0000000	0000000	0000000	0000000	0000000	0000000	0000000	0000000

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

Type the confirmation ID, and then click Activate Windows.

Enter y			on ID you what to r	enter.			
A	B	c	D	E	F	G	н
1							
				[Activate W	indows	Cancel

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 2016 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 <code>%systemroot%\system32\sppui\phone.inf</code> 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 2016 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	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 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.

Refer to the following website for the latest information.

http://www.58support.nec.co.jp/global/download/w2016/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**.

Tips

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	
0	Versions	
F	Integrated Installation	
	Applications	
	Exit	
		Version S8.10-001.01(001)

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

Starter Pack					
Starter	r Pack		NEC	:	
	Integrated Installation			1	
	Install the following software. – Install Standard Program Package prior to – Uninstall the application prior to reinstall	o installing the application. ing the application.		-	
(i)	Applications INEC ESMPRO ServerAgentService	Rev2.0	Not installed	1	
	Express Report Service	Rev3.5E	Not installed		
	Express Report Service (HTTPS)	Rev3.8	Not installed		
9	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		
				\mathbf{P}	
			Install		
	Note	 Applications a 	available for installation	n are chosen by defa	ault.
		If your overem	onvironment dage no	t action the proroad	unite for an application
		I your system	r environment does no	or satisfy the prefequ	isite for an application,
		you cannot in	stall it. For details, see	e the on-screen infor	mation and the manual
		of each applic	cations.		

• 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.

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

Now installation of applications is complete.

4. Setting up for Maintenance

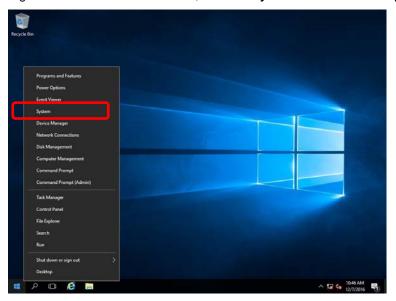
We recommend setting up the following features for maintenance.

4.1 Specifying Memory Dump Settings (Debug Information)

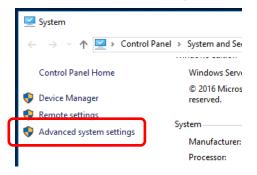
This section explains the procedures for collecting a memory dump (debug information) in the server.

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

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



2. Click Advanced system settings.



3. In Startup and Recovery, click Settings.

System Properties	\times
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	
<u>S</u> ettings	
User Profiles Desktop settings related to your sign-in	
S <u>e</u> ttings	
Startup and Recovery System startup, system failure, and debugging information	
Settings	J
Enviro <u>n</u> ment 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 2016 ✓ Time to display list of operating systems: 30 • Time to display recovery options when needed: 30 • seconds	
System failure Write an event to the system log Automatically restart Write debugging information Automatic memory dump	
Dump file: D:\MEMORY.DMP Qverwrite any existing file Disable <u>a</u> utomatic deletion of memory dumps when disk space is low	
OK Cancel	

Note the following when specifying a dump file:

- We recommend specifying Kernel memory dump for Write debugging information.
- Specify a drive that has a free area of at least "total size of physical memory" + 400 MB (total size of physical memory + 1,100 MB when the total size is 4 TB 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 save the debug information 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	
User Profiles Desktop settings related to your sign-in	
S <u>e</u> ttings	
Startup and Recovery System startup, system failure, and debugging information	
Seţţings	
Enviro <u>n</u> ment Variables]
OK Cancel Apply	

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

Performance Options	×
Visual Effects Advanced Lata Execution Prevention	
Select the settings you want to use for the appearance and performance of Windows on this computer.	
● <u>L</u> et Windows choose what's best for my computer	
○ Adjust for <u>b</u> est appearance	
○ Adjust for best <u>p</u> erformance	
○ <u>C</u> ustom:	
Animate controls and elements inside windows	1
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.

Performance (Options			×
Visual Effects Processor	Advanced scheduling	Data Execution Preven	tion	
	now to alloc r best perfo	ate processor resource rmance of:	:5.	
O <u>P</u> rogra	ams	Background	<u>s</u> ervices	
-Virtual me	emory			
A paging were RAM		ea on the hard disk tha	t Windows uses as if it	
Total pag	ing file size	for all drives:	8192 MB	

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 each Drive [Volume Label]	ge paging file size for all drives drive Paging File Size (MB) System managed	
Selected drive: Space available: © <u>C</u> ustom size: <u>I</u> nitial size (MB): Ma <u>x</u> imum size (MB): O System managed siz O <u>N</u> o paging file	C: 366520 MB	
Total paging file size for Minimum allowed: Recommended: Currently allocated:	16 MB 1889 MB 8192 MB	
	OK 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**.

