NEC

NEC ESMPRO Manager Ver.7 Setup Guide

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Terminology

Term	Description
ESMPRO Extension for	A plugin to display hardware information of Express5800 servers for
Windows Admin Center	Windows Admin Center.
NEC ESMPRO Agent	This is a software that works together with NEC ESMPRO Manager to
C	monitor servers and to obtain various informations from them.
NEC ESMPRO	It is NEC ESMPRO Agent's successor software.
ServerAgentService	
ExpressUpdate Agent	This is a software that works on managed servers. it can update modules
	such as the firmware and the software on managed servers after recevie the
	demand from NEC ESMPRO Manager.
WebSAM iStorageManager	This is a software that centrally, productively manages storage resources
	and displays its component and monitor status and notify fault.
iStorage (M Series) NEC	This is neccessary relative module for NEC ESMPRO Manager to monitor
ESMPRO Manager relative	iStorage M series.
module	
Windows Admin Center	A web-browser-based server management software provided by Microsoft.
BMC	Baseboard Management Controller
	BMC is an Embedded controller that can monitor hardware status and
	abnormality without depending on system status and OS.
EXPRESSSCOPE Engine	This is a NEC management controller by using BMC.
BMC (EXPRESSSCOPE	Baseboard Management Controller
Engine)	An Embedded controller which is able to monitor the system status or error
	regardless of DC off/on.
BMC (Other)	Baseboard Management Controller
	Management component pre-contains EMS (Embedded Management
	Software).
	(Product other than BMC (EXPRESSSCOPE Engine), iLO and vPro.)
IPMI	Intelligent Platform Management Interface
	A standard interface specification for monitoring server hardware without
	depending on system status and OS.
Redfish	Redfish is a standard interface that is newer than IPMI, defined by the
	DMTF(Distributed Management Task Force), for managing server
	operations.
iLO	Integrated Lights-Out
	A management controller which is able to monitor the system status or error
	regardless of DC off/on.
vPro	Intel platform brand for business users (Intel [®] vPro [™] Technology).
iAMT	Intel® Active Management Technology
	Remote control technology and one of main functions of vPro.
SOL	Serial Over LAN
	A function which BMC converts the serialized data to UDP Packet and
	sends to LAN.
WS-Man	Web Service Management
	Open standard protocol for remotely accessing management data with any
	computer device.
Classic Mode	It is user interface for NEC ESMPRO Manager Ver.7 to start the same
	tunctionas NEC ESMPRO Manager Ver.6. It can display Server detail
	Information and oprate environment setting of NEC ESMPRO Manager.
Component	It is the device managed in NEC ESMPRO Manager.
System management	System management is to manage components using SNMP (NEC

	ESMPRO Agent) / WS-Man / ESXi / iStorage in NEC ESMPRO Manager.
Microsoft Teams	Microsoft Teams is a collaboration and communication platform developed
	by Microsoft.
Alert Define File	In the settings file, SNMP trap for receiving on NEC ESMPRO Manager is
	defined.
	Please read the URL below to obtain more detail information.
	https://www.58support.nec.co.jp/global/download/index.html

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About This Document

This document introduces remote management using the server management utility "NEC ESMPRO Manager" and explains the complete procedures from installation to managed component's setup.

Before attempting to operate the component management utility NEC ESMPRO Manager, read this document so as to gain an adequate understanding of the contents.

Notes

This document is intended for persons who are familiar with the operating system's functions and operations and the network's functions and setup. For operations and inquiries about the operating system, see its online help information.

This document covers universal information about generally managed components. The notes and restrictions on use of each product as a managed component are explained in the user's guide provided with the managed component and "Appendix D. Managed Components Summary".

If the NEC EXPRESSBUILDER(SE) CD-ROM or Maintenance Management Tool CD-ROM is attached to the managed component, read the word in place of "NEC EXPRESSBUILDER" in this document.

Names used with screen images in this document are fictitious. They are unrelated to existing product names, names of organizations, or individual names. The setting values on the screen images are shown as examples, so setting values such as IP addresses on screen images are not guaranteed for operation.

In this document, "¥" expresses back slash.

About Symbols in This Document

The following explains three symbols that are used in this document:

IMPORTANT:	Points or particular notes you must follow when handling software of components.
CHECK:	Points or notes you need to check when handling software or components.
TIPS:	Useful information.

Other Documents for NEC ESMPRO Manager

For other information about the NEC ESMPRO Manager, see the documents below.

- Which components can NEC ESMPRO Manager control? See the "Appendix D. Managed Components Summary".
- How to operate after setup. See the NEC ESMPRO Manager online help information.
- How to operate the command line Interface. See the "NEC ESMPRO Manager Command Line Interface".

Chapter1 Setup for Managed Component in which EXPRESSSCOPE Engine 3 is integrated

This chapter explains the setup procedure for the NEC ESMPRO Manager to manage the BMC and NEC ESMPRO Agent Extension ver.2.xx on a managed component remotely via LAN connection.

1.1 Setup Flow

Setup by the following setup procedure:

- (1) Connect the management PC on which NEC ESMPRO Manager is installed and the managed component on the same network.
- (2) Configure BMC on the managed component to enable ESMPRO Management.
- (3) Register the managed component on NEC ESMPRO Manager.

1.2 Configure BMC on Managed Component Configure BMC of the managed component at first.

6 6 1	
TIDS.	••••
 This section explains about the minimum setting that is necessary to connect NEC ESMPRO Manager with the managed component. For details of BMC configuration see document of each tool. 	C 1,
There are three ways for configuring a BMC on a managed component for LAN connection.	
Configuration with NEC EXPRESSSCOPE Engine 3 WebConsole	
You can access EXPRESSSCOPE Engine 3 from a Web browser, and set BMC Configuration	n.
СНЕСК:	••••
 You can use EXPRESSSCOPE Engine 3 only when the HTTP/HTTPS is enabled. You cannot configure BMCs on ft server with NEC EXPRESSSCOPE Engine 3 We Console. Please choose other method. 	b
Configuration with online BMC Configuration.	
Online configuration tool installed on Windows/Linux OS configures BMC.	
TIPS:	••••
• The name of the tool is "BMC Configuration" or "Server Configuration Utility". It is depends on a model of server.	is
Configuration with off line BMC Configuration	
Off-line tool started from POST screen by F4 key configures BMC.	
TIPS:	
• The name of the tool is "BMC Configuration" or "Server Configuration Utility". It is depends on a model of server.	is

1.2.1 Configuration with EXPRESSSCOPE Engine 3 WebConsole

Explain the operation of Web Console of EXPRESSSCOPE Engine 3.

СНЕСК:

- You cannot configure BMCs on ft server with NEC EXPRESSSCOPE Engine 3 Web Console. Please choose other method.

(1) After starting a web browser on the management PC, input following URL.

In the case that the IP address of BMC is 192.168.1.1 and the setting of HTTPS is enable. https://192.168.1.1/

(2) "Main Menu" screen will be displayed.

Select "Configuration" tab.

The following screen shows example	e.
------------------------------------	----

Expresss	<u>COPE</u> 3				User:Management Software [Privilege:Adm Environment About EXPRESSS	ninistrator] Logout COPE Engine 3 Help
Server Name:BMC1C6F653E3F6 System F	50 (192.168.15.110) Remote Access	Configuration	Update			
Summary Component IPMI Information Access Information	Servi Mi Se Lo Re Re Sy Bh Bh Sy Sy	er Information odel Name[Product Part] oduct Serial Number river Status gin users irmote KVM mote Media rmote KVM And Media Licensi- ristem BIOS Revision 4/C Fiurtware Revision 4/C Boot Flash ROM vistem LAN MAC	Expres 012342 D Nor 3 Availat Availat 4.6.00 ⁻ 00.26 #2 LAN 1 LAN 2	s5900/R110d-1E [N8100-1760] 6 mal le le anse has been registered. 8 : 1C-6F-65-3E-3F-86 1C-6F-65-3E-3F-87	Detail Detail Detail Detail	Reload
		POST Comp	ileted Successfu	lly î		

(3) "Configuration" screen will be displayed. Select "Miscellaneous".

45 4400			1.1.1
15.1100		Environment About EXPRESSSCOPE En	gine 3
cess Configuration	Update		
		A Reid	had
Harm Manua		Cadua Malaz	
Item Name		Setup Value	
Management LAN	Management AN		
Basic	management 2 st		
Connection Type	Auto Negotiation		
MAC Address	1C:6F:65:3E:3F:50		
DHCP	Enable		
IP Address	192.168.15.110		
Subnet Mask	255.255.254.0		
Default Gateway	0.0.0.0		
Dynamic DNS	Disable		
DNS Server			
Host Name	BMC1C6F653E3F50		
Domain Name			
Access Limitation			
Limitation Type	Allow All		
POST Comp	leted Successfully		
	Item Name Management LAN Management LAN Basic Connection Type MAC Address DHCP IP Address Subnet Mask Default Gateway Dynamic DNS DNS Server Host Name Domain Name Access Limitation Limitation Type	Item Name Management LAN Management LAN Basic Connection Type Auto Negotiation MAC Address 10:6F 65:3E:3F:50 DHCP Enable IP Address 192:168:15:110 Subnet Mask 255:255:26:4.0 Default Gateway 0.0.0.0 Dynamic DNS Disable DNS Server BMC105F653E3F50 Domain Name Allow All POST Completed Successfully () ()** ()**** i:	Item Name Setup Value Management LAN Management LAN Basic Connection Type Connection Type Auto Negotiation MAC Address 10 6F 65 3E:3F 50 DHCP Enable IP Address 192 168.15.110 Subnet Mask 255 255 254.0 Default Gateway 0.0.0 Dynamic DNS Disable DNS Server Host Name Access Limitation Allow All

(4) "Miscellaneous" screen will be displayed.

Be sure to set the following items. The other items can be used with the default values.

-- "ESMPRO Management" Click "Enable".
-- "Authentication Key" Enter the authentication key.

The following screen shows example.

Expression		,				User:Management Software (Privilege:Administrator) Environment About EXPRESSSCOPE Eng	Logout ine 3 Help
System Re	emote Access	Configuration	Update				
BMC Troperty Service Service SsL User Management Alert System Operaton ECO Miscellaneous Backup/Restore System BIOS	Inte HT HT Op Pow ACC De PEF Fis Man ES Au Re	rtace rtp rp rp rtp rtp rtp rtp rtp rtp rtp r	<	Enable Enable Enable Last State 600Second Disable Enable	Edit		×
		POST Con	npleted Success	sfully	ii		

CHECK:

- If a managed component supports SOL and "Redirection" is selected to "Enable", you must change the following items for the remote console via the LAN.
- "Configuration" page "System BIOS" page "Flow Control": Hardware RTS/CTS.
- (5) Select "Apply".

The configuration information is set in the BMC.

(6) Select "Property" page in "Network" screen.

Set the following items. The other items can be used with the default values.

-- "DHCP"

Determine whether to dynamically obtain an IP address from a DHCP server. If the item is set Enable and applied, BMC set the value obtained from DHCP server on "IP Address", "Subnet Mask" and "Default Gateway".

- -- "IP Address" Enter the BMC IP address.
- -- "Subnet Mask" Enter the subnet mask for the IP address.
- -- "Default Gateway"

Enter the default gateway if the managed component connects to management PC via any gateway

The following screen shows example.

Express	SCOPE	3		User:Management Software (Privilege:Administrator) Logout Environment About EXPRESSSCOPE Engine 3 Help
Server Name:BMC1C6F653	E3F50 (192.168.15.11	0)	γ	
System	Remote Access	Configuration	Update	
BMC	N	lanagement LAN		
Network		Management LAN	Mar	nagement LAN
Property	B	asic		
Service		Connection Type	Au	to Negotiation 🔄
55L Et leas Management		MAC Address	10:	AE-05-25-05-60
Oser Manageme Alort	i i L	DHCP	(°	Enable C Disable
System Operato	n	Dynamic DNS	C	Ename - Disable
ECO		DNS Server		
Miscellaneous ■Backup/Restore		Host Name	BM	IC1 C6F853E3F50
System BIOS		Domain Name		
	А	ccess Limitation		
		Limitation Type	۲	Allow All C Allow Address C Deny Address
				Apply Default Cancel
		POST C	ompleted Successf 길 쇼 《	ii Vita

(7) If you set "Default Gateway", confirm that the gateway is connected to network.

(8) Select "Apply".

The configuration information is set in the BMC.

•	Please set the following items for NEC ESMPRO Manager to receive alerts from the
	BMC.
	- Miscellaneous
	- Platform Event Filtering : Enable
	- Alert
	- Alert - SNMP Alert :
	- Alert : Enable
	- Computer Name : Any
	- Alert Receiver 1 IP Address:
	IP address of the management PC on which NEC ESMPRO Manager is
	installed.
	* Please set the checkbox to enable

1.2.2 Online Configuration

1.2.2.1 Configuration with Configuration tool for Windows

Explain the operation of Configuration tool for Windows.

- (1) After booting Windows on the managed component, start "BMC Configuration" or "Server Configuration Utility" from start menu on Windows.
- (2) The main dialog box is displayed.
 - In the case of BMC Configuration: "Set BMC Configuration" \rightarrow "Miscellaneous"
 - In the case of Server Configuration Utility: "EXPRESSSCOPE Engine 3" → "Miscellaneous"

(3) Be sure to set the following items. The other items can be used with the default values.

 -- "ESMPRO Management" Click "Enable".
 -- "Authentication Key" Enter the authentication key.

The following screen shows example.

Behavior when SEL repository is full	○ Stop logging SEL ○ Clear all SEL ④ Overwrite oldest SEL
Power Restore Delay AC-LINK	◯ Stay Off ◯ Last State . O Power On
Delay Time [Required]	30 seconds (30 - 600)
PEF Platfrom Event Filter *1f PEF Configuration is s	Enable O Disable et to disable, SNMP alert will not work.
Management Software — ESMPRO Management Authentication Key [Re	C Enable C Disable
Bedirection	C Enable C Disable

CHECK:

• If a managed component supports SOL and "Redirection" is selected to "Enable", you must change the following items for the remote console via the LAN. Main dialog box - "Set BIOS Configuration" page - "Flow Control": Hardware RTS/CTS.

.....

Select Network configuration screen.

- In the case of BMC Configuration: "Set BMC Configuration" \rightarrow "Network"
- In the case of Server Configuration Utility: "EXPRESSSCOPE Engine 3" \rightarrow "Network" \rightarrow "Property"

- CHECK:
- If you configure a fault tolerant server, there are the tab "Network 0" (for CPU/IO module 0) and the tab "Network 1" (for CPU/IO module 1). Please configure both CPU/IO modules.
- (4) Set the following items. The other items can be used with the default values.
 - -- "DHCP"

Determine whether to dynamically obtain an IP address from a DHCP server. If the item is set Enable and applied, BMC set the value obtained from DHCP server on "IP Address", "Subnet Mask" and "Default Gateway".

- -- "IP Address" Enter the BMC IP address.
- -- "Subnet Mask"

Enter the subnet mask for the IP address.

-- "Default Gateway"

Enter the default gateway if the managed component connects to management PC via any gateway.

The following screen shows example.

*Modufying the setting in this	s screen will turn the connection with the BMC off.	<u>^</u>
Management LAN Management LAN	Management LAN	
Connection Type	Auto Negotiation	
BMC MAC Address	6C:F0:49:56:94:53	
рнср 🤇	Enable Disable	
IP Address [Required]	192.168.14.77	
Subnet Mask [Required]	255.255.254.0	
Default Gateway	0.0.0.0	
Dynamic DNS	C Enable 💿 Disable	
DNS Server		
Host Name	BMC6CF049569453	
Domain Name		

- (5) If you set "Default Gateway", confirm that the gateway is connected to network.
- (6) Click "Apply".

The configuration information is set in the BMC.

CHECK:
Please set the following items for NEC ESMPRO Manager to receive alerts from the BMC.
Miscellaneous

Platform Event Filter : Enable
SNMP Alert
Alert : Enable
Computer Name : Any
Alert Receiver Primary IP Address :

IP address of the management PC on which NEC ESMPRO Manager is installed.
* Please set the checkbox to enable.

1.2.2.2 Configuration with Configuration tool for Linux

Explains the operation of Configuration tool for Linux.

(1) After booting Linux on the managed component, start BMC Configuration or Server Configuration Utility by the following commands.

In the case of BMC Configuration:

/opt/nec/BMC Configuration/bmcconf

In the case of Server Configuration Utility:

/opt/nec/ServerConfiguration/svconf

- (2) The main dialog box is displayed.
 - In the case of BMC Configuration: "Set BMC Configuration" → "Miscellaneous"
 - In the case of Server Configuration Utility: "EXPRESSSCOPE Engine 3" → "Configuration" → "Miscellaneous"
- (3) "Miscellaneous" screen is displayed.

Be sure to set the following items. The other items can be used with the default values.

 -- "ESMPRO Management" Click "Enable".
 -- "Authentication Key" Enter the authentication key.

AC-Link	store bera	y 🚺) Stay Off	(*) Last Stat	e () Powe
Delay Ti	me [Requir	ed]	30_	seconds (30 –	- 600)
*PEF	E. E. E.			Franklar () D	
*If PEF	Configura	tion is set t	o disable.	SNMP alert wi	ll not worl
*Manageme	ent Softwar	e	andabro,	Sint aroro in	
ESMPRO N	lanagement	ED 1 17	(*)	Enable () Di	sable
Authenti	cation Key	[Kequired]		K/K	

CHECK:

If a managed component supports SOL and "Redirection" is selected to "Enable", you must change the following items for the remote console via the LAN.
 Main dialog box - "Set BIOS Configuration" page - "Console Redirection Configuration" page - "Flow Control": Hardware RTS/CTS.

.....

(4) Select "Apply".

The configuration information is set in the BMC.

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(5) Select network configuration screen.

- In the case of BMC Configuration: "Set BMC Configuration" → "BMC Configuration" → "Network" → "Property"
- In the case of Server Configuration Utility: "EXPRESSSCOPE Engine 3" → "Configuration" → "Network" → "IPv4 Property"
- (6) Set the following items. The other items can be used with the default values.
 - -- "DHCP"

Determine whether to dynamically obtain an IP address from a DHCP server. If the item is set Enable and applied, BMC set the value obtained from DHCP server on "IP Address", "Subnet Mask" and "Default Gateway".

- -- "IP Address" Enter the BMC IP address.
- -- "Subnet Mask" Enter the subnet mask for the IP address.
- -- "Default Gateway"

Enter the default gateway if the managed component connects to management PC via any gateway.

The following screen shows example.



- (7) If you set "Default Gateway", confirm that the gateway is connected to network.
- (8) Select "Apply".

The configuration information is set in the BMC.

CHECK:
Please set the following items for NEC ESMPRO Manager to receive alerts from the BMC.
Miscellaneous

Platform Event Filter : Enable
SNMP Alert:
Alert : Enable
Computer Name : Any
Primary Alert Receiver : Enable
IP Address :

IP address of the management PC on which NEC ESMPRO Manager is installed.