Virtual Memory	×
Paging file size for each Drive [Volume Label]	Paging File Size (MB)
C:	System managed
Selected drive: Space available:	C: 366520 MB
● <u>C</u> ustom size: <u>I</u> nitial size (MB):	
Ma <u>x</u> imum size (MB):	
System managed si	ze
○ <u>N</u> o paging file	Set
- Total paging file size for	r all drives
Minimum allowed:	16 MB
Recommended:	1889 MB
Currently allocated:	8192 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 + 1,100 MB when the total size is 4 TB or more) or more) is enough to store the dump file. Make sure to specify a sufficient paging file size. Recommended size: "the installed memory size" x1.5 or more
- See "System Partition" in *Chapter 1 (3.1 Precautions of Windows Server 2016 Installation)* for recommended value.
- When DIMM is added, re-specify the paging file according to the increased memory size.

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.

Programs and Features			
Power Options			
Event Viewer			
System			
Device Manager			
Network Connections			
Disk Management			
Computer Management			
Command Prompt			
Command Prompt (Admin)			
Task Manager			
Control Panel			
File Explorer			
Search			
Run			

2. Click More details.

🕎 Task Manager	_		×
٦	There are no running apps		
⊘ More <u>d</u> etails		<u>E</u> nd ta	ask

- 3. Click the **Processes** tab.
- 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.		
	📙 🖸 📑 🖛 Administrator — 🗆 🗙		
	File Home Share View		
	Impreview pane Imprevi		
	Panec Lavout Current view Show/bide		

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

5. Backup of system information

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

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



NEC Express5800 Series

Maintenance

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

1. Failure Information

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

2. Troubleshooting

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

3. Windows System Recovery

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

I. Failure Information

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

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

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

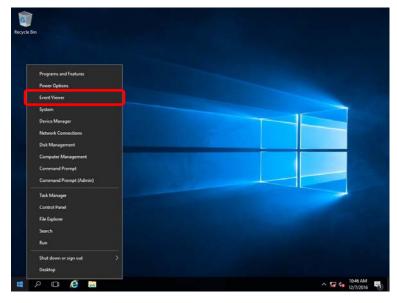
I.I Collecting Event Logs

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

Tips

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

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



2. Select the type of log in Windows Logs.

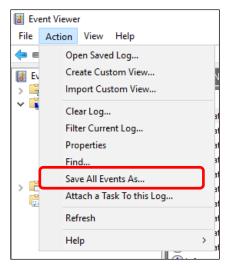
Application records events related to running applications.

Security records events related to security.

System records events that occur in Windows system components.

I Event Viewer Eile Action ⊻iew Help						-	σ	×
💠 🚸 🙇 📷 🛛 🔯								
Event Viewer (Local)	Windows Logs				Acti	ions		
Custom Views Windows Logs	Name	Туре	Number of Events	Size		idows Logs		
Application	Application	Administrative		1.07 MB	10	Open Saved	Log	
Security	Security	Administrative	1,337	1.07 MB	7	Create Custo	m View	
Setup	Setup	Operational	0	68 KB		Import Cust	om View	
💽 System	System	Administrative		1.07 MB		View		
Forwarded Events	Forwarded Events	Operational	0	0 Bytes	-			-
Subscriptions						Refresh		
Subscriptions					2	Help		•
					App	lication		-
						Open		
						Properties		
					?	Help		

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



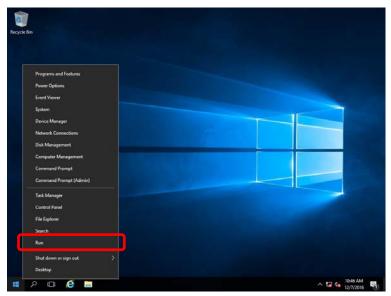
- 4. Type the file name of the archived log in **File name**.
- 5. Select the type of the log file you want to save in **Save as type**, and then click **Save**.