.....

1.2.3 Configuration with Off-line BMC Configuration

(1) The following message is displayed on the bottom of POST screen.

```
Press<F2> SETUP, <F3> Internal flash memory, <F4> ROM Utility, <F12> Network
```

- (2) Press F4 key on this screen. If F4 key is entered, Keyboard type selection screen is displayed after POST screen. Select keyboard type.
- (3) "Main Menu" screen is displayed. Select "BMC Configuration" or "Server Configuration Utility".
- (4) Select Miscellaneous screen.
 - In the case of BMC Configuration: "BMC Configuration" \rightarrow "Miscellaneous"
 - In the case of Server Configuration Utility: "EXPRESSSCOPE Engine 3" → "Configuration" → "Miscellaneous"

(5) Be sure to set the following items. The other items can be used with the default values.

- -- "ESMPRO Management" Click "Enable".
- -- "Authentication Key" Enter the authentication key.

The following screen shows example.

Miscellaneous	
Items :	Values
Behavior when SEL repository is full :	[Stop logging SEL]
Platform Event Filter :	[Disable]
Management Software	
ESMPRO Management	[Enable]
AuthenticationKey [Required] 🛛 💊	[****
Redirection :	[Enable]
< OK >	
< Cancel >	
< Load Default Value >	
Select:[Enter] Cancel:[ESC] Help:[Ho	ime or ?]
Note : If PEF Configuration is set t	o disable, SNMP alert will not work.

CHECK:
 If a managed component supports SOL and "Redirection" is selected to "Enable", you must change the following items necessary for the remote console via the LAN. Input <F2> key on the POST screen of the managed component.
 "SETUP" page - "Advanced" page - "Serial Port Configuration" page - "Flow Control": Hardware RTS/CTS.

(6) Select "OK".

The configuration information is set in the BMC.

(7) Select network configuration screen.

- In the case of BMC Configuration: "BMC Configuration" \rightarrow "Network" \rightarrow "Property"
- In the case of Server Configuration Utility: "EXPRESSSCOPE Engine 3" → "Configuration" → "Network" → "IPv4 Property"

СНЕСК:

• If you configure a fault tolerant server, there are the menu "Network: CPU/IO module 0" and the menu "Network 1: CPU/IO module 1". Please configure both CPU/IO modules.

(8) Set the following items. The other items can be used with the default values.

-- "DHCP"

Determine whether to dynamically obtain an IP address from a DHCP server. If the item is set Enable and applied, BMC set the value obtained from DHCP server on "IP Address", "Subnet Mask" and "Default Gateway".

- -- "IP Address" Enter the BMC IP address.
- -- "Subnet Mask" Enter the subnet mask for the IP address.
- -- "Default Gateway"

Enter the default gateway if the managed component connects to management PC via any gateway.

The following screen shows example.

Network(Property)					
Items :	Values				
Trends ************************************	<pre>(Management LAN] : [Management LAN] : [Auto Negotiation] : 10:0F:65:3E:3F:50 [Enable] : 15:100 : 255.255.254.0 : 0.0.0 : [Disable]</pre>				
DNS Server : Host Name : Domain Name : < OK > < Cancel > < Load Default Value >	[] [BMC1C6F653E3F50] []				
Select:[Enter] Cancel:[ESC] Help:[Home or ?] Note:To change "Management LAN" setting, "BMC Reset" is required.					

- (9) If you set "Default Gateway", confirm that the gateway is connected to network.
- (10) Select "OK".

The configuration information is set in the BMC.

```
.....
 IMPORTANT:
    When "Shared BMC LAN" of BMC Network setting is enabled via "BMC
    Configuration" or "Server Configuration Utility", the system LAN port that is shared
    and the BMC are not able to communicate directly.
    Therefore, when BMC is managed by NEC ESMPRO Manager of own component,
    "Management LAN" is enabled instead of enabling "Shared BMC LAN". Detail of
    this, please refer to EXPRESSSCOPE Engine 3 User's Guide.
      .....
 CHECK:
    Please set the following items for NEC ESMPRO Manager to receive alerts from the
    BMC.
    - Miscellaneous
      - Platform Event Filter : Enable
    - SNMP Alert:
      - SNMP Alert : Enable
      - Computer Name : Any
      - Alert Receiver 1: Enable
      - IP Address 1:
        IP address of the management PC on which NEC ESMPRO Manager is
installed.
```

1.3 Register a managed component on NEC ESMPRO Manager

To register the managed component on the NEC ESMPRO Manager, login to the NEC ESMPRO Manager and perform in the following order:

1.3.1 Environment setting

If it has never been set, NEC ESMPRO Manager cannot register following components. In following cases, "Self Signed Certificate" should be accepted by NEC ESMPRO Manager. Otherwise NEC ESMPRO Manager cannot manage components via WS-Management protocol or ESXi.

- The managed is a VMware ESXi server

- NEC ESMPRO ServerAgentService is installed to managed component, and HTTPS with "Self Signed Certificate" is used for communication between ServerAgentService and NEC ESMPRO Manager.

(1) Click "Environment" from "Settings" menu.

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin 👻
🚯 Dashboard 📲 Register 🚔 Component 🛕 AlertViewer 💥 Tools - 🔅 Settings -	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) On "Network" screen, click "Edit" and set "Self Signed Certificate" of "WS-Man Communication / ESXi" to "Allow".

SNMP/ICMP Communication	
Packet Resend Count	3 0 number of times
No-response Timeout 1 (1 - 65535 seconds) [Required]	4 seconds
No response Timeout 2 (1 - 65535 seconds) [Required]	4 seconds
No response Timeout 3 (1 - 65535 seconds) [Required]	4 seconds
No-response Timeout 4 (1 - 65535 seconds) [Required]	4 seconds
Communication with Remote Console/Remote Drive	
No-response Timeout (20 - 1800 seconds) [Required]	60 seconds
Communication with BMC	
IPMI no response detection timer value (1 - 15 seconds) [Required]	5 seconds
Command Send Retry Count (0 - 10 number of times) [Required]	5 number of times
Send Source Port (1025 - 65535) [Required]	47117
Priority access mode at the time of automatic selection [Required]	• Redfish O IPMI
Redfish no response detection timer value (1 - 30 seconds) [Required]	20 seconds
Self Signed Certificate	Allow Not Allowed
Direct Connection Setting	
Port Number	Serial Port 1 \$
WS Man Communication / ESXi	
Self Signed Certificate	Allow O N Allowed
Communication with iLO	
No response Timeout (1 - 30 seconds) [Required]	20 seconds
Command Send Retry Count (0 - 10 number of times) [Required]	0 number of times
Communication Protocol for Auto Registration	• HTTPS O HTTP
Self Signed Certificate	Allow O Not Allowed

1.3.2 Add component to Group 1.3.2.1 Creating group

(1) Click "Component".

About NEC ESMPRO Manager Help Classic Mode 🛓 admin -							
Dashboard 🖞 Register 📾 Component 🛕 HertVlewer 💥 Tools 👻							
Alert Status							
No alerts are unread.							

(2) The "Component List" will be displayed. Please select the group to that component belongs from the group list.

For example, if you want to create a new group in group "root", select "root".

ESMPRO			About NEC ESMPRO Manager Help Classic	Mode 🛓 admin 🗸
🚯 Dashboard 📲 Register 🚔	Component 🛕 AlertViewer 🎇 Tools 🝷			
Component List			+ ADD GRI OP root	÷
REFRESH	🗹 🔍 Error 🗹 🔍 Warn	ning 🗹 🔍 DC-OFF/POST/OS Panic 🗹 🛡	🛛 Unknown 🛛 🔍 Normal 🔽 🗢 Status Getti	ing 🔽 Not Monitored
🗾 Statue 🌲 Name	≜ Tune ≜ Linkage	Management LAN	N 🏯 Memo	
No data available.	• Type • Ennuge		↓ Incito	•
0 item(s) 0 to 0 is displayed				Previous Next
			DELETE	SELECTED DEVICE/GROUP

(3) Click "+ ADD GROUP"

ES	MPRO						About N	IEC ESMPRO Manage	er Help Classic Mode	e 💄 admin ▼
¢	Dashboard	🗄 Register 🛛 📾	Component 🛕 A	lertViewer 🔀	Tools 👻					
Co	omponent Lis	t						+ ADD GROUP	root	\$
	REFRESH			 Error 	🗹 🔍 Warning	☑ ● DC-0	DFF/POST/OS Panic 🗹 🔍 Unknow	n 🗹 🛛 Normal 🛛	🚽 🏓 Status Getting	 Not Monitored
	Status	Name	Type	Linkage	\$	IP Address	Management LAN	# Memo		÷
No	data available									
0 it	em(s) 0 to 0	is displayed								Previous Next
									DELETE SELEC	TED DEVICE/GROUP

(4) On the "Add a Group"screen, enter the group name and click "REGISTER".

The group name can be up to 63 characters long. Please do not enter a group name that includes whitespace characters.

Add a Group	×
Create a new group [Please enter within	63 characters]
GroupB	
REG	ISTER

(5) "A new group "GroupB" is created" is displayed, and click "OK". Created group will be listed in "Component List".

localhost:21120 says	
A new group "GroupB" is created.	
	ОК

ESMPRO			About NEC	ESMPRO Manager Hel	p Classic Mode	💄 admin 🗸
🚯 Dashboard 🛛 🔓 Register 🚔 Component	🛦 AlertViewer 🔀 Tools 👻					
Component List				+ ADD GROUP	root	\$
REFRESH	🗹 🗢 Error 🔽 🔍 Warning	DC-OFF/POST/OS F	Panic 🗹 🛡 Unknown	🗹 🔍 Normal 🗹 🔍	Status Getting	 Not Monitored
Status	Linkage	IP Address	Management LAN P Address	# Memo		\$
GroupB Group	[Rename]					
1 tem(s) between 1 and 1 is displayed	>					Previous 1 Next
					DELETE SELEC	TED DEVICE/GROUP

1.3.2.2 Adding a component to a group

(1) Click "Component".

ESM	IPRO		<u> </u>			About N	EC ESMPRO Manager	Help Classic Mode	admin -
(; D	ashboard -	🕯 Register 🗲	Component 🛕 AlertVie	wer 💥 Tools 👻					
Cor	nponent List	t					+ ADD GROUP	root	\$
	REFRESH			🗹 单 Error 🗹 🔍 Warr	ing 🗹 🔍 DC-OFF/POST	/OS Panic 🗹 🔍 Unknowr	n 🗹 🛛 Normal 🗹	 Status Getting 	 Not Monitored
_						Management LAN			
	Status	Name	🗢 Туре	Linkage	IP Address	IP Address	Memo Memo		\$
	•	Server	Server		192.168.8.59				
	•	GroupB	Group[Rename]						
2 ite	m(s) betwee	en 1 and 2 is di	splayed						Previous 1 Next
								DELETE SELEC	TED DEVICE/GROUP

(2) The "Component List" will be displayed, please click the checkbox for the component and then click "+ ADD GROUP".



(3) Select the group from the group list, and then click "REGISTER".

If you want to create a new group and register components, select "+ Add New Group" from the list and enter the group name.

ESN @ [IPRO Dashboard	📲 Register 🛛 🖴	Component 🔥 AlertViewer	Add devices or groups to the group.	About N ×	EC ESMPRO Manager He	elp Classic Mode	💄 admin 🕶
Coi	mponent Li	st		GroupB 🗢		+ ADD GROUP	root	\$
C	REFRESH		۵	1 device(s) will be added		n 🗹 🔍 Normal 🗹 🔍	Status Getting 🛛 🖉	Not Monitored
	Status	🗢 Name	🗢 Туре			# Memo		\$
	•	Server	Server	PEGISTER				
	•	GroupB	Group[Rename]	REDUTER				
2 ite	m(s) betwo	een 1 and 2 is dis	played				F DELETE SELECTI	Previous 1 Next

(4) If you select a group where components have been added from the group list, the component or group will be displayed in the "Component List".

ESMPRO					About NEC ESMPRO Manager He	elp Classic Mode	💄 admin 🕶
🚯 Dashboard 🛛 🔓 Register 🚔 Compon	ent 🛕 Alert	Viewer 🎇 Tools	-				
Component List					+ ADD GROUP	GroupB	•
REFRESH		Error	🗹 🔍 Warning 🔽 🔍 DC-OFI	F/POST/OS Panic 🗹 🔍	Unknown 🗹 🔍 Normal 🗹 单	Status Getting 🛛 🚽	Not Monitored
				Management LAN			
Grattus - Name	Type	Linkage	IP Address	IP Address	🌲 Memo		\$
Server	Server		192.168.8.59				
1 item(s) between 1 and 1 is displayed						F	Previous 1 Next
						DELETE SELECTE	ED DEVICE/GROUP

1.3.3 Register the Managed Component

Use either of the two methods to register the managed component.

Manual Registration

This method requires the operator to directly enter the managed component's information such as the IP address of the BMC and to perform "Check Connection".

Auto Registration

This method automatically searches the network for managed components that are not registered yet on the NEC ESMPRO Manager, and registers the managed components. This method is available only when LAN connection is used.

1.3.3.1 Manual Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin 👻
🚯 Dashboard 🔄 Register 🖨 Component 🛕 AlertViewer 💥 Tools 👻	
\sim	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Server / Storage" of "Manual Registration".

PRO		About NEC ESMPRO Manager	Help Classic Mode	≗ admin •
shboard 📲 Register 📾 Component 🛕 /	AlertViewer 💥 Tools 🕶			
Auto Registration Manual Registr	ration			
Server / Storage Network Device	ee Other Computer Device Alert Only Management			
Component Name [Required]				
Alias				
Destination Group	root +			
Common Setting				
OS IP Address [Required]				
SNMP (NEC ESMPRO Agent) / WS-1	Man / ESXi / iStorage			
Management	• Registration O Unregistration			
Management Type	• SNMP (NEC ESMPRO Agent, iStorage M series)			
	 WS-Man (NEC ESMPRO ServerAgentService, ESXi7 earlier) ESXi (ESXi8) 			
	REST API (iStorage V series)			
SNMP Community Name(Get)	public			
SNMP Community Name(Set)				
RAID system (Universal RAID Utility))			
Management	• Registration O Unregistration			
NEC ExpressUpdate				
Updates via NEC ExpressUpdate Agent	• Registration O Unregistration			
Updates via Management Controller	• Registration 🔿 Unregistration			
"BMC (EXPRESSSCOPE Engine)"/"iL	.0"/"BMC(Other)"/"vPro"(Common)			
Management	• Registration 🔿 Unregistration			
Management Type	BMC iLO BMC (Other) vPro			
BMC(EXPRESSSCOPE Engine) ADE), BMC(ECO CENTER), BMC(ma For cases other than the above and	" is target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL iny core server). "iLO" and "vPro", Please select "BMC (Other)".			
Authentication Key [Required]				
"BMC (EXPRESSSCOPE Engine)"/"iL	.0"/"BMC(Other)"/"vPro"(LAN)			
Current IP Address	• IP Address 1 O IP Address 2			
Failover	• Enable Disable			
IP Address 1 [Required]				
IP Address 2				
	AUD			

(3) Input the following items:

Name	Value
Component Name	Specify the name of the managed component on NEC ESMPRO Manager.
	Assign a name different from other managed component names. Do not
	enter a name including blank characters. Uppercase characters are
	distinguished from lowercase characters.
Alias	Specify the information about the managed component. Do not enter a
	name including blank characters. Only blank characters cannot be entered.
	Also, please do not enter a name containing blank characters. The blank
	characters will be removed if there are half-width blank characters before
	or after the string. Uppercase characters are distinguished from lowercase
	characters. Optional.
Destination Group	Specify the group to which the managed component will belong. See "1.3.2
Bestimation Group	Add component to Group" for the information about creating group.
Common Setting	
OS IP Address	Specify the OS IP Address of the managed component.
SNMP (NEC ESMPRO	Agent) / WS-Man / ESXi / iStorage
Management	Select "Registration" to manage the system of the component.
Management Type	Select a management type of the managed component.
	NEC ESMPRO Agent is installed on the managed component
	- WS-Man *1, *2
	VMware ESXi7 is installed on the managed component.
	NEC ESMPRO ServerAgentService is installed on the managed
	component.
	- ESXi *1, *2
	The operating system of the managed component is VMware ESXi8.
SNMP Community	SNMP Community Name which is specified at SNMP Agent running on
Name(Get)	the managed component.
	It is necessary to get the information, configure, monitor via SNMP
SNMP Community	When you want to set SNMP Community names for Get and Set separately
Name(Set)	on the managed component, specify the SNMP Community name for Set
	in this field by alphanumeric characters.
	If it is not specified, SNMP Community name for Get will be used.
User Name	Enter the Username/Password for communication with WS-Man or ESXi.
	- NEC ESMPRO ServerAgentService (Windows) is installed.
	Enter Username(Local User Accounts)/Password of Windows system
	Administrator
Password	(does not use a user object in Active Directory Domain Services)
	NEC ESMDDO Server A gent Service (Linux) is installed
	- NEC ESMIRO ServerAgentService (Linux) is instance.
	Enter root rassword of Entur operating system
	- The operating system of the managed component is VMware ESXi.
	Enter Username/Password of VMware ESXi Administrator
Communication	This is displayed only when WS-Man is selected as the management target.
Protocol	Select protocol HTTP/HTTPS for connection WS-Man service. *2
	- NEC ESMPRO ServerAgentService (Windows) is installed.
	If you want to use HTTPS for WS-Man communication with
	ESMPRO/ServerAgentService, refer to Chapter 2, Installation 3.3 HTTPS