1.2 Collecting Configuration Information

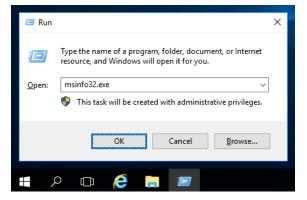
This section describes how to collect hardware information or configuration.

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

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



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



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)*.

1.4 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 *Maintenance Guide* before sending it for repair. If an item in the checklist corresponds with a problem you are experiencing, follow the processing instructions.

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 Chapter 1 *(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 2016

If the Windows does not start normally, you can recover it using the feature of the Windows installation disc. To run this feature, start the installation disc, 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 on-board RAID controller and an internal optical disc drive, load the driver from a removable media. Copy the following folder from Starter Pack DVD to a removable media in advance. \software\007\drivers\sw_raid1_driver

- 1. After turning on the server or restarting the server, insert the OS installation disc into the server.
- 2. Press <F11> key during POST to start Boot Menu.

In **One-Time Boot Menu**, select the optical disc drive to which OS installation disc is set by Step 1, and then exit the menu.

- 3. 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 disc.
 - 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.
- 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 on-board RAID controller:

Tips

drvload D:\software\007\drivers\sw_raid1_driver\SmartDQ.inf

When the server configures an on-board RAID controller and an internal optical disc 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\SmartDQ.inf

For RAID controller (N8103-189/190/191/192/193/194/195/201)

drvload D:\software\007\drivers\dac1_driver\SmartPqi.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

os

L

Event Log

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

All Windows OS

System Log

	VDS Basic Provider	Error	Unexpected failure. Error code : 32@01000004
1	At the time of a USB Device connection		When it's at the time of a USB Device connection, it's no problem.
51	Cdrom	Warning	Error detected on the device \Device\CdRom0 during the paging operation.
51	When installing an OS		This event may be registered in the event viewer, but this does not affect system operation.
			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.
56	Application Popup	Error	The following information was included with the event: PCI XXXXXXXXXXXXXXXXX
			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 the LAN board.
	When installing an OS, starting system, or applying Starter Pack		When multiple N8104-157 are loaded it is registered, but does not affect system operation.
129	SmartDQa	Warning	Reset was issued to the device \Device\RaidPort(x). (x is any number)
123	While the system is running		If this message has been registered as a log during heavy I/O, there is no problem since the OS has succeeded in retry. Continue using.
	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.

Windows Server 2016

System Log

ystem Lo	og		
4	l2nd	Warning	HPE Ethernet 10Gb 2-port 530SFP+ Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
4	When installing an OS, sta or applying Standard Progra		This event does not affect system operation.
	l2nd	Warning	HPE Ethernet 10Gb 2-port 530T Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
4	When installing an OS, sta or applying Standard Progra		This event does not affect system operation.
	l2nd	Warning	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
4	When installing an OS, sta or applying Standard Progra		This event does not affect system operation.
4	l2nd	Warning	QLogic BCM57810 10 Gigabit Ethernet (NDIS VBD Client) #xx: The network link is down. Check to make sure the network cable is properly connected.
	When installing an OS	·	This event does not affect system operation.
4	l2nd2	Warning	HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
	When installing an OS, sta or applying Standard Progra	arting system, am Package	This event does not affect system operation.
	l2nd2	Warning	HPE Ethernet 10Gb 2-port 521T Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
4	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
	l2nd2	Warning	HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
4	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
	q57nd60a	Warning	HPE Ethernet 1Gb 2-port 332i Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
4	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
	q57nd60a	q57nd60a	HPE Ethernet 1Gb 4-port 331i Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
4	When installing an OS, sta or applying Standard Progra		This event does not affect system operation.
	q57nd60a	Warning	HPE Ethernet 1Gb 4-port 331T Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
4	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
	q57nd60a	Warning	HPE Ethernet 1Gb 4-port 331FLR Adapter #xx: The network link is down. Check to make sure the network cable is properly connected.
4	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.