	Setting in the ESMPRO/ServerAgentService Installation Guide (Windows).
	 NEC ESMPRO ServerAgentService (Linux) is installed. Select HTTPS.
	- The operating system of the managed component is VMware ESXi7. Select HTTPS.
Port Number	Enter port number where WS-Man service listens for connection. *3
	 NEC ESMPRO ServerAgentService (Windows) is installed. If you want to use HTTP, enter 5985. If you want to use HTTPS, enter 5986.
	- NEC ESMPRO ServerAgentService (Linux) is installed. Enter 5986.
	- The operating system of the managed component is VMware ESXi7. Enter 443.
RAID system(Universal	RAID Utility)
Management	Select "Registration" to manage the RAID system of the component.
	- The operating system of the managed component is VMware ESXi7.
	WS-Man management must be enabled in addition to this setting.
	- The managed component is Express3800/It server.
	utility to manage the RAID system
	- If the managed component is a VMware ESXi8, please select "
	Unregistration ".
NEC ExpressUpdate	
Updates via NEC ExpressUpdate Agent	Select "Registration" to manage the component using NEC ExpressUpdate.
Updates via	Select "Registration" to manage the component using Management
"BMC (EXPRESSSCO	PF Engine)" / "iLO" / "BMC (Other)" / "vPro" (Common)
Management	Select "Registration" otherwise NEC ESMPRO Manager may not monitor
in an age and a general second	Server regionanten enter aber aber reber inter i
	HW status.
Management Type	HW status. Select "BMC".
Management Type Authentication Key	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component".
Management Type Authentication Key "BMC (EXPRESSSCO	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN)
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address you want to use for connection.
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address Failover	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address you want to use for connection. This setting is valid only when both "IP Address1" and "IP Address2" are set Determine whether to enable/disable the "Failover" feature.
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address Failover IP Address 1	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address you want to use for connection. This setting is valid only when both "IP Address1" and "IP Address2" are set. Determine whether to enable/disable the "Failover" feature. Enter the IP address that is specified on LAN1 of the BMC configuration
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address Failover IP Address 1	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address you want to use for connection. This setting is valid only when both "IP Address1" and "IP Address2" are set. Determine whether to enable/disable the "Failover" feature. Enter the IP address that is specified on LAN1 of the BMC configuration for the managed component.
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address Failover IP Address 1	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address you want to use for connection. This setting is valid only when both "IP Address1" and "IP Address2" are set. Determine whether to enable/disable the "Failover" feature. Enter the IP address that is specified on LAN1 of the BMC configuration for the managed component. If the managed component is a fault tolerant server, you should enter the IP
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address Failover IP Address 1	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address you want to use for connection. This setting is valid only when both "IP Address1" and "IP Address2" are set. Determine whether to enable/disable the "Failover" feature. Enter the IP address that is specified on LAN1 of the BMC configuration for the managed component. If the managed component is a fault tolerant server, you should enter the IP address of the management LAN port for the CPU/IO module 0 to the form.
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address Failover IP Address 1	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address you want to use for connection. This setting is valid only when both "IP Address1" and "IP Address2" are set. Determine whether to enable/disable the "Failover" feature. Enter the IP address that is specified on LAN1 of the BMC configuration for the managed component. If the managed component is a fault tolerant server, you should enter the IP address of the management LAN port for the CPU/IO module 0 to the form. If the managed component is a server which has EXPRESSSCOPE Engine SP2(ODMC module) are deabled to the day Deable and the set of the Deable.
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address Failover IP Address 1	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address you want to use for connection. This setting is valid only when both "IP Address1" and "IP Address2" are set. Determine whether to enable/disable the "Failover" feature. Enter the IP address that is specified on LAN1 of the BMC configuration for the managed component. If the managed component is a fault tolerant server, you should enter the IP address of the management LAN port for the CPU/IO module 0 to the form. If the managed component is a server which has EXPRESSSCOPE Engine SP3(2BMC model), you should enter the IP address of the management LAN port for the Master BMC to the form.
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address Failover IP Address 1	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address you want to use for connection. This setting is valid only when both "IP Address1" and "IP Address2" are set. Determine whether to enable/disable the "Failover" feature. Enter the IP address that is specified on LAN1 of the BMC configuration for the managed component. If the managed component is a fault tolerant server, you should enter the IP address of the management LAN port for the CPU/IO module 0 to the form. If the managed component is a server which has EXPRESSSCOPE Engine SP3(2BMC model), you should enter the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the Master BMC to the form.
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address Failover IP Address 1 IP Address 2	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address you want to use for connection. This setting is valid only when both "IP Address1" and "IP Address2" are set. Determine whether to enable/disable the "Failover" feature. Enter the IP address that is specified on LAN1 of the BMC configuration for the managed component. If the managed component is a fault tolerant server, you should enter the IP address of the management LAN port for the CPU/IO module 0 to the form. If the managed component is a server which has EXPRESSSCOPE Engine SP3(2BMC model), you should enter the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the IP address of the management LAN port for the Master BMC to the form. Enter the IP address that is specified on LAN2 of the BMC configuration for the managed component.
Management Type Authentication Key "BMC (EXPRESSSCO Current IP Address Failover IP Address 1 IP Address 2	HW status. Select "BMC". Enter the "authentication key" that you set in "1.2 Configure BMC on Managed Component". PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN) If you set both "IP Address1" and "IP Address2", specify which IP address you want to use for connection. This setting is valid only when both "IP Address1" and "IP Address2" are set. Determine whether to enable/disable the "Failover" feature. Enter the IP address that is specified on LAN1 of the BMC configuration for the managed component. If the managed component is a fault tolerant server, you should enter the IP address of the management LAN port for the CPU/IO module 0 to the form. If the managed component is a server which has EXPRESSSCOPE Engine SP3(2BMC model), you should enter the IP address of the management LAN port for the BMC configuration for the Master BMC to the form. Enter the IP address that is specified on LAN2 of the BMC configuration for the managed component. If the managed component.

	If the managed component is a server which has EXPRESSSCOPE Engine
	SP3(2BMC model), you should enter the IP address of the management
	LAN port for the Standby BMC to the form.
CHECK:	
• *1 If NEC ESM	APRO Manager is installed on Linux system. "SNMP" server
management are	not supported
management are	
CHECK/	
CHECK:	
• *2 If a self-sig	ned certificate is installed on the managed server for HTTPS
communication,	a setting to allow it is required. Refer to "Chapter2 Environment
setting" for detai	ed information.
CHECK:	
 *3 Regarding a n 	ort number for WS-Man communication refer to "Appendix C. Port
number for WS-	Man communication"
IMPORTANT:	
• If BMC(EXPRE	SSSCOPE Engine) management is disabled, NEC ESMPRO
Manager may no	t be able to monitor HW status. Detailed information is shown in the
connection check	result screen.

(4) Click "ADD".

If there is an error in the input content, correct the input content following the message.

	IPRO		About NEC ESMPRO Manager	Help Classic Mode 💄 adm
Auto Registration Server / Storage Network Device Other Computer Device Alert Only Management Computer Network Device Other Computer Device Alert Only Management Destination Group oot = Start PLACE EMMRIDA Agent/ With Management Bindgement Bindgement Management Registration Usregistration Management Registration Usregistration <t< th=""><th>shboard 📲 Register 🚔 Component 🥻</th><th>AlertViewer 🔀 Tools 👻</th><th></th><th></th></t<>	shboard 📲 Register 🚔 Component 🥻	AlertViewer 🔀 Tools 👻		
Sever / Storg Network Deers Other Computer Deers All damagement Unspecter Universal RADD Upper) Non-geistration Destruction Group root - State (rUC CEMERD Agent) / VEM ALL SEX / Storge Unspecter Registration Registration R	Auto Registration Manual Regi	tration		
Component Name (Required) Destination Group Management Registration Updates via MIC Expressipation Updates via MIC Expressipation Updates via MIC Expressipation </td <td>Server / Storage Network Da</td> <td>ice Other Computer Device Alert Only Management</td> <td></td> <td></td>	Server / Storage Network Da	ice Other Computer Device Alert Only Management		
Component Name [Required] BMC Destination Group oct SMMP (MEC ESMPRO Agent) / MS-Man / ESM / Alsonge SMMP (MEC ESMPRO Agent) / MS-Man / ESM / Alsonge Management Management Cargostation Outgestation Management Registration Understation Understation Management Registration Understation Understation Management Registration Understation Understation Management Registration Unregistration Unr	Server / Storage	tee other computer bevice Alertoniy Management		
Alias Destination Group ToOL SNNP (AEC ESMPRIO Agent) / VESMA/ ESX / Storage Management Registration Updates via NICE Express/Update Destination Group Controller Didates via NICE Express/Update Destination Dregistration Dregistration Controller Controller Registration Dregistration	Component Name [Required]	BMC		
Destination Group root # SNMP (NEC ESMPRO Agent) / WS-Man / ESXI / Shorage Management Registration IADD system (Universal RAID Utility) Management Registration Management Registration Updates via NEC ExpressUpdate Registration If MMC (ExpressE	Alias			
SMMP (NEC ESMPRO Agent) / WS-Man / ESKI / IStorage Management Registration RAD system (Universal RAD Utility) Management Registration Updates via MCC ExpressUpdate Updates via MCC ExpressUpdate Dipdates via Management Controller TBMC (EXPRESSECOPE Enginel/TLO//FBMC(Other)//-VPro/Common) Management in generation Management in disabled, NEC ESMPRO MAnager cannot monitor HW errors of some servers. Pase erfor to the result pool of connection check. Management in disabled, NEC ESMPRO MAnager cannot monitor HW errors of some servers. Management in disabled, NEC ESMPRO MAnager cannot monitor HW errors of some servers. Pase effor to the result pool of connection check. Management Type Management in disabled, NEC ESMPRO MAnager cannot monitor HW errors of some servers. Pase effor the result pool of connection check. Management Type Pase effor the result prove material change to the server to the connection cannot monitor HW errors of some servers. Pase effor the result prove material change to the server to the connection check. Management Type Management Type Management Type Pase effort the result pool of the check prove pass of the change to the server better data the base of the the the type of the server prove pass of the change to the pass of the type of type of type of the type of type of type of type o	Destination Group	root ¢		
Management Pegistration RAD system (Universal RAD Utility) Management Pegistration Wregistration Unregistration NEC ExpressUpdate Updates via NEC ExpressUpdate Outdates via NEC ExpressUpdate Pegistration Updates via NEC ExpressUpdate Outdates via NEC ExpressUpdate Registration Updates via Management Controller TBMC (EXPRESSECOPE Engine)/TLO//EMC(Oher)//VPro/Common) Management Management via disabled, NEC ESMPRO Manager cannot nonltor HW errors of some servers. Pelaser CPH LD management is disabled, NEC ESMPRO Manager cannot nonltor HW errors of some servers. Management Type Management Type </td <td>SNMP (NEC ESMPRO Agent) / W</td> <td>-Man / ESXi / iStorage</td> <td></td> <td></td>	SNMP (NEC ESMPRO Agent) / W	-Man / ESXi / iStorage		
RAID system (Universal RAID Utility) Management © Registration Updates via NEC ExpressUpdate © Registration Updates via Management © Registration Controller ® Registration "BMC (EXPRESSSCOPE Engine)"/ILO/"BMC(Other)/V-Wro'(Common) Management. © Registration Vergistration Urregistration *BMC (EXPRESSSCOPE Engine)"/ILO/"BMC(Other)/V-Wro'(Common) Management. © Registration Vergistration Urregistration A. "BMC (EXPRESSSCOPE Engine)" is large for EXPRESSESSCOPE Engine 1/27/37H/25P/35P.EM Card(SIGMABL Abs(EXPRESSSCOPE Engine)" is large for EXPRESSESSCOPE Engine 1/27/37H/25P/35P.EM Card(SIGMABL Abs(EXPRESSSCOPE Engine)" is large for EXPRESSESSCOPE Engine 1/27/37H/25P/35P.EM Card(SIGMABL Abs(EXPRESSSCOPE Engine)" is large for EXPRESSESSCOPE Engine 1/27/37H/25P/35P.EM Card(SIGMABL Abs(EXPRESSSCOPE Engine)" is large for EXPRESSESSCOPE Engine 1/27/37H/25P/35P.EM Card(SIGMABL Abs(EXPRESSSCOPE Engine)" is large for EXPRESSESSCOPE Engine 1/27/37H/25P/35P.EM Card(SIGMABL Abs(EXPRESSSCOPE Engine)"/ILO/"BMC(Other)". Authentication Key [Required] ● IP Address 1 IP Address 1 PE Address 2 IP Address 1 PAddress 1 IP Address 2 <t< td=""><td>Management</td><td>Registration Unregistration</td><td></td><td></td></t<>	Management	Registration Unregistration		
Management Registration VBC ExpressUpdate Updates via NEC ExpressUpdate Agent Controller Controller *BMC (EXPRESSSCOPE Engine) //'LD //'BMC(Other) //'Pro'(Common) Management Registration Unregistration *BMC (EXPRESSSCOPE Engine) //'LD //'BMC(Other) //'Pro'(Common) Management Registration Unregistration *BMC (EXPRESSSCOPE Engine) //'LD //'BMC(Other) //'Pro'(Common) Management *BMC (EXPRESSSCOPE Engine) //'LD //'BMC(Other) // VPro'(Common) A. "BMC(EXPRESSSCOPE Engine) //'LD //'BMC(Other) // VPro'(CAM) A. "BMC(EXPRESSSCOPE Engine) //'LD //'BMC(Other) // VPro'(CAM) Current IP Address 1 IP Address 1 IP Address 1 IP Address 1 IP Address 2	RAID system (Universal RAID Utili	y)		
NEC ExpressUpdate Updates via NEC ExpressUpdate Agent Updates via Nanagement Updates via Nanagement NEG (EXPRESSSCOPE Engine)/7/LD/7/BMC(Other)/7/VPr0/Common) Management * Registration Umregistration * Registration * States effer to the result page of connection check. * Management Type * BMC (EXPRESSSCOPE Engine)* is target for EXPRESSSCOPE Engine)* is target for EXPRESSSCOPE Engine)* is target for EXPRESSSCOPE Engine)* is target for EXPRESS * States = Andrew of the VPC / LAND Current IP Address 1 * P Address 1 * Regis	Management	Registration Unregistration		
Updates via NEC ExpressUpdate Agent Updates via Management Catastic Via Management *Registration 'teMC (EXPRESSSCOPE Engine)'/'LO'/'EMC(Othen)'/'vFro'(Common) Management *Registration Management *Registration Management *Registration Unregistration *Registration	NEC ExpressUpdate			
Updates via Management Controller *BMC (EXPRESSSCOPE Engine)'/'LO/'BMC(Other)'/'V-Pro'(Common) Management <td< td=""><td>Updates via NEC ExpressUpdate Agent</td><td>Registration Unregistration</td><td></td><td></td></td<>	Updates via NEC ExpressUpdate Agent	Registration Unregistration		
'BMC (EXPRESSSCOPE Engine)'/TLO'/BMC(Other)'/'VPro'(Common) Management A. If BMC / LO management is disabled, MEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of connection check. Management Type BMC ILO Management Type BMC (Direct) A. 'BMC(EXPRESSSCOPE Engine)' is target for EXPRESSSCOPE Engine1/2/3/3/t/2SP/3SP, EM Card(SIGMABL ADE), BMC(ECO CENTER), BMC(many core server). For cases other than the above and 'LO' and 'VPro', Please select 'BMC (Other)'. Authentication Key [Required] TBMC (EXPRESSSCOPE Engine)'/TLO'/BMC(Other)'/'VPro'(LAN) Current IP Address Palover IP Address 1 [Required] 192 192 192 192 192 192	Updates via Management Controller	• Registration Unregistration		
Management A. If BMC / LO management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of connection check. Management Type BMC ILD BMC (EXPRESSSCOPE Engine)" is target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SiGMABL ADE), BMC(ECO CENTER), BMC(many core serve). For cases other than the above and "LO" and "VPo", "Please select "BMC (Other)". Authentication Key [Required] "BMC (EXPRESSSCOPE Engine)"/ILO'/FBMC(Other)'/vPro"(LAN) Current IP Address Palover IP Address 1 [Required] 192 168 IP Address 2	"BMC (EXPRESSSCOPE Engine)"/	iL0"/"BMC(Other)"/"vPro"(Common)		
A. If BMC / ILO management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of connection check. Management Type BMC LO BMC (Other) VPro A. "BMC(EXPRESSSCOPE Engine)" is target for EXPRESSSCOPE Engine1/2/3/3f/2SP/3SP, EM Card(SIGMABL ADE, BMC(ECO CENTER), BML(many core serve). For cases other than the above and "LO" and "VPro", Please select "BMC (Other)". Authentication Key [Required] "BMC (EXPRESSSCOPE Engine)"/ILO'/BMC(Other)'/VPro"(LAN) Current IP Address IP Address 1 IP Address 2 IP Address 2 ID Address 2	Management	• Registration 🔘 Unregistration		
Management Type BMC ILO BMC (Other) vPro * "BMC(EXPRESSSCOPE Engine)" is target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL ADE), BMC(EDD CENTER), BMC(many core serve). For cases other than the above and "ILO" and "vPro", Please select "BMC (Other)". Authentication Key [Required]	▲ If BMC / iLO management is Please refer to the result page of	disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. connection check.		
M M For cases other than the above and "LO" and "Vpo", "Please select "BMC (Other)". Authentication Key [Required] TBMC (EXPRESSSCOPE Engine)"/ILO"/BMC(Other)"/'VPro" (LAN) Current IP Address Failover IP Address 1 [Required] IP Address 2 IP Address 2 IP Address 1	Management Type	BMC illo BMC (Other) vPro		
Authentication Key [Required] ••••••••••••••••••••••••••••••••••••	▲ "BMC(EXPRESSSCOPE Engin ADE), BMC(ECO CENTER), BMC(r For cases other than the above a	e)" is target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL anny core server). d "ILO" and "vPro", Please select "BMC (Other)".		
'BMC (EXPRESSECOPE Engine)'/'ILO'/'BMC(Other)'/'VPro'(LAN) Current IP Address O IP Address 1 Failover O IP Address 1 IP address 2 IP Address 1 IP2 IP Address 2 . IP Address 2 .	Authentication Key [Required]			
Current IP Address Piddress Piddre	"BMC (EXPRESSSCOPE Engine)"/	iL0°/″BMC(Other)°/″vPro°(LAN)		
Failover O Enable IP Address 1 [Required] 192 168 IP Address 2 . .	Current IP Address	IP Address 1 IP Address 2		
IP Address 1 [Required] 192 . 168 . 8 . 18 IP Address 2	Failover	Enable Disable		
IP Address 2	IP Address 1 [Required]	192 . 168 . 8 . 18		
	IP Address 2			
		ADD		

(5) "CHECK CONNECTION" screen is displayed.

Click "CHECK CONNECTION" to start it.

ESMPRO	About NEC ESMPRO Manager	Help Classic Mode	💄 admin 🕶
🚯 Dashboard - 🎝 Register 🚔 Component 🛕 AlertViewer 🏃 Tools 👻			
Auto Registration Manual Registration			
Server / Storage Network Device Other Computer Device Alert Only Management			
To remotely manage components, please continue to perform check connection.			
CHECK CONNECTION			

(6) If the "CHECK CONNECTION" is completed, "Connection check results" screen will be displayed.

ESMPRO			About NEC ESMPRO Mana	ger Help	Classic Mode	💄 admin 🕶
🕼 Dashboard 📲 Register 🚔 Component 🛕	AlertViewer 🔀 Tools -					
Auto Registration Manual Regis	stration	Alart Opl	Hannowst			
Server/Storage Network Device Other Computer Device Alert Unity Management						
	Management	Detected	Detail			
	BMC	Detected	SNMP Alert configuration is not completed on BMC (EXPRESSSCOPE Engine). Setting up SNMP Alert configuration is required to send hard ware error alert to NEC ESMPRO Manager. Please set NEC ESMPRO M anager's address as 'Alert Receiver'. Using the BMC (EXPRESSSCOPE E ngine) NEC ExpressUpdate function can be used.			
	ВАСК	TO COMPON	NT LIST CONTINUE REGISTERING			

Detected	Detail				
Detected	The feature was detected.				
	NEC ESMPRO Manager can use the feature to manage the component.				
Not Detected	The feature was not detected.				
	NEC ESMPRO Manager cannot use the feature to manage the component.				
	Click the "Name" of the component that could not be registered in the				
	"Component List". The connection settings screen in Classic mode will be				
	displayed. Please check that there are no errors in the entered items. For more				
	details, please refer to the online help for NEC ESMPRO Manager.				