4	q57nd60a	Warning	HPE Ethernet 1Gb 2-port 332T Adapter #xx: The network link is down Check to make sure the network cable is properly connected.
4	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
4	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	1	This event does not affect system operation.
	e1rexpress	Warning	HPE Ethernet 1Gb 2-port 361i Adapter #xx Network link is disconnected.
27	When installing an OS, or applying Standard Pro	starting system, gram Package	This event does not affect system operation.
	e1rexpress	Warning	HPE Ethernet 1Gb 2-port 361T Adapter #xx Network link is disconnected.
27	When installing an OS, or applying Standard Pro		This event does not affect system operation.
	e1rexpress	Warning	HPE Ethernet 1Gb 4-port 366T Adapter #xx Network link is disconnected.
27	When installing an OS, or applying Standard Pro	starting system, gram Package	This event does not affect system operation.
	e1rexpress	Warning	HPE Ethernet 1Gb 4-port 366FLR Adapter #xx Network link is disconnected.
27	When installing an OS, or applying Standard Pro	starting system, gram Package	This event does not affect system operation.
	e1iexpress	Warning	Intel(R) I350 Gigabit Network Connection #xx Network link is disconnected.
27	When installing an OS		This event does not affect system operation.
07	i40eb	Warning	HPE Ethernet 1Gb 2-port 368i Adapter #xx Network link is disconnected.
27	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
_	i40eb	Warning	HPE Ethernet 1Gb 4-port 369i Adapter #xx Network link is disconnected.
27	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
~-	i40eb	Warning	HPE Ethernet 1Gb 2-port 368FLR-MMT Adapter #xx Network link is disconnected.
27	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
~-	i40eb	Warning	HPE Ethernet 10Gb 2-port 568FLR-MMSFP+ Adapter #xx Network link is disconnected.
27	When installing an OS, or applying Standard Pro		This event does not affect system operation.
	i40eb	Warning	HPE Ethernet 10Gb 2-port 568FLR-MMT Adapter #xx Network link is disconnected.
27	When installing an OS, or applying Standard Pro		This event does not affect system operation.

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07	ixgbs	Warning	HPE Ethernet 10Gb 2-port 562FLR-T Adapter #xx Network link is disconnected.
27	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
	ixgbs	Warning	HPE Ethernet 10Gb 2-port 562T Adapter #xx Network link is disconnected.
27	When installing an OS, sta or applying Standard Progra		This event does not affect system operation.
27	ixgbi	Warning	Intel(R) Ethernet Controller X550 #xx Network link is disconnected.
2.	When installing OS	I	This event does not affect system operation.
27	ixgbi	Warning	HPE Ethernet 10Gb 2-port 562T Adapter #xx Network link is disconnected.
21	When installing OS	I	This event does not affect system operation.
	i40ea	Warning	HPE Ethernet 10Gb 2-port 562SFP+ Adapter #xx Network link is disconnected.
27	When installing an OS, sta or applying Standard Progra		This event does not affect system operation.
	i40ea	Warning	HPE Ethernet 10Gb 562SFP+ Adapter #xx Network link is disconnected.
27	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
	i40ea	Warning	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter Network link is disconnected.
27	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
27	i40ei	Warning	The description for Event ID 27 from source "i40ei" cannot be found Either the component that raises this event is not installed on your loca computer or the installation is corrupted. You can install or repair the component on the local computer.
	When installing an OS		This event does not affect system operation.
56	qebdrv	Warning	NTPNP_PCIxxxx: RDMA has been implicitly disabled due to RDMA interface NTPNP_PCIxxxx: RDMA has been implicitly disabled due to RDMA interface drivers. VBD driver upgrade is required. * "x" depends on the system environment.
	When applying Standard Program Package		This event does not affect system operation.
57	qebdrv	Warning	NTPNP_PCIxxxx: RDMA has been implicitly disabled due to RDMA interface incompatibility between NDIS Miniport (ver x.xx.xx.) and VBE (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.
69	i40ea	Warning	HPE Ethernet xGb x-port xxxx Adapter The driver for the device detected a newer version of the NVM image than expected. Please install the most recent version of the network driver. *"x" depends on the system environment.
	When installing an OS, sta or applying Standard Progra		This event does not affect system operation.