1.3.3.2 Auto Registration

(1) Click "Register".

ESI	MPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin 🔻	
¢	Dashboard 🖓 Register 🎦 Component 🛕 AlertViewer 💥 Tools 👻		
	Component Status	Alert Status	
	The component is not registered.	No alerts are unread.	
(2) Click the "Server / Storage" of "Auto Registration".

	Register 🛋 Component 🛕 Alert\	iewer 🗶 Tools *	
	_		
<form></form>	Registration Marchal Registration		
	Destination Group	root ¢	
	Discovery Range		
	Discovery Mode	• IP Address Range Discovery O Network Address Discovery	
<form></form>	Start Address [Required]		
<form></form>	End Address [Required]		
	Senior / Storage		
	Content of outlinge		
	SNMP (NEC ESMPRO Agent, iStorage	d series)	
	Discovery	C Enable Disable	
	SNMP Community Name [Required]	public	
	WS-Man (NEC ESMPRO ServerAgentS	rvice, ESXi7 earlier)	
	Discovery	• Enable O Disable	
	Liser Name/Destword [Deswired]	400	
	Over Human Baskord Inclanded		
	ESXI (ESXIB)	56	
	Discovery	C Enable Disable	
RICI ADV (Eldonaged Varies) Discoviry In Standing Dis	User Name/Password [Required]	/ ADD	
Diracy Entry <li< td=""><td>REST API (iStorage V series)</td><td></td><td></td></li<>	REST API (iStorage V series)		
Litr Hamin/Paissond Recarred Image: Compaisson	Discovery	• Enable 🔿 Disable	
unin unincurrent entered upgegereit? RDD rystem (Driversal RADU Unity): Bicory Incory	Liner Name / December 10		
AND system (devectal RADD Unity) Dircory <	User Name/Password [Required]	7	
Dicory	RAID system (Universal RAID Utility)		
NIC LaprestUpdate Lapression Lapr	Discovery	Enable Disable	
Automa and a second and a secon	NEC ExpressUpdate (ExpressUpdate A	gent)	
Dicory	BMC(EXPRESSSCOPE Engine)		
	Discovery	• Enable 🔿 Disable	
NEC Expressibulata Enable Atto Aubentication Key [Required] Atto Recurred Incovery Incove	▲ "BMC(EXPRESSSCOPE Engine)" Is ADE), BMC(ECO CENTER), BMC(many For cases other than the above and "IL ▲ If BMC(EXPRESSSCOPE Engine) r ervers. Please refer to the result page	target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGM core serve). 0° and 'vPro', Please select 'BMC (Other)', nanagement is disabled, NEC ESMPRO Manager cannot monitor HW e of auto registration.	IBL.
Authenticitation Key [Required]	NEC ExpressUpdate	Enable Disable	
LO Discovery Enable Disable A. If LO management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. User Hame/Password [Required] / Δ00 BMC (Other) Discovery Enable A. If SMC(Other/management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. A. If SMC(Other/management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. A. If SMC(Other/management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. A. If SMC(Other/management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. A. If SMC(Other/management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. A. If SMC(Other/management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. A. If SMC(Other/management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. A. If SMC(Other/management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers.	Authentication Key [Required]	ADD	
Lice Discovery Enable Disable A. If Lice management is disabled, NEC ESM/Rio Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. User Hame/Password [Required] I mable <li< td=""><td>10</td><td></td><td></td></li<>	10		
A. If ILO management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of ado registration. User Name/Password [Required]	Discovery	Enable Disable	
	4 Hill Comment in Stabled All	C ESUBDO Measure report marker UN areas of arms streets. Discussion	
User Name/Password [Required]	result page of auto registration.	a source of manager cannot moving? Har errors or some servers. Plea	
BMC (Other) Discovery	User Name/Password [Required]	/ ADD	
Discovery	BMC (Other)		
A. If BMC(Other/management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. Access Mode Auto Redfsh PMI A. If "Auto" is selected as an access method and connection is established with both (IPMI and Redfsh) the access meth ods is. then refer "Priority access mode at the time of automatic velocitor" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process User Name/Password [Required] Auto C Enable C Enable C Enable C Enable C Computer Device C Cother Computer Device	Discovery	• Enable O Disable	
a. In security provides to data registration. C to the result page of auto registration of some servers. Please refer to the result page of auto registration. Access Mode			- New of
Access Mide • Mata • Redint • PMI - M. H"Andh" is selected as an access method and connection is established with both (PMI and Redink) the access method selection optication is classical wide). Intellify access method will get the priority for server registration process. User Name/Password [Required] / _ ADD Intellify official (Required) • Enable _ Imable User Name/Password [Required] / _ ADD Intellify official (Required) • Enable _ Imable User Name/Password [Required] / _ ADD • Network Device _ Imable _ Imable	 If BMC(Other)management is disa r to the result page of auto registration 	DIEG, NEC ESMPRO Manager cannot monitor HW errors of some serve I.	rs. Please refe
H*Aud/Password [Required] / Labele Les Aud/ Labele Les Aud/	Access Mode	O Auto O Redfish O IPMI	
Network screen and selected access method will get the priority for server registration process. User Name/Password [Required] Intel(II) vPro(TM) Technology Discovery C Enable Disable User Name/Password [Required] Network Device Other Computer Device	\bigtriangleup If "Auto" is selected as an access ods i.e. then refer "Priority access mo	nethod and connection is established with both (IPMI and Redfish) the de at the time of automatic selection" option in Classic Mode's Environ	eaccess meth ment-Settings
User Name/Password [Required] / ADD Intel(II) vPro(TM) Technology Discovery • Enable Disable User Name/Password [Required] / ADD • Network Device	Network screen and selected access	nethod will get the priority for server registration process.	
Intel(R) vPro(TM) Technology: Discovery	User Name/Password [Required]	/ ADD	
Discovery	Intel(R) vPro(TM) Technology		
User Name/Password [Required] / ADD C Network Device C Other Computer Device	Discovery	C Enable O Disable	
Network Device Other Computer Device	Hear Nama/Daenwood Incoursed	7	
Network Device Other Computer Device	over warnes e assword [kedning]		
C Other Computer Device	Network Device		
	Other Computer Device		

(3) Input the following items:

Name	Value
Destination Group	Specify the group to which the managed component will belong. See "1.3.2
1	Add component to Group" for the information about creating group.
Discovery Range	
Discovery Mode	With "IP Address Range Discovery" selected, the NEC ESMPRO Manager searches for the managed components using the IP address range. With "Network Address Discovery" selected, the NEC ESMPRO Manager searches for the managed components using the specified network address.
Start Address	When you select "IP Address Range Discovery" for "Discovery Mode",
End Address	specify the start IP address and end IP address of the range in which managed components are to be searched for.
Network Address	When you select "Network Address Discovery" for "Discovery Mode",
Network Mask	specify the network address and network mask of the managed component to be searched for.
SNMP (NEC ESMPRO	Agent, iStorage M series)
Discovery	Select "Enable" to manage the system of the component.*1
SNMP Community	SNMP Community Name which is specified at SNMP Agent running on
Name	the managed component.
	It is necessary to get the information, configure, monitor via SNMP
WS-Man(NEC ESMPR	O ServerAgentService, ESXi7)
Discovery	Select "Enable" to manage VMware ESXi of the component. *1,*2, *5
User Name/Password ESXi (ESXi8) Discovery User Name/Password	 Sciect Enable to manage vivial ESAFOT the component. 1, 2, 5 Enter username and password for WS-Man communication. The account must be a system administrator of the managed operating system. Click "Add" button and you can add a pair of username and password up to 5. *3 NEC ESMPRO ServerAgentService (Windows) is installed. Enter Username(Local User Accounts)/Password of Windows system Administrator (does not use a user object in Active Directory Domain Services) NEC ESMPRO ServerAgentService (Linux) is installed. Enter root/Password of Linux operating system The operating system of the managed component is VMware ESXi7. Enter Username/Password of VMware ESXi Administrator Select "Enable" to manage ESXi (ESXi8) of the component. *1,*2 Enter username and password for ESXi (ESXi8) communication. The account must be a system administrator of the managed operating system. Click "Add" button and you can add a pair of username and password up to 5. *3
REST A PI(iStorage V s	eries)
Discovery	Select "Disable"
PAID system (Universe	
Management	Select "Enable" to manage the RAID system of the component
	 The operating system of the managed component is VMware ESXi7. WS-Man management must be enabled in addition to this setting. The managed component is Express5800/ft server. The RAID system management feature unregistered because there is no utility to manage the RAID system.
	Unregistration ".

NEC ExpressUpdate (E)	xpressUpdate Agent)
Updates via NEC	Select "Enable" to manage the component using NEC ExpressUpdate.
ExpressUpdate Agent	
BMC (EXPRESSSCOP	E Engine)
Discovery	Select "Enable" otherwise NEC ESMPRO Manager may not monitor HW
	status.
NEC ExpressUpdate	Select "Enable" to feature NEC ExpressUpdate.
Authentication Key	Enter the "authentication key" that you set in "1.2 Configure BMC on
	Managed Component". *3 *4
iLO	
Discovery	When you discover components which have EXPRESSSCOPE Engine3,
	this item should be "Disable".
BMC (Ohter)	
Discovery	When you discover components which have EXPRESSSCOPE Engine3,
	this item should be "Disable".
Intel(R) vPro(TM) Tech	nology
Discovery	When you discover components which have EXPRESSSCOPE Engine3,
	this item should be "Disable".

CHECK:

•	*1 If NEC ESMPRO Manager is installed on Linux system, "SNMP" and VMware	
	ESXi management are not supported.	

CHECK: *2 If a self-signed certificate is installed on the managed server for HTTPS communication, a setting to allow it is required. Refer to "1.1 Setup Flow" for

detailed information.

CHECK:

 *3 On "Environment" - "Auto Registration Setting List" screen, you can manage a list of username/password and authentication key. All entries in the list are used for auto registration every time.

CHECK:

- *4 If you register the "Management Controller" management for a fault tolerant server, you should specify the search range which includes BMC IP addresses of CPU/IO module 0 and 1.
- *4 If you register the "Management Controller" management for a server which has EXPRESSSCOPE Engine SP3(2BMC model), you should specify the search range which includes both BMC IP addresses of Master and Standby.

СНЕСК:

 *5 If you want to use HTTPS for WS-MAN communication with ESMPRO/ServerAgentService, refer to Chapter 2, Installation 3.3 HTTPS Setting in the ESMPRO/ServerAgentService Installation Guide (Windows).

IMPORTANT:

• If BMC(EXPRESSSCOPE Engine) management is disabled, NEC ESMPRO Manager may not be able to monitor HW status. Detailed information is shown in the connection check result screen.

(4) Click "RUN DISCOVERY".

🗴 Register 📾 Component 🛕	AlertViewer 🎗 Tools -	
o Registration Manual Registr	ation	
Destination Group	root ¢	
Discovery Range		
Discovery Mode	• IP Address Range Discovery O Network Address Discovery	_
Start Address [Required]	192 . 168 . 8 . 18	
End Address [Required]	192 168 8 18	
Server / Storage		
SNMP (NEC ESMPRO Agent, iSto	rage M series)	
Discovery	C Enable O Disable	
WS-Man (NEC ESMPRO ServerAg	entService, ESXi7 earlier)	
Discovery	C Enable O Disable	
ESXI (ESXI8)		
Discovery	Enable O Disable	
REST API (iStorage V series)		
Discovery	Enable Disable	
RAID system (Universal RAID Util	Crachin C Dischin	
NEC ExpressUpdate (ExpressUpd	late Agent)	
Discovery	Enable Disable	
BMC(EXPRESSSCOPE Engine)		
Discovery	Enable Disable	
▲ "BMC(EXPRESSSCOPE Engin ADE), BMC(ECO CENTER), BMC(For cases other than the above a ▲ If BMC(EXPRESSSCOPE Engineervers. Please refer to the result	he)" is target for EXPRESSSCOPE Engine 1/2/3/3ft/2SP/3SP, EM Card(SIGMABL many core server). nd "LLO" and "vPro", Please select "BMC (Other)". ing) management is disabled, NEC ESMPRO Manager cannot monitor HW errors of s page of auto registration.	some s
NEC ExpressUpdate	• Enable O Disable	
Authentication Key [Required]	ADD	
iLO		
Discovery	C Enable O Disable	
BMC (Other)		
Discovery	C Enable O Disable	
Intel(R) vPro(TM) Technology		
Discovery	C Enable O Disable	
Network Device		

CHECK: When you click the "RUN DISCOVERY", you may see a message "The search cannot be started. ". If you have enabled "WS-Man Discovery" or "ESXi Discovery", please check whether a "Self Signed Certificate" is allowed in section "1.3.1 Environment setting".

When you click the "RUN DISCOVERY", the discovery for components will begin and the "Auto Registration in Progress" screen will be displayed.

ESMPRO		About NEC ESMPRO Mana	ger Help Classic Mode	💄 admin 🕶
🚯 Dashboard 📲 Register 🚔 Co	omponent 🛕 AlertViewer 🎇 Tools 👻			
Auto Registration	Manual Registration			
	Auto Re	egistration in Progress		
	Discovery Mode	IP Address Range Discovery		
	Start Address	192.168.8.18		
	End Address	192.168.8.18		
	. ▲ Even if switch screens or log	CANCEL out, you can check the progress by opening this screen again.		

(5) If the "Auto Registration" is completed, following message will be displayed. Click "OK".



(6) The components registered will be displayed on the "Auto Registration Results" screen.

RO nboard 📲 Register 📾 Component 🛕 Aler	tViewer 🎇 Tools -		About NEC Et	SMPRO Manager Help Classic Mode 🛓 admi
Auto Registration Manual Registration	on			
		Auto Registration Res	ults	
Entry Count:1item(s)				
Name IP Address	Management LAN IP Address 1	Management LAN IP Address 2	Install NEC ExpressUpdate Agent	Contents
ManagementController	192.168.8.18		ExpressUpdate (BMC Controller) Enable	The component was added.
	ВАС	K TO COMPONENT LIST CONTIN	NUE REGISTERING	

Name Component name IP address IP address Management LAN IP Address 1 BMC (EXPRESSSCOPE Engine) /iLO/BMC (Other) /vPro) Ø IP address Ø IP address Management LAN IP Address 2 IP address of BMC (EXPRESSSCOPE Engine) (device support LAN port2) Install NEC ExpressUpdate Agent • ExpressUpdate is enable When "NEC ExpressUpdate (ExpressUpdate Agent)" is enabled, and a component that can be installed with ExpressUpdate Agent is discovered. • ExpressUpdate is disable • NEC ExpressUpdate (ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent. Contents • A component has been added. This message will be displayed if the component is successfully registered.	Name	Description
IP address IP address Management LAN IP Address 1 BMC (EXPRESSSCOPE Engine) /iLO/BMC (Other) /vPro) Ø IP address IP address of BMC (EXPRESSSCOPE Engine) (device support LAN port2) Install NEC ExpressUpdate Agent • ExpressUpdate is enable When "NEC ExpressUpdate (ExpressUpdate Agent)" is enabled, and a component that can be installed with ExpressUpdate Agent is discovered. • ExpressUpdate is disable • NEC ExpressUpdate (ExpressUpdate Agent)" is disable • "NEC ExpressUpdate is disable • NEC ExpressUpdate (ExpressUpdate Agent)" is disable • NEC ExpressUpdate (ExpressUpdate Agent)" is disable • NEC ExpressUpdate (ExpressUpdate Agent)" is disable • NEC ExpressUpdate is not component that can be installed with ExpressUpdate Agent. • A component has been added. Contents • A component has been added. This message will be displayed if the component is successfully registered.	Name	Component name
Management LAN IP Address 1 BMC (EXPRESSSCOPE Engine) /iLO/BMC (Other) /vPro) Ø IP address IP address of BMC (EXPRESSSCOPE Engine) (device support LAN port2) Install NEC ExpressUpdate Agent • ExpressUpdate is enable When "NEC ExpressUpdate (ExpressUpdate Agent)" is enabled, and a component that can be installed with ExpressUpdate Agent is discovered. • ExpressUpdate is disable • ExpressUpdate (ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent. Contents • A component has been added. This message will be displayed if the component is successfully registered.	IP address	IP address
Ø IP address Management LAN IP Address 2 IP address of BMC (EXPRESSSCOPE Engine) (device support LAN port2) Install NEC ExpressUpdate Agent • ExpressUpdate is enable When "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, and a component that can be installed with ExpressUpdate Agent is discovered. • ExpressUpdate is disable • NEC ExpressUpdate(ExpressUpdate Agent)" is disable • NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent. Contents • A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.	Management LAN IP Address 1	BMC (EXPRESSSCOPE Engine) /iLO/BMC (Other) /vPro)
Management LAN IP Address 2IP address of BMC (EXPRESSSCOPE Engine) (device support LAN port2)Install NEC ExpressUpdate Agent• ExpressUpdate is enable When "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, and a component that can be installed with 		O IP address
LAN port2)Install NEC ExpressUpdate Agent• ExpressUpdate is enable When "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, and a component that can be installed with ExpressUpdate Agent is discovered.• ExpressUpdate Agent is discovered.• ExpressUpdate is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent.Contents• A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.	Management LAN IP Address 2	IP address of BMC (EXPRESSSCOPE Engine) (device support
Install NEC ExpressUpdate Agent• ExpressUpdate is enable When "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, and a component that can be installed with ExpressUpdate Agent is discovered.• ExpressUpdate Agent is discovered.• ExpressUpdate is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent.Contents• A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.		LAN port2)
When "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, and a component that can be installed with ExpressUpdate Agent is discovered. • ExpressUpdate is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent. Contents • A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.	Install NEC ExpressUpdate Agent	ExpressUpdate is enable
enabled, and a component that can be installed with ExpressUpdate Agent is discovered. • ExpressUpdate is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent. Contents • A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.		When "NEC ExpressUpdate(ExpressUpdate Agent)" is
ExpressUpdate Agent is discovered. • ExpressUpdate is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent. Contents • A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.		enabled, and a component that can be installed with
• ExpressUpdate is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent. Contents • A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.		ExpressUpdate Agent is discovered.
 ExpressUpdate is disable "NEC ExpressUpdate(ExpressUpdate Agent)" is disable "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent. Contents A component has been added. This message will be displayed if the component is successfully registered. Management Controller management cannot be used. 		
- "NEC ExpressUpdate(ExpressUpdate Agent)" is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent. Contents • A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.		• ExpressUpdate is disable
- "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent. Contents • A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.		- "NEC ExpressUpdate(ExpressUpdate Agent)" is disable
but there is not component that can be installed with ExpressUpdate Agent. Contents • A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.		- "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled,
Contents • A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.		but there is not component that can be installed with
Contents • A component has been added. This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.		ExpressUpdate Agent.
This message will be displayed if the component is successfully registered. • Management Controller management cannot be used.	Contents	• A component has been added.
successfully registered.Management Controller management cannot be used.		This message will be displayed if the component is
Management Controller management cannot be used.		successfully registered.
		• Management Controller management cannot be used.
Hardware monitoring function is unavailable.		Hardware monitoring function is unavailable.
This message will be displayed when BMC (EXDDESSSCODE anging)/iLO/DMC (ather)/vDra connet		This message will be displayed when BMC (EVDESSSCOPE or ging)/iLO/DMC (athen)/vDro connet
(EXPRESSSCOPE engine)/ILO/BMC (other)/VPro cannot be discovered for a component registered by an OS ID		(EXPRESSSCOPE engine)/1LO/BMC (other)/VPro cannot be discovered for a component registered by an OS ID
address. If you want to register the Management Controller		address. If you want to register the Management Controller
management function click the "Name" The connection		management function click the "Name" The connection
settings screen in Classic mode will be displayed, so you		settings screen in Classic mode will be displayed, so you
can perform the registration here.		can perform the registration here.

TIPS:

 If the system management cannot discover the managed component name, the "Name" of "Component List" will be "ManagementController". The following components will be named "ManagementController + number". If you want to change the name, click the "Name" in the "Component List" to launch Classic mode, and then click "Setting" -> "Connection Setting" -> "Edit" to change component name.

1.3.3.3 Auto Registration Setting

Before executing auto registration, User Name/Password and Authentication Key can be registered up to 5. Using this feature, you do not have to enter these information for each auto registration process. Executing auto registration, User Name/Password and Authentication Key entered in this screen are used in addition to the information entered in auto registration screen.

(1) Click "Environment" from "Settings" menu.

MPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin -
Dashboard 👌 Register 🚔 Component 🛕 AlertViewer 🂥 Tools 👻 💠 Settings 🔹	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click "Auto Registration Setting" and enter each item.

User Accounts Access Control	Network Option	Auto Registration Setting	
Auto Registration Setting List			
WS-Man (NEC ESMPRO ServerAg	entService, ESXi7 earlier)		
User Name/Password		/	ADD
ESXI (ESXI8)			
User Name/Password		/	ADD
iLD			
User Name/Password		/	ADD
BMC(EXPRESSSCOPE Engine)			
Authentication Key		ADD	
BMC (Other)			
User Name/Password		1	ADD
Intel(R) vPro(TM) Technology			
User Name/Password		/	ADD
REST API (IStorage V series)			

WS-Man (NEC ESMPRO ServerAgentService, brfore ESXi7)

- "User Name/Password"

Enter a pair of username and password for WS-Man auto registration. You can enter up to 5 pairs.

ESXi (ESXi8)

- "User Name/Password"

Enter a pair of username and password for ESXi auto registration. You can enter up to 5 pairs.

BMC (EXPRESSSCOPE Engine)

- Authentication Key

Enter an authentication key for BMC auto registration. You can enter it up to 5. Refer to "1.2 Configure BMC on Managed Component" for more information about Authentication Key.

iLO

- "User Name/Password"

Enter a pair of user name and password for iLO auto registration. You can enter up to 5 pairs.

BMC (Other)

- "User Name/Password"

Enter a pair of user name and password for BMC (Other) auto registration. You can enter up to 5 pairs.

Intel(R) vPro(TM) Technology

- "User Name/Password"

Enter a pair of user name and password for vPro auto registration. You can enter up to 5 pairs.

REST API (iStorage V series)

- "User Name/Password"

Please enter the username and password that will be used to discovery for the REST API (iStorage V series) Management during Auto Registration. You can enter up to 5 pairs.

Chapter2 Setup for Managed Component in which a BMC excluding EXPRESSSCOPE Engine 3 is integrated

This chapter explains the setup procedure for the NEC ESMPRO Manager to manage the BMC and NEC ESMPRO Agent Extension ver1.xx (or NEC DianaScope Agent) on a managed component remotely via LAN connection.

2.1 Setup Flow

Perform the following setup procedure:

- (1) Connect the NEC ESMPRO Manager server and the managed component on the same network.
- (2) Configure BMC on the managed component.
- (3) Register the managed component on the NEC ESMPRO Manager.

2.2 Configure BMC on Managed Component (for LAN connection)

Configure BMC of the managed component at first.

.....

TIPS:

• This section explains about the minimum setting that is necessary for connection the NEC ESMPRO Manager with the managed component. For details of BMC configuration, see document of each tool.

There are two methods for configuring the BMC on a managed component for LAN connection.

Configuration with NEC ESMPRO Agent Extension ver.1.xx, NEC DianaScope Agent or "System Management" tool of NEC EXPRESSBUILDER CD-ROM

This section explains the configuration procedure using NEC ESMPRO Agent Extension for Windows.

CHECK:

- There are other BMC configuration tools, but do not use the following tools for setup with NEC ESMPRO Manager.
 - -- NEC MWA Agent

-- "System management" started from NEC EXPRESSBUILDER that does not

contain NEC ESMPRO Manager.

Configuration with NEC EXPRESSBUILDER DOS based with remote console feature.

NEC EXPRESSBUILDER DOS based with remote console feature is to configure the BMC on the managed component when a keyboard is not connected.

CHECK:

- Configuration with NEC EXPRESSBUILDER DOS based with remote console feature can be available only from the NEC EXPRESSBUILDER that contains NEC ESMPRO Manager.
 - See the user's guide provided with the managed component about NEC EXPRESSBUILDER DOS based with remote console feature.

If there is the description about NEC EXPRESSBUILDER DOS based with remote console feature, the feature is available.

2.2.1 Configuration with NEC ESMPRO Agent Extension ver1.xx (for LAN connection)

2.2.1.1 Configuration with NEC ESMPRO Agent Extension ver1.xx for Windows

This section explains the configuration procedure using NEC ESMPRO Agent Extension for Windows.

- (1) After booting Windows on the managed component, click Windows "start" and start the BMC configuration function of NEC ESMPRO Agent Extension.
- (2) The main dialog box will be appeared. Click "Set Configuration". When a confirmation message is displayed, click "OK".

The following screen shows example for the managed component that the BMC uses standard LAN port.

	RO Agent	Extension	
Configurati	on Set Confi	guration	Confirmation of Alert Alert Test
Read	File	Write File	
Sela	ect IP addr	ess for Agent	Close
BMC	IP address	Synchronization	
			_
– System Info BMC Firm	ormation — ware Vers: 00.1.Sc	ion 00.53	

(3) "BMC Configuration" dialog box will be display. Click "Common" tab page.

Be sure to set the below item. The other items can be used with the default values.

- -- "Computer Name"
- Enter a unique name for each managed component.
- -- "Authentication Key"

The following screen shows example.

BMC Configuration						×
Common LAN1 LAN	2 WAN/Di	irect Pager				
– Management Informatic						
in an agement mionnate						
Model Name : xx	xxx					
Comment 1 :						
Comment 2 :						
-						
BMC Common						
Computer Name :	Blueberry		Remote Control	Enable	C Disable	
Authentication Key :	*****		Remote Control (WAN/Direct):	Enable	O Disable	
Community Name :	public		Redirection (LAN):	Enable	C Disable	
Alert: 0	• Enable	O Disable	Redirection (WAN/Direct):	Enable	O Disable	
Alert Process : (O All	🖲 One	Remote Control	Enable	🔿 Disable	
Alert Acknowledge: (🖲 Enable	🔿 Disable	(DANZ).			
Alert Level:	Level4 (Non-	recoverble, Critic	al, Non-critical, OK)	•	Alert Order	
Default	Value			OK	Cancel	

TIPS:

If a managed component is compatible with SOL and "Enable" is selected for the item "Redirection (LAN)," the following items necessary for the remote console via the LAN will be changed automatically.

.....

"Common" tab page - "Redirection (WAN/Direct)": Enable

"WAN/Direct" page - "Flow Control": RTS/CTS

(4) Select "LAN1" tab page for LAN port 1 of the BMC.

Set the below items. The other items can be used with the default values.

-- "Obtain an IP Address automatically (DHCP)"

Determine whether to dynamically obtain an IP address from a DHCP server.

- If the item is set enable and registered, the BMC set the value obtained from DHCP server on "IP Address", "Subnet Mask" and "Default Gateway".
- You can set enable on the item only if the BMC supports this capability.

-- "IP Address"

Case that BMC on the managed component uses Management LAN port; enter the IP address for the Management LAN port.

Case that BMC on the managed component uses a standard LAN port; be sure to make the setting identical to the setting on the operating system of the managed component.

- -- "Subnet Mask" Enter the subnet mask for the IP address.
- -- "Default Gateway"

Enter the default gateway if the managed component connects to NEC ESMPRO Manager Server via any gateway

-- "Alert Receiver / Management PC IP Address" - "Primary". Enter the IP address of the management PC.

The following screen shows example.

BMC Configuration
Common LAN1 WAN/Direct
Server Obtain an IP Address Enable C Disabination utomatically(DHCP) 192.168.14.141 Subnet Mask : 255.255.255.0 Default Gateway: Tertiary : Alert Retry Alert Retry Count : 3
Default Value OK Cancel

TIPS:

• The "LAN2" tab is displayed only when the managed component's BMC supports communication via LAN2. To communicate with the NEC ESMPRO Manager via LAN2, make the setting on the "LAN2" tab as same as "LAN1" tab.

CHECK:

- Please set the following items for NEC ESMPRO Manager to receive alerts from the BMC.
 - LAN1 / LAN2
 - Alert Receiver / Management PC IP Address
 - Primary :
 - IP address of the management PC on which NEC ESMPRO Manager is installed.
- * Please set the checkbox to enable.

(5) If you set "Default Gateway", please connect the managed component via LAN port used by BMC and the gateway to network.

If you set "Alert Receiver / Management PC IP Address" on same network with the managed component, please connect the managed component via LAN port used by BMC and the alert receiver/management PC to network.

(6) Click "OK".

The configuration information will be set in the BMC. The MAC addresses of the gateway and the alert receivers will be also set in the BMC.

2.2.1.2 Configuration with NEC ESMPRO Agent Extension ver.1.xx for Linux

This section explains the configuration procedure using NEC ESMPRO Agent Extension ver.1.xx for Linux.

(1) After booting Linux on the managed component, start the BMC configuration function of NEC ESMPRO Agent Extension by the following command.

/opt/nec/esmpro_sa_ex_sysman/agentconf

(2) "Main Menu" screen will be displayed.Select "Set System Management Parameters".

The following screen shows example for the managed server that the BMC uses standard LAN port.

BMC Config	uraion function Version 1.07
	Main Menu System Information Set System Management Parameters BMC IP address Synchronization Select IP address for Agent Exit
[Enter] se	lect [F12] help

(3) "Set System Management Parameters" screen will be displayed. Select "Configuration".

BMC Config	uraion function Version 1.07	
	Set System Management Parameters Configuration Alert Test Return to previous menu	
[Enter] se	elect [ESC] return [F12] help	

(4) "Configuration" screen will be displayed. Select "Set Configuration".

BMC Config	uraion function Version 1.07
	Configuration
	Set Configuration Default Value Read File Write File Return to previous menu
[Enter] se	lect [ESC] return [F12] help

(5) "BMC Configuration" screen will be displayed. Select "Common".

BMC Configuration Alert Order LAN1 LAN1(Alert) LAN2 LAN2(Alert) WAN/Direct WAN(Alert)
Save BMC Configuration Return to previous menu

(6) "Common" screen will be displayed.

Be sure to set the below item. The other items can be used with the default values.

- -- "Computer Name"
 - Enter a unique name for each managed server.
- -- "Authentication Key"

The following screen shows example.

Model Name Comment 1	Common Express5800/110Ba-e3 [N8400-023]	
Comment 2 Computer Name Authentication Key Community Name Alert Alert Process Alert Acknowledge	host1 ++++++ public (*) Enable () Dischie (*) une () All (*) Enable () Dischie	
Alert Level *Remote Control LAN1 LAN2	(*) Enable () Disable (*) Enable () Disable (*) Enable () Disable	#
WAN/Direct *Redirection LAN WAN/Direct	(*) Enable () Disable (*) Enable () Disable (*) Enable () Disable	

•	If a managed server is compatible with SOL and "Enable" is selected for the item
	LAN will be abar and automatically.
	LAN will be changed automatically.
	Common screen - Redirection (WAN/Direct) : Enable $ WAN/D = E = C_{1} + E = D_{2} + $
	"WAN/Direct" screen - "Flow Control": RTS/CTS
CH	IECK:
•	Please set the following items for NEC ESMPRO Manager to receive alerts from the
	BMC.
	- LAN1 (Alert) / LAN2 (Alert) :
	- Primary Alert Receiver : Enable
	- IP Address:
	IP address of the management PC on which NEC ESMPRO Manager is
	installed.

-- "Obtain an IP Address automatically (DHCP)" Determine whether to dynamically obtain an IP address from a DHCP server.
If the item is set enable and registered, the BMC set the value obtained from DHCP server on "IP Address", "Subnet Mask" and "Default Gateway".
You can set enable on the item only if the BMC supports this capability.

Tou can set enable on the nem only if the BMC supports this ca

--"IP Address"

Case that BMC on the managed server uses Management LAN port; enter the IP address for the Management LAN port.

Case that BMC on the managed server uses a standard LAN port; be sure to make the setting identical to the setting on the operating system of the managed server.

-- "Subnet Mask"

Enter the subnet mask for the IP address.

-- "Default Gateway"

Enter the default gateway if the managed server connects to NEC ESMPRO Manager Server via any gateway

The following screen shows example.

Obtain an IP Address autor () Enable (*) Disable	natically(DHCP)
IP Address Subnet Mask Default Gateway	192.168.14.53 255.255.254.0 0.0.0.0
<u><0</u>	♥ <cancel></cancel>

-- "Alert Receiver / Management PC IP Address" - "Primary". Enter the IP address of the management PC.

The following screen shows example.

Alert Receiver/Management PC (Primary) Alert () Enable () Dis IP Address 192, 168, 14, 197
Alert Receiver/ManagementPC (Secondary)Alert() Enable () DisIP Address0.0.0.0*Alert Receiver/ManagementPC (Tertiary)Alert() Enable (*) DisIP Address0.0.0.0*Alert Retry0.0.0.0*Alert Retry0.0.0.0*Alert Retry3 (0 - 7 times)Alert Timeout6 (3 - 30 seconds)
KOK> KCancel>

CHECK: • The "LAN2" in "BMC Configuration" screen is displayed only when the managed

- component's BMC supports communication via LAN2. To communicate with the NEC ESMPRO Manager via LAN2, make the setting on the "LAN2" and "LAN2(Alert)" as same as "LAN1" and "LAN1(Alert)".
- (8) If you set "Default Gateway", please connect the managed component via LAN port used by BMC and the gateway to network.

If you set "Alert Receiver / Management PC IP Address" on same network with the managed component, please connect the managed component via LAN port used by BMC and the alert receiver/management PC to network.

(9) Select "Save BMC Configuration" from "BMC Configuration" screen.

The configuration information will be set in the BMC. The MAC addresses of the gateway and the alert receivers will be also set in the BMC.

2.2.2 Configuration with NEC EXPRESSBUILDER DOS based with remote console feature (for LAN connection)

NEC EXPRESSBUILDER DOS based with remote console feature can configure the BMC on the managed component with the configuration information FD containing the configuration information.

CHECK:

- Configuration with NEC EXPRESSBUILDER DOS based with remote console feature is available only from the NEC EXPRESSBUILDER that contains NEC ESMPRO Manager.
- See the user's guide provided with the managed component about NEC EXPRESSBUILDER DOS based with remote console feature. If there is the description about NEC EXPRESSBUILDER DOS based with remote console feature, the feature is available.
- See "The installation of BMC Configuration" in "chapter4 Applendix 1.4 BMC Configuration" of "NEC ESMPRO Manager Ver. 7 Installation Guide" for the information about installstion of NEC ESMPRO BMC Configuration.

Perform the following procedure:

(1) Create a configuration information file

(2) Run NEC EXPRESSBUILDER DOS based with remote console feature

2.2.2.1 Create a configuration information file

(1) Start the NEC ESMPRO Manager configuration installed on any PC to create the configuration information file.

🖳 🖀 DianaScope Configuration	×
Configuration	
New Change	
Read from FD	Close

(2) Click "New". The confirming message will be displayed. Click "OK".

- (3) The "BMC Configuration" dialog box will appear. Click "Common" tab page.
 - Be sure to set the below item. The other items can be used with the default values.
 - -- "Computer Name"
 - Enter a unique name for each managed component
 - -- "Authentication Key"
 - -- Set "Remote Control (LAN)", "Remote Control (WAN/Direct)", "Redirection (LAN)" and "Redirection (WAN/Direct)" to enable

The following screen shows example.

BMC Configuration						x
Common LAN1 LA	N2 WAN/Di	rect Pager				
Management Informa	tion					
Model Name : 🛛 🗙	xxxx					
Comment 1 :						
L Comment 2 : D						
Comment 2.						
DMC Common						
BMC Lommon			Barrata Cantral	G. Frankla	C. North	
Computer Name :	Blueberry		(LAN1):	💌 Enable	Ulsable	
Authentication Key	*****		Remote Control	Enable	O Disable	
Community Name :	public		Redirection (LAN):	Enable	O Disable	
Alert:	Enable	C Disable	Redirection	Enable	C Disable	
Alert Process :	O All	One	Remote Control	Enable	C Disable	
Alert Acknowledge:	💿 Enable	🔿 Disable	(LANZ):			
Alert Level:	Level4 (Non-	recoverble, Critic	al, Non-critical, OK)	T	Alert Order	
Defau	ilt Value			OK	Cancel	

(4) Select "LAN" tab page for LAN port 1 of the BMC.

Set the below items. The other items can be used with the default values.

- -- "Obtain an IP Address automatically (DHCP)"
 - Determine whether to dynamically obtain an IP address from a DHCP server.

If the item is set enable and registered, the BMC set the value obtained from DHCP server on "IP Address", "Subnet Mask" and "Default Gateway".

- You can set enable on the item only if the BMC supports this capability.
- -- "IP Address"

Case that BMC on the managed component uses Management LAN port; enter the IP address for the Management LAN port.

Case that BMC on the managed component uses a standard LAN port: be sure to make the setting identical to the setting on the operating system of the managed component.