69	i40eb	Warning	HPE Ethernet xGb x-port xxxx Adapter The driver for the device detected a newer version of the NVM image than expected. Please install the most recent version of the network driver. *"x" depends on the system environment.
	When installing an OS, starting system, or applying Standard Program Package		This event does not affect system operation.
69	i40ei	Warning	The description for Event ID 69 from source "i40ei" 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.
	When installing an OS, sta or applying Standard Progra		This event does not affect system operation.
0.10	Microsoft-Windows- Kernel-PnP	Warning	The driver \Driver\WudfRd failed to load for the device xxxxxxxxxxxxxxxxxxxxxxx
219	When starting system or disk	connecting a	This may be recorded when starting the system or connecting a disk depending on timing, but does not affect system operation.
			The application YYY with process id XXX stopped the removal or ejection for the device ZZZ.
225	Kernel-PnP	Warning	 * ZZZ : Instance name of the device YYY : Name of the process that was using the device XXX : ID of the process that was using the device
	When applying Starter Pack	(This event does not affect system operation if it is logged when applying Starter Pack.
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.
	Service Control Manager	Error	The Data Sharing Service service terminated with the following error: %%3239247874
			* The message may not be displayed correctly as follows, but there is no problem. The description for Event ID 7023 from source Service Control Manager cannot be found. Either the component that raises this event is not
7023			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: Data Sharing Service %%3239247874 The locale specific resource for the desired message is not present.
	When running an OS for the first time or rebooting it, or while the system is in use		This event does not affect system operation.
7024	Service Control Manager	Error	The Intel® Ethernet Thermal Sensor Monitor Service service terminated with the following service-specific error: The operation completed successfully."
	When starting system, or applying Standard Program Package		This event does not affect system operation.
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	When running an OS for the first time or rebooting it		Refer to the following website. <u>https://support.microsoft.com/ja-jp/help/956479</u> (Japanese)
10317	Microsoft-Windows -NDIS	Error	Miniport Microsoft Network Adapter Multiplexor Driver, {xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx}, had event Network Interface deleted while PNP Device still exists. Note that this event is provided for informational purpose and might not be an error always (Eg: In case of vSwitch which was recently un-installed or a LBFO team was removed)
	When removing a team		This event does not affect system operation.

Application Event Log

1014	Microsoft-Windows- Security-SPP	Warning	Acquisition of End User License failed. hr=0x80072EE7
1014	When running an OS for the first time		This event does not affect system operation if it is not recorded repeatedly after activating the Windows.
1015	Microsoft-Windows- Security-SPP	Warning	Detailed HRESULT. Returned hr=0xC004F022, Original hr=0x80049E00
1015	When running an OS for the first time		This event does not affect system operation if it is not recorded repeatedly after activating the Windows.
1534	Microsoft-Windows- User Profiles Service	Warning	Profile notification of event Create for component {2c86c843-77ae-4284-9722-27d65366543c} failed, error code is Not implemented.
	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.
8198	Microsoft-Windows- Security-SPP	Error	License Activation (slui.exe) failed with the following error code: hr=0x******* Command-line arguments: RuleId=***********************
	When running an OS for the first time or rebooting it		This event does not affect system operation if it is not recorded repeatedly after activating the Windows.
0000	Microsoft-Windows- Security-SPP	Error	License acquisition failure details. hr=0x80072EE7
8200	When running an OS for the first time or rebooting it		This event does not affect system operation if it is not recorded repeatedly after activating the Windows.

Applications and Services Logs

69	Microsoft-Windows- AppModel-Runtime	Error	Failed with 0x490 modifying AppModel Runtime status for package ************************************
	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.
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,0x8'. NtpClient will try again in 15 minutes and double the reattempt interval thereafter.
	When running an OS for the rebooting it	first time or	This event does not affect system operation if it is not recorded after connecting to the internet.
200	Microsoft-Windows- DeviceSetupManager	Warning	A connection to the Windows Update service could not be established.
200	When running an OS for the first time or rebooting it		This event does not affect system operation if it is not recorded after connecting to the internet.
201	Microsoft-Windows- DeviceSetupManager	Warning	A connection to the Windows Metadata and Internet Services (WMIS) could not be established.
201	When running an OS for the first time or rebooting it		This event does not affect system operation if it is not recorded after connecting to the internet.
202	Microsoft-Windows- DeviceSetupManager	Warning	The Network List Manager reports no connectivity to the internet.
202	When running an OS for the first time or rebooting it		This event does not affect system operation if it is not recorded after connecting to the internet.
506	Microsoft-Windows- DeviceManagement- Pushrouter	Error	DmWapPushService: Failed to register WNF with EventAggregator for WAP messages received by SMS Router. Result: (0xC002000B).
	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.

Revision Record

Document Number	Date	Notes
CBZ-002473-198-00	April 2020	The first edition
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