-- "Subnet Mask"

Enter the subnet mask for the IP address.

-- "Default Gateway"

Enter the default gateway if the managed component connects to the management PC via any gateway, -- "Alert Receiver / Management PC IP Address" - "Primary"

Enter the IP address of the management PC.

The following screen shows example.

BMC Configuration	
Common LAN LAN2 WAN/Direct Pager	
Server Obtain an IP Address automatically(DHDP) C Enable C Disable IP Address : 192.168.14.141 Subnet Mask : 255.255.255.0 Default Gateway :	Alert Alert Receiver / Management PC IP Address Primary : 192.168.14.197 Secondary : Tertiary : Alert Retry Alert Retry Alert Retry Count : 3 times Alert Timeout : 6 seconds
	OK Cancel Apply

СН	IF.C.K.
•	To communicate with the NEC ESMPRO Manager via LAN2, make the setting on the "LAN2" tab as same as "LAN" tab. If the BMC of the managed component does not support communication via LAN2, the values of "LAN2" tab page have no effect with the managed component. The managed component installed the BMC that uses Management LAN port supports the function of "Obtain an IP Address automatically (DHCP)".
СН	IECK:
•	Please set the following items for NEC ESMPRO Manager to receive alerts from the
	BMC.
	- LAN1 / LAN2
	- Platform Event Filter · Enable
	- Alert Receiver / Management PC IP Address :
	Drimony
	- Primary:
	IP address of the management PC on which NEC ESMPRO Manager is

- (5) Insert a formatted floppy disk into the FD drive, and click "OK". A dialog box will appear for specifying a location where the configuration information is to be saved.
- (6) Specify the floppy disk's root directory as the location. Enter "CSL_LESS.CFG" for the file name, and click "OK".

The configuration information file will be saved on the floppy disk. This floppy disk is called a "configuration information FD".

СНЕСК:

• Place the configuration information FD in the write-enable state.

2.2.2.2 Run NEC EXPRESSBUILDER DOS based with remote console feature

(1) If you set "Default Gateway" at creating the configuration information file, please connect the managed component via LAN port used by BMC and the gateway to network. If you set "Alert Receiver / Management PC IP Address" on same network with the managed component at creating the configuration information file, please connect the managed component via LAN port used by BMC and the alert receiver/management PC to network.

(2) Configure the BMC of the managed component with the configuration information.

Insert the NEC EXPRESSBUILDER CD-ROM into the CD-ROM drive and the "configuration information FD" into the FD drive on the managed component. And then turn on the component. After NEC EXPRESSBUILDER DOS based with remote console feature is started and the configuration information is loaded from the FD into the managed component. The MAC addresses of the gateway and the alert receivers will be also set in the BMC. And then the Operating System will be rebooted.

..... TIPS: If the setting in the configuration information file is already configured, the managed component will be not rebooted. When the console-less function for LAN connection is used, the BIOS settings are changed as follows: Serial Port Address: On Board COM B (only for the managed server supporting SOL) Baud Rate: 19.2kbps (only for the managed server supporting SOL) Flow Control : RTS/CTS for the managed server supporting SOL No Flow for the managed server not supporting SOL Terminal Type (Console Type): PC-ANSI (only for the managed server supporting SOL) To check whether that the managed component supports SOL, see Appendix D. Managed Components Summary The managed component is opened the main menu of the NEC EXPRESSBUILDER after executing the feature. After registering the managed component on the NEC ESMPRO Manager and confirm the remote console for the managed component, remove the NEC EXPRESSBUILDER from the CD-ROM drive if you need.

2.2.3 Configuration with NEC EXPRESSBUILDER System Management (for LAN connection)

This section explains the configuration procedure using NEC EXPRESSBUILDER System Management.

- (1) After booting NEC EXPRESSBUILDER on the managed component, select "System Management" from "TOOL MENU".
- (2) The main screen will be appeared. Select "System Management".

ystem Management	Rev. 5.00P	
Display Firmware Managemen	nt Information	_
Set System Management Para	meters	
Setup for BMC Web Server		
LAN Port Settings		
Clear BMC Configuration		
Exit		
Select:[Enter] Help:[H/h]		

(3) Set "System Management Parameters" screen will be displayed. Select "Configuration".

Set System M	anagement Paramet	ers	
Configuration	on		-
Alert Test			
Return to p	revious menu		
Select:IEnt	er] Help:[H/h]		

(4) "Configuration" screen will be displayed. Select "New".



(5) "BMC Configuration" screen will be displayed. Select "Common".

Common		_	
LAN1			
LAN1(Alert)			
WAN/Direct			
WAN(Alert)			
ОК			
Cancel			
Select:[Enter]	Help:[H/h]		

(6) "Common" screen will be displayed.

Be sure to set the below item. The other items can be used with the default values.

- -- "Computer Name"
 - Enter a unique name for each managed server.
- -- "Authentication Key"

The following screen shows example.

Common	
*Management Information	
Model Name	[Express5800/R120b-1]
Comment 1	[]
Comment 2	[]
*BMC Common	
Computer Name	[host1]
Authentication Key	[*****]
Community Name	[mblic]
Alert	[Enable]
Alert Process	[One]
Alert Acknowledge	[Enable]
Alert Level	[Level4 (Level3 Alert plus OK)]
Remote Control(LAN1)	[Enable]
Remote Control(WAN/Direct)	[Enable]
Redirection(LAN)	[Enable]
Redirection(WAN/Direct)	[Enable]
Return to previous menu	
Select:[Enter] Help:[H/h]	

TIPS:
 If a managed server is compatible with SOL and "Enable" is selected for the item "Redirection (LAN)", the following items necessary for the remote console via the LAN will be changed automatically.
 "Common" screen - "Redirection (WAN/Direct)": Enable
 "WAN/Direct" screen - "Flow Control": RTS/CTS

(7) Select "LAN1" from "BMC Configuration" screen. Set the below items. The other items can be used with the default values.

-- "Obtain an IP Address automatically (DHCP)"

Determine whether to dynamically obtain an IP address from a DHCP server.

If the item is set enable and registered, the BMC set the value obtained from DHCP server on "IP Address", "Subnet Mask" and "Default Gateway".

You can set enable on the item only if the BMC supports this capability.

-- "IP Address"

Case that BMC on the managed component uses Management LAN port; enter the IP address for the Management LAN port.

Case that BMC on the managed component uses a standard LAN port; be sure to make the setting identical to the setting on the operating system of the managed component.

-- "Subnet Mask"

Enter the subnet mask for the IP address.

-- "Default Gateway"

Enter the default gateway if the managed component connects to NEC ESMPRO Manager Server via any gateway

The following screen shows example.

LAN1	
*Server	
Obtain an IP Address automatically(DHCP)	[Disable]
IP Address	[192.168.14.141]
Subnet Mask	[255.255.255.0]
Default Gateway	[0.0.0]
Return to previous menu	
*	
Select:[Enter] Help:[H/h]	

-- "Alert Receiver / Management PC(1)". Enter the IP address of management PC.

The following screen shows example.

LAN1(Alert)			
:			
*Alert Receiver/Management PC(1)			
Alert	[Enable]		
IP Address	[192.168.14.197]		
*Alert Receiver/Management PC(2)			
Alert	[Disable]		
IP Address	[0.0.0]		
*Alert Receiver/Management PC(3)			
Alert	[Disable]		
IP Address	[0.0.0.0]		
*Alert Retry			
Alert Retry count	[3(times)]		
Alert Timeout	[6(seconds)]		
Return to previous menu	-		
Select:LEnter] Help:LH/h]			

•	The "LAN2" in "BMC Configuration" screen is displayed only when the managed component's BMC supports communication via LAN2. To communicate with the NEC ESMPRO Manager via LAN2, make the setting on the "LAN2" and "LAN2(Alert)" as same as "LAN1" and "LAN1(Alert)".
СН	ECK:
•	Please set the following items for NEC ESMPRO Manager to receive alerts from the
	BMC.
	- LAN1 (Alert) / LAN2 (Alert) :
	- Alert Receiver / Management PC (1) :
	- Alert : Enable
	- Alert : Enable - IP Address :
	 Alert : Enable IP Address : IP address of the management PC on which NEC ESMPRO Manager is

(8) If you set "Default Gateway", please connect the managed component via LAN port used by BMC and the gateway to network.

If you set "Alert Receiver / Management PC IP Address" on same network with the managed component, please connect the managed component via LAN port used by BMC and the alert receiver/management PC to network.

(9) Select "Save BMC Configuration" from "BMC Configuration" screen.

The configuration information will be set in the BMC. The MAC addresses of the gateway and the alert receivers will be also set in the BMC.

2.3 Register a managed component on NEC ESMPRO Manager (for LAN connection)

To register the managed component on the NEC ESMPRO Manager, login to the NEC ESMPRO Manager and perform in the following order:

If necessary, see "1.3.2 Add component to Group" and add the group to which the managed component will belong.

2.3.1 Register the Managed Component

Use either of the two methods to register the managed component.

Manual Registration

This method requires the operator to directly enter the managed component's information such as the IP address of the BMC and to perform "Check Connection".

Auto Registration

This method automatically searches the network for managed components that are not registered yet on the NEC ESMPRO Manager, and registers the managed components.

2.3.1.1 Manual Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin -
🚯 Dashboard 🚓 Register 🔓 Component 🛕 AlertViewer 💥 Tools 👻	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Server / Storage" of "Manual Registration".

U.	B Decision - B O	Alfanza Mc Tarla -	ADOUT NEC ESMPRO Manager Help	Classic Mode	ad
bard	-🖺 Register 📾 Component 🛕 Aler	tViewer 💥 Tools 👻			
Au	to Registration Manual Registration	00			
8	Server / Storage Network Device	Other Computer Device Alert Only Management			
	Component Name [Required]				
	Alias				
	Destination Group	root			
	Common Setting				
	Common Setting				
	OS IP Address [Required]				
	SNMP (NEC ESMPRO Agent) / WS-Man	/ ESXi / iStorage			
	Management	Registration Unregistration			
	Management Type	 SNMP (NEC ESMPRO Agent, iStorage M series) WS-Man (NEC ESMPRO ServerAgentService, ESXi7 earlier) 			
		ESXI (ESXI8) DEST ADI (Estorado V agrico)			
		KESTAFT (Stolage V series)			
	SNMP Community Name(Get)	public			
	SNMP Community Name(Set)				
	RAID system (Universal RAID Utility)				
	Management	• Registration Unregistration			
	NEC ExpressUpdate				
	Updates via NEC ExpressUpdate Agent	• Registration O Unregistration			
	Updates via Management Controller	• Registration 🔿 Unregistration			
	"BMC (EXPRESSSCOPE Engine)"/"iLO"/	"BMC(Other)"/"vPro"(Common)			
	Management	• Registration 🔾 Unregistration			
	Management Type	BMC iLO BMC (Other) vPro			
	▲ "BMC(EXPRESSSCOPE Engine)" is ADE), BMC(ECO CENTER), BMC(many For cases other than the above and "iLt	target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL core server). 3° and "vPro", Please select "BMC (Other)".			
	Authentication Key [Required]				
	"BMC (EXPRESSSCOPE Engine)"/"iLO"/	"BMC(Other)"/"vPro"(LAN)			
	Current IP Address	IP Address 1 IP Address 2			
	Failover	• Enable Disable			
	IP Address 1 [Required]				
	IP Address 2				
		ADD			

(3) Input the following items:

Name	Value
Component Name	Specify the name of the managed component on NEC ESMPRO Manager.
	Assign a name different from other managed component names. Do not
	enter a name including blank characters. Uppercase characters are
	distinguished from lowercase characters.
Alias	Specify the information about the managed component. Do not enter a
	name including blank characters. Only blank characters cannot be entered.
	Also, please do not enter a name containing blank characters. The blank
	characters will be removed if there are half-width blank characters before
	or after the string. Uppercase characters are distinguished from lowercase
	characters. Optional.
Destination Group	Specify the group to which the managed component will belong. See "1.3.2
1	Add component to Group" for the information about creating group.
Common Setting	
OS IP Address	Specify the OS IP Address of the managed component.
SNMP (NEC ESMPRO	Agent) / WS-Man / ESXi / iStorage
Management	Select "Registration" to manage the system of the component.
Management Type	Select a management type of the managed component.
0 11	- SNMP *1
	NEC ESMPRO Agent is installed on the managed component.
	- WS-Man *1, *2
	VMware ESXi7 is installed on the managed component.
	NEC ESMPRO ServerAgentService is installed on the managed
	component.
	- ESXi*1, *2
	The operating system of the managed component is VMware ESXi8.
SNMP Community	SNMP Community Name which is specified at SNMP Agent running on
Name(Get)	the managed component.
	It is necessary to get the information, configure, monitor via SNMP
SNMP Community	When you want to set SNMP Community names for Get and Set separately
Name(Set)	on the managed component, specify the SNMP Community name for Set
	in this field by alphanumeric characters.
	If it is not specified, SNMP Community name for Get will be used.
User Name	Enter the Username/Password for communication with WS-Man or ESXi.
	- The operating system of the managed component is VMware ESXi.
Password	Enter Username/Password of VMware ESXi Administrator
Communication	This is displayed only when WS. Man is selected as the management target
Protocol	Salact protocol HTTD/HTTDS for connection WS Man service *2
11010001	Select protocol III II/III II S for connection w S-wan service. 2
	- NEC ESMPRO Server A gentService (Windows) is installed
	If you want to use HTTPS for WS-Man communication with
	$FSMPRO/Server \Delta gent Service refer to Chapter 2 Installation 3.3 HTTPS$
	Setting in the ESMPRO/ServerAgentService Installation Guide
	(Windows)
	(windows).
	- NEC ESMPRO ServerAgentService (Linux) is installed
	Select HTTPS
	- The operating system of the managed component is VMware ESXi7
	Select HTTPS.
Port Number	Enter port number where WS-Man service listens for connection. *3
	-
	- NEC ESMPRO ServerAgentService (Windows) is installed.

	If you want to use HTTP, enter 5985.
	If you want to use HTTPS, enter 5986.
	y
	- NEC ESMPRO ServerAgentService (Linux) is installed.
	Enter 5986.
	- The operating system of the managed component is VMware ESXi7.
	Enter 443.
RAID system managem	ent
Management	Select "Registration" to manage the RAID system of the component.
	- The operating system of the managed component is VMware ESXi7
	WS-Man management must be enabled in addition to this setting.
	-If the managed component is a VMware ESXi8 please select "
	Unregistration "
NEC ExpressUpdate	
Updates via NEC	Select "Registration" to manage the component using NEC ExpressUpdate.
ExpressUpdate Agent	
Updates via	Select "Registration" to manage the component using Management
Management Controller	Controller
"BMC (EXPRESSSCO	PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (Common)
Management	Select "Registration" otherwise NEC ESMPRO Manager may not monitor
	HW status.
Management Type	Select "BMC".
Authentication Key	Enter the "authentication key" that you set in "1.2 Configure BMC on
	Managed Component".
"BMC (EXPRESSSCO	PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN)
Current IP Address	If you set both "IP Address1" and "IP Address2", specify which IP address
	you want to use for connection.
Failover	This setting is valid only when both "IP Address1" and "IP Address2" are
	set. Determine whether to enable/disable the "Failover" feature.
IP Address 1	Enter the IP address that is specified on LAN1 of the BMC configuration
	for the managed component.
IP Address 2	Enter the IP address that is specified on LAN2 of the BMC configuration
	for the managed component.

 CHECK: *1 If NEC ESMPRO Manager is installed on Linux system, "SNMP" and VMware ESXi server management are not supported.
 CHECK: *2 If a self-signed certificate is installed on the managed server for HTTPS communication, a setting to allow it is required. Refer to "1.3.1 Environment setting" for detailed information.
CHECK:
• *3 On "Environment" - "Auto Registration Setting List" screen, you can manage a list of username/password and authentication key. All entries in the list are used for auto registration every time.
(4) Click "ADD".

If there is an error in the input content, correct the input content following the message.

ESMPRO		About NEC ESMPRO Manager	Help Classic Mode	🛓 admin 🕶
🕻 Dashboard 📲 Register 🚔 Component 🛕 Ale	ertViewer 🎉 Tools 👻			
Auto Registration Manual Registrat	ion			
Server / Storage Network Device	Other Computer Device Alert Only Management			
Component Name [Required]	BMC			
Alias				
Destination Group	root ¢			
SNMP (NEC ESMPRO Agent) / WS-Ma	in / ESXi / iStorage			
Management	Registration Unregistration			
RAID system (Universal RAID Utility)				
Management	Registration Unregistration			
NEC ExpressUpdate				
Updates via NEC ExpressUpdate Agent	Registration Unregistration			
Updates via Management Controller	Registration Unregistration			
"BMC (EXPRESSSCOPE Engine)"/"iLO"	/"BMC(0ther)"/"vPro"(Common)			
Management	Registration Unregistration			
▲ If BMC / iLO management is disal Please refer to the result page of conr	bled, NEC ESMPRO Manager cannot monitor HW errors of some servers. nection check.			
Management Type	• BMC iLO BMC (Other) vPro			
	s target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL core server). LO" and "vPro", Please select "BMC (Other)".			
Authentication Key [Required]				
"BMC (EXPRESSSCOPE Engine)"/"iLO"	/*BMC(0ther)*/*vPro*(LAN)			
Current IP Address	IP Address 1			
Failover	• Enable Oisable			
IP Address 1 [Required]	192 . 168 . 8 . 18			
IP Address 2				
	ADD			

(5) "CHECK CONNECTION" screen is displayed.

Click "CHECK CONNECTION" to start it.			
ESMPRO	About NEC ESMPRO Manager He	lp Classic Mode	💄 admin 🗝
🚯 Dashboard 📲 Register 🚔 Component 🛕 AlertViewer 💥 Tools 👻			
Auto Registration Manual Registration			
Server / Storage Network Device Other Computer Device Alert Only Management			
To remotely manage components, please continue to perform check connection.			
CHECK CONNECTION			

(6) If the "CHECK CONNECTION" is completed, "Connection check results" screen will be displayed.

ESMPRO						About NEC ESMPRO Manage	er Help	Classic Mode	💄 admin 🕶
🕼 Dashboard 🛛 🔒 Register 📾	Component	AlertViewer 🔀 Tools	•						
Auto Registration	Manual Regis	tration							
Server / Storage	Network Dev	ice Other Compute	er Device Alert Onl	y Managemo	ent				
			Conr	ection o	heck results				
		Management	Detected	Detail					
		BMC	Detected	SNMP Aler Engine). Se ware error anager's ao ngine) NEC	t configuration is not completed on titing up SNMP Alert configuration alert to NEC ESMPRO Manager. Ple Idress as 'Alert Receiver'. Using the ExpressUpdate function can be us	BMC (EXPRESSSCOPE is required to send hard ase set NEC ESMPRO M BMC (EXPRESSSCOPE E ed.			
			BACK TO COMPON	ENT LIST	CONTINUE REGISTERING	I			

Detected	Detail						
Detected	The feature was detected.						
	NEC ESMPRO Manager can use the feature to manage the component.						
Not Detected	The feature was not detected.						
	NEC ESMPRO Manager cannot use the feature to manage the component.						
	Click the "Name" of the component that could not be registered in						
	"Component List". The connection settings screen in Classic mode will be						
	displayed. Please check that there are no errors in the entered items. For more						
	details, please refer to the online help for NEC ESMPRO Manager.						

2.3.1.2 Auto Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin 🕶
🚯 Dashboard 🔁 Register 🚔 Component 🛕 AlertViewer 🛠 Tools 👻	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Server/Storage" of "Auto Registration".

	No	About NEC ESMPRO Manager Preip Classic Mode
Register 🛎 Component 🚹 Alert)	iewer 🛪 Tools *	
Registration Manual Registration	1	
Destination Group	root e	
Discovery Range		
Discovery Mode	IP Address Range Discovery Network Address Discovery	-
Start Address [Required]		
End Address [Required]		
		· ·
Server / Storage		
SNMP (NEC ESMPRO Agent, iStorage	M series)	
Discovery	• Enable 🔿 Disable	
SNMP Community Name [Required]	public	
WS-Man (NEC ESMPRO ServerAgentS	ervice, ESXi7 earlier)	
Discovery	• Enable O Disable	
Heer Name/Password Required		
are unusu assund [nedmed]	·	
ESXI (ESXIB)		
Discovery	Enable Disable	
User Name/Password [Required]	/ ADD	
REST API (iStorage V series)		
Discovery	• Enable O Disable	
User Name/Password [Required]	/ ADD	
RAID system (Universal RAID Utility)		
NEC ExpressUpdate (ExpressUpdate A	gent)	
Discovery	• Enable O Disable	
BMC(EXPRESSSCOPE Engine)		
Discovery	• Enable O Disable	
☆ "BMC(EXPRESSSCOPE Engine)" is ADE), BMC(ECO CENTER), BMC(many For cases other than the above and "it A. If BMC(EXPRESSSCOPE Engine) r ervers. Please refer to the result page	target for EXIPRESSECOPE Engine1/2/J/3ft/2SP/SP, EM Card(SIGMABL core serve). Or and VPro? prease select 'BMC (Other)'. amagement is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of auto registration.	5
NEC ExpressUpdate	Enable Disable	
Authentication Key [Required]	DOA	
iLO	C Fachle C Dirable	
Discovery	Chaule Disable	
▲ If iLO management is disabled, NI result page of auto registration.	C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th	
User Name/Password [Required]	/ ADD	
PMC (Other)		
Discovery	Enable Disable	
A If BMC(Other)man	bied NEC ESMODO Mananar concel masilos LIN according	te.
r to the result page of auto registration	ubee, neo camerko manager cannot montor ny enors or some servers. Prease re).	
Access Mode	• Auto Redfish IPMI	
☆ If "Auto" is selected as an access ods i.e. then refer "Priority access mo Network screen and selected access in	method and connection is established with both (IPMI and Redfish) the access met de at the time of automatic selection' option in Classic Mode's Environment-Setting nethod will get the priority for server registration process.	h s
User Name/Password [Required]	/ ADD	
Intel(R) vPro(TM) Technology		
Discovery	• Enable 🕜 Disable	
User Name/Password [Required]	/ ADD	
C New A Public		
Network Device		
Other Computer Device		
Other Computer Device		

(3) Input the following items:

Name	Value
Destination Group	Specify the group to which the managed component will belong
Discovery Range	speeny the group to which the managed component will belong.
Discovery Mode	With "IP Address Range Search" selected, the NEC ESMPRO Manager searches for the managed components using the IP address range. With "Network Address Search" selected, the NEC ESMPRO Manager searches for the managed components using the specified network
	address.
Start Address End Address	When you select "IP Address Range Search" for "Search Mode", specify the start IP address and end IP address of the range in which managed
	components are to be searched for.
Network Address Network Mask	When you select "Network Address Search" for "Search Mode", specify the network address and network mask of the managed component to be
	searched for.
SNMP (NEC ESMPRO	Agent, iStorage M series)
Discovery	Select "Enable" to manage the system of the component.*1
SNMP Community	SNMP Community Name which is specified at SNMP Agent running on
Inallie	It is necessary to get the information configure monitor via SNMP
WS-Man(NEC ESMPR	O ServerAgentService, ESXi7)
Discovery	Select "Enable" to manage VMware ESXi server of the component *1 *2
User Name/Password	Enter username and password for WS-Man communication. The account
	must be a system administrator of the managed operating system. Click "Add" button and you can add a pair of username and password up to 5. *3 - The operating system of the managed component is VMware ESXi. Enter Username/Password of VMware ESXi Administrator
ESXi (ESXi8)	
Discovery	Select "Enable" to manage ESXi (ESXi8) of the component *1 *2
User Name/Password	Enter username and password for ESXi (ESXi8) communication. The account must be a system administrator of the managed operating system. Click "Add" button and you can add a pair of username and password up to 5. *3 Enter Username/Password of VMware ESXi Administrator
REST API(iStorage V set	eries)
Discovery	Select "Disable".
RAID system managem	ent
Management	 Select "Enable" to manage the RAID system of the component. The operating system of the managed component is VMware ESXi7. WS-Man management must be enabled in addition to this setting. If the managed component is a VMware ESXi8, please select "Unregistration ".
NEC ExpressUpdate	
Updates via NEC ExpressUpdate Agent	Select "Enable" to manage the component using NEC ExpressUpdate.
BMC (EXPRESSSCOP	E Engine)
Discovery	Select "Enable" otherwise NEC ESMPRO Manager may not monitor HW status.
FeaturesNECExpressUpdate	Select "Enable" to feature NEC ExpressUpdate.
Authentication Key	Enter the "authentication key" that you set in "1.2 Configure BMC on

	Managed Component". *3								
iLO	iLO								
Discovery	When you discover components which have BMC excluding								
	EXPRESSSCOPE Engine3, this item should be "Disable".								
BMC (Other)	BMC (Other)								
Discovery	When you discover components which have BMC excluding								
	EXPRESSSCOPE Engine3, this item should be "Disable".								
Intel(R) vPro(TM) Technology									
Discovery	When you discover components which have BMC excluding								
	EXPRESSSCOPE Engine3, this item should be "Disable".								

 CHECK: *1 If NEC ESMPRO Manager is installed on Linux system, "SNMP" and VMware ESXi management are not supported.
CHECK:
• *2 If a self-signed certificate is installed on the managed server for HTTPS communication, a setting to allow it is required. Refer to "1.3.1 Environment setting" for detailed information.
CHECK:
 *3 On "Settings" - "Environment" - "Auto Registration Setting List" screen, you can manage a list of username/password and authentication key. All entries in the list are used for auto registration every time.

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(4) Click "RUN DISCOVERY".

		About NEC ESMPRO Manager Help Cla	issic Mode 💄
🖁 Register 📾 Component 🛕 Alert	Wiewer 🎇 Tools -		
o Registration Manual Registratio	n		
Destination Group	root 🗢		
Discovery Range			
Discovery Mode	• IP Address Range Discovery O Network Address Discovery		
Start Address [Required]	192 . 168 . 8 . 18		
End Address [Required]	192 168 8 18		
Server / Storage			
SNMP (NEC ESMPRO Agent, iStorage	M series)		
Discovery	C Enable O Disable		
WS-Man (NEC ESMPRO ServerAgentS	Service, ESXi7 earlier)		
Discovery	C Enable O Disable		
ESXi (ESXi8)			
Discovery	C Enable O Disable		
REST API (iStorage V series)			
Discovery	C Enable • Disable		
RAID system (Universal RAID Utility)			
Discovery	Enable Disable		
NEC ExpressUpdate (ExpressUpdate	Agent)		
Discovery	C Enable O Disable		
BMC(EXPRESSSCOPE Engine)			
Discovery	Enable Disable		
[▲] "BMC(EXPRESSSCOPE Engine)" if ADE), BMC(ECO CENTER), BMC(man For cases other than the above and "i [▲] If BMC(EXPRESSSCOPE Engine) ervers. Please refer to the result page	is target for EXPRESSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL y core server). ILO" and "vPro", Please select "BMC (Other)". management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some : e of auto registration.	i -	
NEC ExpressUpdate	• Enable O Disable		
Authentication Key [Required]	ADD		
iLO			
Discovery	C Enable O Disable		
BMC (Other)			
Discovery	C Enable O Disable		
Intel(R) vPro(TM) Technology			
Discovery	C Enable O Disable		
Network Device			
Network Device Other Computer Device			

CHECK:

When you click the "RUN DISCOVERY", you may see a message "The search cannot be started. ". If you have enabled "WS-Man Discovery", please check whether a "Self Signed Certificate" is allowed in section "Chapter2 Environment setting".

When you click the "RUN DISCOVERY", the discovery for components will begin and the "Auto Registration in Progress" screen will be displayed.

ESM	PRO			About NEC ESMPRO Mana	ger Help Classic Mode	💄 admin 🗝
🕼 Da	shboard -🎦 Register 📾 Co	mponent 🛕 AlertViewer 💥 Tools 🔻				
	Auto Registration	Manual Registration	Auto Registration in Progra	ess		
		Discovery Mode	IP Address Range Discovery			
		Start Address	192.168.8.18			
		End Address	192.168.8.18			
		& Even if swit	CANCEL	opening this screen again.		

(5) If the "Auto Registration" is completed, following message will be displayed. Click "OK".



- (6) The components registered will be displayed on "Auto Registration Results".
 - Clicking the "Name" will open the Classic mode where you can confirm the registered information.

ESMPRO			About NEC ESM	IPRO Manager Help Classic Mode	🛔 admin 🕶
🕼 Dashboard 📲 Register 📾 Component 🛕 AlertViewe	🗶 Tools -				
Auto Registration Manual Registration					
		Auto Registration Results			
Entry Count:1item(s)					
Name IP Address	Management LAN IP Address 1	Management LAN IP Address 2	Install NEC ExpressUpdate Agent	Contents	
ManagementController	192.168.8.18		ExpressUpdate (BMC Controller) Enable	The component was added.	
	BACK TO	COMPONENT LIST CONTINUE RE	GUSTERING		

Name	Description
Name	Component name
IP address	IP address
Management LAN IP Address 1	IP address of BMC (EXPRESSSCOPE Engine)/iLO/BMC
	(Other)/vPro
Management LAN IP Address 2	IP address of BMC (EXPRESSSCOPE Engine)(device support
	LAN port2)
Install NEC ExpressUpdate Agent	ExpressUpdate is enable
	When "NEC ExpressUpdate(ExpressUpdate Agent)" is
	enabled, and a component that can be installed with
	ExpressUpdate Agent is discovered.
	• ExpressUpdate is disable
	- "NEC ExpressUpdate(ExpressUpdate Agent)" is disable
	- "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled,
	but there is not component that can be installed with
	ExpressUpdate Agent.
Contents	• A component has been added.
	This message will be displayed if the component is
	successfully registered.
	• Management Controller management cannot be used.
	Hardware monitoring function is unavailable.
	This message will be displayed when BMC
	(EXPRESSSCOPE engine)/1LO/BMC (other)/vPro cannot
	address. If you want to register the Management Controller
	management function click the "Name" The connection
	settings screen in Classic mode will be displayed so you
	can perform the registration here.
	settings screen in Classic mode will be displayed, so you can perform the registration here.

TIPS:

When the system management cannot discover the managed component name, the
 "Name" of "Component List" will be "ManagementController".
 The following components will be named "ManagementController + number". If you
 want to change the name, click on the "Name" in the "Component List" to launch
 Classic mode, and then click "Setting" -> "Connection Setting" ->"Edit" to change
 component name.

2.3.1.3 Auto Registration Setting

Before executing auto registration, User Name/Password and Authentication Key can be registered up to 5. For more details, please refer to "1.3.3.3 Auto Registration Setting".

Chapter3 Setup for Managed Component in which iLO is integrated

This chapter explains the setup procedure for the NEC ESMPRO Manager to manage the iLO component.

3.1 Setup Flow

Setup by the following setup procedure:

- (1) Connect the management PC on which NEC ESMPRO Manager is installed and the managed component on the same network.
- (2) Configure iLO on the managed component.
- (3) Register the managed component on NEC ESMPRO Manager.

3.2 Configure iLO on Managed Component

3.2.1 SNMP Settings

This section explains about the setup procedure for NEC ESMPRO Manager to receive SNMP alerts from iLO.

CHECK:

- Because this section uses iLO WebConsole, you need to set the network of iLO beforehand. Please see the user's guide of the managed component about the network setting of iLO.
- (1) After starting a web browser on the management PC, input URL as below.

In the case that the IP address of iLO is 192.168.1.1 and the setting of HTTPS is enable. https://192.168.1.1/

(2) A login screen of iLO will be displayed.

After login to the iLO, Select "Management" - "SNMP Settings" at the WebConsole menu. The following screen shows example.

NEC ilo 5 × 1.10 Jun 07 2017	Management - SNMP Settings 🏾 🍅 🧿 🥑	Å ?	
Information	SNMP Settings AlertMail Remote Syslog		
System Information			
Firmware & OS Software		^	1
iLO Federation	SNMP Settings		
Remote Console & Media	System Location		
Power & Thermal			
iLO Dedicated Network Port	System Contact		
iLO Shared Network Port			
Administration	System Role		
Security			
Management	System Role Detail		
EXPRESSBUILDER	Read Community		

(3) Set IP address of the management PC on which NEC ESMPRO Manager is installed in the following order.

-- If iLO5 firmware version is less than 1.20, set a following value and select "Apply" button.

"SNMP Alert Destination(s)" : IP address of the management PC on which NEC ESMPRO Manager is installed.

The following screen shows example.

NEC iLO 5 ×	Management - SNMP Settings 🍵 🧿 🥑 船 ?
Information	SNMP Settings AlertMail Remote Syslog
System Information	
Firmware & OS Software	^
iLO Federation	
Remote Console & Media	
Power & Thermal	SNMP Alert Destination(s)
iLO Dedicated Network Port	192.168.1.100
iLO Shared Network Port	
Administration	
Security	
Management	
EXPRESSBUILDER	SNMP Port 161
	Apply

-- If iLO5 firmware version is 1.20 or later, select "New" button of "SNMP Alert Destinations". And set a following value and select "Add" button.

"SNMP Alert $\ensuremath{\mathsf{Destination}}(s)$ " : IP address of the management PC on which NEC ESMPRO Manager is installed.

The following screen shows example.



3.2.2 NEC SSO Settings

This section explains about the setup procedure for NEC ESMPRO Manager to login iLO WebConsole with Single Sign-On.

Regarding Single Sign-On settings of iLO, the following trust mode is supported.

Single Sign-On Trust Mode options

- Trust None (SSO disabled) (default) —Rejects all SSO connection requests.
- Trust by Certificate (most secure)—Enables SSO connections from an NEC SSO-compliant application by matching a certificate previously imported to iLO.
- Trust by Name—Enables SSO connections from an NEC SSO-compliant application by matching a directly imported IP address or DNS name.
- Trust All (least secure)—Accepts any SSO connection initiated from any NEC SSO-compliant application.

In order to enable NEC SSO feature, the different procedure is required for each mode. Refer to below.

СНЕСК:

- If "Trust None" is configured, when you click "Login to iLO" on NEC ESMPRO Manager, you only browses iLO Top page and login step is required.
- Because this section uses iLO WebConsole, you need to set the network of iLO beforehand. Please see the user's guide of the managed component about the network setting of iLO.

3.2.2.1 The procedure for Trust by Certificate

(1) When you configure "Trust by Certificate" mode, it is necessary to install certificate. Suppose the following for each options when generating it.

Options	Description	Sample for settings
alias	Alias specifies key or Certificate entries	esmpro_ilosso
	stored in keystore file.	
storepass	Password to access keystore.	secret
validity	Validity of the certificate. The unit is 'day'.	365
keystore	Location of keystore. C:¥Users¥Administrator¥.keystore	

(2) Open command prompt on the management PC and change directory as follows: <NEC ESMPRO Manager install folder>¥ESMWEB¥java¥r1¥bin

Exa	ample)
	cd C:\Program Files\ESMPRO\ESMWEB\java\r1\bin

(3) Execute following command to generate a key.

keytool -genkeypair -keysize 2048 -keyalg RSA -sigalg SHA384withRSA -alias {alias value in step(1)} -storepass {storepass value in step(1)} -validity {validity value in step(1)} -keystore {key store value in step (1)}

Example)

keytool -genkeypair -keysize 2048 -keyalg RSA -sigalg SHA384withRSA -alias esmpro ilosso -storepass secret -validity 365 -keystore C:¥Users¥Administrator¥.keystore (4) After command in step (3), some inputs are required as follows:



(*1) You can enter host name or IP address for "first and last name".

(*2) Press Enter in order to enter same password as keystore password.

- (5) Confirm if keystore is generated in location of step (1).
- (6) In order to convert a keystore to PEM format, execute the following command. If password is required, input storepass value in step (1).

keytool -exportcert -keystore {keystore value in step(1)} -alias {alias value in step(1)} -rfc > {location of output file}

Example)

keytool -exportcert -keystore C:¥Users¥Administrator¥.keystore -alias esmpro ilosso rfc > C:¥Users¥Administrator¥test.pem

(7) Confirm if Certificate in PEM format is generated in location of step (6).

Example of PEM data)

```
Example of PEM data)
```

(8) Open "ilosso.properties" in the following location with text editor on the management PC.

Location of "ilosso.properties": <NEC ESMPRO Manager install folder>¥ESMWEB¥wbserver¥webapps¥esmpro¥WEB-INF ¥service¥iLOSSO

CHECK:

• When you open "ilosso.properties" with text editor, select UTF-8 encoding without BOM.

(9) Update the value of the following properites.

Property Name	Value	Sample for property
ALIAS_NAME	"alias" in step (1)	esmpro_ilosso
KEYSTORE_PATH	"location" of keystore in step (1). File separator must be "/" or "¥¥".	-In case that file separator is "¥¥": C:¥¥Users¥¥Administrator¥¥.keystore -In case that file separator is "/": C:/Users/Administrator/.keystore
PASSWORD	"storepass" in step (1).	secret

Example)

	HOST NAME:
1	ALIAS NAME=esmpro ilosso
I	KEYSTORE_PATH=C:¥¥Users¥¥Administrator¥¥.keystore
	PASSWORD=secret

(10) Restart the management PC.

CHECK:

• After NEC ESMPRO Manager restarting, Value of PASSWORD is encrypted and saved as ENCRYPTED_PASSSWORD automatically and then is removed.

(11) Start a web browser on the management PC and input URL as below.

In the case that the IP address of iLO is 192.168.1.1 and the setting of HTTPS is enable. https://192.168.1.1/ (12) After login to iLO, Select "Security" - "NEC SSO" at the WebConsole menu. The following screen shows example.



(13) Select "Trust by Certificate" as SSO Trust Mode and click "Apply" button. Then click "Import" button in "Manage Trusted Certificates and Records" to install the trusted certificate.



(14) Copy text of Certificate(*1) generated in step (7) and paste it in text field. Then Click "Apply" button.



*1: You must copy and paste all text including "-----BEGIN CERTIFICATE-----" and "-----END CERTIFICATE-----".

(15) Confirm if Certificate is added in "Manage Trusted Certificates and Records" field on NEC SSO settings.



3.2.2.2 The procedure for Trust by Name

(1) Open "ilosso.properties" in the following location with text editor on the management PC.

Location of "ilosso.properties":

<NEC ESMPRO Manager install folder>¥ESMWEB¥wbserver¥webapps¥esmpro¥WEB-INF ¥service¥iLOSSO

CHECK:
When you open "ilosso.properties" with text editor, select UTF-8 encoding without BOM.

(2) Configure IP address or Domain Name of the management PC for "HOST_NAME" property and save properties file.

Example)

- (3) Restart the management PC.
- (4) Execute step (11) and (12) in 3.2.2.1.
- (5) Select "Trust by name" as SSO Trust Mode and click "Apply" button. Then click "Import" button in "Manage Trusted Certificates and Records".



(6) Configure the value saved as "HOST_NAME" in step (2) in text field of "Import Direct DNS Name" and click "Apply" button.

NEC $^{\mathrm{iLO}5}_{\mathrm{1.30May232018}}$ $ imes$	Security - Single Sign-On Settings 🍅 🧿 🌐	⊘ & ?
Information	Access Settings iLO Service Port Secure Shell Key SSL Certificate Directory Encryption	NEC SSO
System Information	Login Security Banner	
Firmware & OS Software iLO Federation	pasie nie pasies-encoded viona cernicale data uele	
Remote Console & Media		
Power & Thermal		
iLO Dedicated Network Port		
iLO Shared Network Port	Apply	
Administration	Import From LIPI	
Security		
Management EXPRESSBUILDER	Certificate URL	
	Арріу	
	Import Direct DNS Name	
	DNS name or IP address 192.168.1.2	
	Apply	

(7) Confirm if name set in step (6) is added in "Manage Trusted Certificates and Records" field on NEC SSO settings.

NEC $^{\mathrm{iL05}}_{\mathrm{1.30May232018}}$ $ imes$	Security - Single Sign-On Settings 🍈 📀 🌐	S A ?
Information	Access Settings iLO Service Port Secure Shell Key SSL Certificate Directory Encrys	otion NEC SSO
System Information	Login Security Banner	
Firmware & OS Software		
iLO Federation	Single Sign-On Settings Manage Trusted Certificates	and Records
Remote Console & Media	SSO Trust Mode	Description
Power & Thermal	Trust by name	Description
Intelligent System Tuning		192.168.1.2
iLO Dedicated Network Port	n ^{ot} /	
iLO Shared Network Port	b statut stillestr	🕂 Import
Administration	USE OPE ADT	
Security	🗹 🗹 🔁 Login	
Management	Remote Console	
EXPRESSBUILDER	Virtual Power and Reset	
	$\square \square $	

3.2.2.3 The procedure for Trust by All

- (1) Execute step (11) and (12) in 3.2.2.1.
- (2) Select "Trust by All" as SSO Trust Mode and click "Apply" button.

NEC iLO 5 × 1.30 May 23 2018	Security - Single Sign-On Settings 🛛 🕚 💮 🌐 🥥 🤱 ?
Information	Access Settings iLO Service Port Secure Shell Key SSL Certificate Directory Encryption NEC SSO
System Information Firmware & OS Software	Login Security Banner
iLO Federation	Single Sign-On Settings Manage Trusted Certificates and Records
Remote Console & Media Power & Thermal	SSO Trust Mode Trust All
Intelligent System Tuning	
iLO Shared Network Port	a satisfication
Administration Security	J ^{ef} o ^g γ ^D ▼ ▼ → Login
Management EXPRESSBUILDER	Image: Construction of the construc
	Image: Configure iLO Settings Image: Configure iLO Settings </th
	Apply

3.3 Register a managed component on NEC ESMPRO Manager

To register the managed component on the NEC ESMPRO Manager, login to the NEC ESMPRO Manager and perform steps in the following order:

If necessary, see "1.3.2 Add component to Group" and add the group to which the managed component will belong.

3.3.1 Environment setting

If NEC ESMPRO Manager manages components in which iLO is integrated, in following cases, "Self-Signed Certification" should be accepted by NEC ESMPRO Manager in "Environment Setting". Otherwise NEC ESMPRO Manager cannot manage components in which iLO is integrated.

- NEC ESMPRO Manager communicates with iLO by HTTPS and using "Self-Signed Certificate".

- CHECK:
 - The communication protocol used between NEC ESMPRO Manager and iLO is HTTPS by default.

The communication protocol can be changed by Communication Protocol settings of "Communication with iLO"at "Environment Setting"- "Network".

(1) Click "Environment" from "Settings" menu.

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin -
🕼 Dashboard 📲 Register 🚔 Component 🛕 AlertViewer 💥 Tools 👻 🗢 Settings 🔹	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click "Network" and click "Edit".

SMPRO			About NEC ESMPRO Manager Help Classic Mode	idmin •
Dashboard 👌 Register 🛲	🛦 Component 🛕 AlertViewer 💥 Tools 🕶	Settings *		
User Accounts	Access Control Network Option	Auto Registration Setting		
SNMP/ICMP	Communication			
Packet Re	esend Count	3 number of times		
No-respo	nse Timeout 1	4 seconds		
No-respo	nse Timeout 2	4 seconds		
No-respo	nse Timeout 3	4 seconds		
No-respo	nse Timeout 4	4 seconds		
Communicati	on with Remote Console/Remote Drive			
No-respo	nse Timeout	60 seconds		
Communicati	on with BMC			
IPMI no r	esponse detection timer value	5 seconds		
Comman	d Send Retry Count	5 number of times		
Send Sou	irce Port	47117		
Priority an	ccess mode at the time of automatic selection	Redfish		
Redfish n	o response detection timer value	20 seconds		
Self Sign	ed Certificate	Not Allowed		
Direct Connec	ction Setting			
Port Num	iber	Serial Port 1		
WS-Man Com	munication / ESXi			
Self Sign	ed Certificate	Allow		
Communicati	on with iLO			
No-respo	nse Timeout	20 seconds		
Comman	d Send Retry Count	0 number of times		
Communi	ication Protocol for Auto Registration	HTTPS		
Self Sign	ed Certificate	EDIT		

(3) Set "Self Signed Certificate" of "Communication with iLO" to "Allow".

When using ESXi or WS-Man communication in the following environment, "Self-signature proof" of "WS-Man Communication / ESXi"

Set it to "Allow".

- If the managed is a VMware ESXi server.
- When the management side is configured to use HTTPS for communication between NEC ESMPRO ServerAgentService and NEC ESMPRO Manager, and when using self-signing

Edit N	letwork Settings		×
	SNMP/ICMP Communication		
	Packet Resend Count	3 ¢ number of times	
	No-response Timeout 1 (1 - 65535 seconds) [Required]	4 seconds	
	No-response Timeout 2 (1 - 65535 seconds) [Required]	4 seconds	
	No-response Timeout 3 (1 - 65535 seconds) [Required]	4 seconds	
	No-response Timeout 4 (1 - 65535 seconds) [Required]	4 seconds	
	Communication with Remote Console/Remote Drive		
	No-response Timeout (20 - 1800 seconds) [Required]	60 seconds	
	Communication with BMC		
	IPMI no response detection timer value (1 - 15 seconds) [Required]	5 seconds	
	Command Send Retry Count (0 - 10 number of times) [Required]	5 number of times	
	Send Source Port (1025 - 65535) [Required]	47117	
	Priority access mode at the time of automatic selection [Required]	• Redfish 🔿 IPMI	
	Redfish no response detection timer value (1 - 30 seconds) [Required]	20 seconds	
	Self Signed Certificate	Allow Not Allowed	
	Direct Connection Setting		
	Port Number	Serial Port 1 \$	
	WS-Man Communication / ESXi		
	Self Signed Certificate	O Allow () Not Allowed	
	Communication with iLO		
	No-response Timeout (1 - 30 seconds) [Required]	20 seconds	
	Command Send Retry Count (0 - 10 number of times) [Required]	0 number of times	
	Communication Protocol for Auto Registration	• HTTPS O HTTP	
	Self Signed Certificate	Allow O Not Allowed	
		CANCEL DEFAULT AF	PPLY

3.3.2 Register the Managed Component

Use either of following two methods to register the managed component.

Manual Registration

This method requires the operator to directly enter the managed component's information such as the IP address of iLO and to perform "Check Connection".

Auto Registration

This method automatically searches the network for managed components and iLO that are not registered yet on the NEC ESMPRO Manager and registers them.

3.3.2.1 Manual Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin 👻
Component 🛦 AlertViewer 🏌 Tools -	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Server / Storage" of "Manual Registration".

ESMPRO			About NEC ESMPRO Manager	Help Classic Mode	🛔 admin ▾
Cashboard	🖞 Register 🚔 Component 🛕 Aler	tViewer 🎇 Tools 👻			
Aut	to Registration Manual Registration				
	erver / Storage Network Device	Other Computer Device Alert Only Management			
	Component Name [Required]				
	Alias				
	Destination Group	root +			
	Common Setting				
	OS IP Address [Required]				
	SNMP (NEC ESMPRO Agent) / WS-Man	/ ESXi / iStorage			
	Management	• Registration 🔿 Unregistration			
	Management Type	SNMP (NEC ESMPRO Agent, iStorage M series) WS-Man (NEC ESMPRO ServerAgentService, ESXi7 earlier) ESXi (ESXi8) REST API (iStorage V series)			
	SNMP Community Name(Get)	public			
	SNMP Community Name(Set)				
	RAID system (Universal RAID Utility)				
	Management	• Registration O Unregistration			
	NEC ExpressUpdate				
	Updates via NEC ExpressUpdate Agent	• Registration Unregistration			
	Updates via Management Controller	• Registration 🔘 Unregistration			
	"BMC (EXPRESSSCOPE Engine)"/"iLO"/	'BMC(Other)"/"vPro"(Common)			
	Management	• Registration O Unregistration			
	Management Type	BMC ILO BMC (Other) VPro			
	▲ "BMC(EXPRESSSCOPE Engine)" is ADE), BMC(ECO CENTER), BMC(many For cases other than the above and "iLe	target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL core server). 3° and "vPro", Please select "BMC (Other)".			
	Authentication Key [Required]				
	"BMC (EXPRESSSCOPE Engine)"/"iL0"/	'BMC(Other)"/"vPro"(LAN)			
	Current IP Address	• IP Address 1 IP Address 2			
	Failover	Enable Disable			
	IP Address 1 [Required]				
	IP Address 2				
		ADD			

(3) Input the following items.

Name	Value
Component Name	Specify the name of the managed component on NEC ESMPRO Manager.
	Assign a name different from other managed component names. Do not
	enter a name including blank characters. Uppercase characters are
	distinguished from lowercase characters.
Alias	Specify the information about the managed component. Do not enter a
	name including blank characters. Only blank characters cannot be entered.
	Also, please do not enter a name containing blank characters. The blank
	characters will be removed if there are half-width blank characters before
	or after the string. Uppercase characters are distinguished from lowercase
	characters. Optional.
Destination Group	Specify the group to which the managed component will belong. See "1.3.2
1	Add component to Group" for the information about creating group.
Common Setting	
OS IP Address	Specify the OS IP Address of the managed component.
SNMP (NEC ESMPRO	Agent) / WS-Man / ESXi / iStorage
Management	Select "Registration" to manage the system of the component.
Management Type	Select a management type of the managed component.
5 51	- SNMP *1
	NEC ESMPRO Agent is installed on the managed component.
	- WS-Man *1. *2
	VMware ESXi7 is installed on the managed component.
	NEC ESMPRO ServerAgentService is installed on the managed
	component.
	- ESXi *1. *2
	The operating system of the managed component is VMware ESXi8.
User Name	Enter the user name and password for communication with WS-Man or
	ESXi.
	- NEC ESMPRO ServerAgentService (Windows) is installed.
	Enter Username(Local User Accounts)/Password of Windows system
	Administrator
Password	
	- NEC ESMPRO ServerAgentService (Linux) is installed.
	Enter root/Password of Linux operating system
	- The operating system of the managed component is VMware ESXi.
	Enter Username/Password of VMware ESXi Administrator
Communication	This is displayed only when WS-Man is selected as the management target.
Protocol	Select protocol HTTP/HTTPS for connection WS-Man service.
	- NEC ESMPRO ServerAgentService (Windows) is installed.
	If you want to use HTTPS for WS-Man communication with
	ESMPRO/ServerAgentService, refer to Chapter 2, Installation 3.3 HTTPS
	Setting in the ESMPRO/ServerAgentService Installation Guide
	(Windows).
	- NEC ESMPRO ServerAgentService (Linux) is installed.
	Select HTTPS.
	- The operating system of the managed component is VMware ESXi7.
	Select HTTPS.
Port Number	Enter port number where WS-Man service listens for connection. *2

	 NEC ESMPRO ServerAgentService (Windows) is installed. If you want to use HTTP, enter 5985. If you want to use HTTPS, enter 5986. NEC ESMPRO ServerAgentService (Linux) is installed. Enter 5986. The operating system of the managed component is VMware ESXi7. Enter 443. 	
RAID system managem	ent	
Management	If the managed component is NEC ESMPRO ServerAgentService, Select "Unregistration". If the operating system of the managed component is VMware ESXi7, refer to "10.3.2.1 Manual Registration". If the managed component is a VMware ESXi8, please select " Unregistration ".	
NEC ExpressUpdate		
Updates via NEC ExpressUpdate Agent	Select "Unregistration". The managed component in which iLO is integrated does not support updating via NEC ExpressUpdate Agent.	
Updates via Management Controller	Select "Unregistration". The managed component in which iLO is integrated does not support updating via Management Controller.	
"BMC (EXPRESSSCO	PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (Common)	
Management	Select "Registration"	
Management Type	Select "iLO".	
User Name	Enter the user name and password for communication with the iLO. *3	
Password	1	
Communication Protocol	Select protocol used by communication with iLO.	
Port Number	Select port number used by communication with iLO. *4	
"BMC (EXPRESSSCO	PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN)	
IP Address 1	Enter the IP address of iLO.	

CHECK:

• *1 If a self-signed certificate is installed on the managed server for HTTPS communication, a setting to allow it is required. Refer to "1.1 Setup Flow" for detailed information.
CHECK:
• *2 Regarding a port number for WS-Man communication, refer to "Appendix C. Port number for WS-Man communication".
CHECK:
 *3 Set a user name and a password of following user account. Please refer to "iLO5 user's guide" or "iLO6 user's guide" for details about a user account of iLO. Administrator of the default user Additional user with all user privileges.
If a user account of other than the above is used, there is a possibility that you can't use some function for managing iLO.
······
CHECK:
• *4 Set the port number of iLO Web Server. The default value of iLO Web Server is

80 for HTTP or 443 for HTTPS. If the default value is changed, you need to set the	
port number after the change. Please refer to "iLO5 user's guide" or "iLO6 user's	
guide" for details.	
IMPORTANT:	
 If iLO management is disabled, NEC ESMPRO Manager may not be able to monitor 	

HW status. Detailed information is shown in the connection check result screen.

(4) Click "ADD".

shboard - 🖞 Register 📾 Com	ponent 🛦 AlertViewer 💥 Tools 🕶	
Auto Registration M	anual Registration	
Server / Storage N	etwork Device Other Computer Device Alert Only Management	
Component Name [Re	iquired] iLO	
Alias		
Destination Group	root +	
SNMP (NEC ESMPRO	Agent) / WS-Man / ESXi / iStorage	
Management	Registration Unregistration	
RAID system (Univers	al RAID Utility)	
Management	Registration O Unregistration	
NEC ExpressUpdate		
Updates via NEC Expr Agent	essUpdate O Registration • Unregistration	
BMC (EXPRESSSCOP	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common)	
Management	• Registration 🔿 Unregistration	
▲ If BMC / iLO man Please refer to the re-	agement is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. sult page of connection check.	
Management Type	O BMC O iLO O BMC (Other) O vPro	
▲ "BMC(EXPRESSS ADE), BMC(ECO CEN For cases other than	COPE Engine)" is target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL TER), BMC(many core server). he above and "LO" and "vPro", Please select "BMC (Other)".	
User Name/Password	[Required] Administrator / ······	
Communication Prote	col O HTTP O HTTPS	
Port Number [Require	d] 443	
BMC (EXPRESSSCO	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(LAN)	
IP Address 1 [Require	d] 192 . 168 . 8 . 28	

(5) "CHECK CONNECTION" screen is displayed.

Click "CHECK CONNECTION" to collect the managed component information for the management.

ESMPRO	About NEC ESMPRO Manager	Help Classic Mode	💄 admin 🗸
🕼 Dashboard 🖞 Register 🚔 Component 🛕 AlertViewer 🛠 Tools 👻			
Auto Registration Manual Registration Server / Storage Network Device Other Computer Device Alert Only Management			
To remotely manage components, please continue to perform check connection.			

(6) If the "CHECK CONNECTION" is completed, "Connection check results" screen will be displayed.

ESM	PRO			About NEC ESMPRO Manager Help Classic Mode 🛓 admin -	
🖨 Das	hboard 📲 Register 📾 Component ,	🛦 AlertViewer 💥 Tools -			_
	Auto Registration Manual Reg	gistration			
	Server / Storage Network D	evice Other Computer D	evice Alert Only Management		
			Connection check results	;	
		Management	Detected Detail		
		iLO	Detected iLO can be used.		
			BACK TO COMPONENT LIST CONTINUE RE	EGISTERING	

Detected	Detail	
Detected	The feature was detected.	
	NEC ESMPRO Manager can use the feature to manage the component.	
Not Detected	The feature was not detected.	
	NEC ESMPRO Manager cannot use the feature to manage the component.	
	Check parameters corresponding to the feature.	

3.3.2.2 Auto Registration

(1) Click "Register".

About NEC ESMPRO Manager Help Classic Mode 🛓 admin 🗸				
🕼 Dashboard 🕂 Register 🛋 Component 🛕 AlertViewer 💥 Tools 👻				
Component Status	Alert Status			
The component is not registered.	No alerts are unread.			

(2) Click the "Server / Storage" of "Auto Registration".

Register Component A Alert	/iewer 🎇 Tools *			
Registration fanual Registration	11			
Destination Group	root	٥		
Discovery Range				
Discovery Mode	O IP Address Range Discove	ry 🔿 Network Address Discovery		
Start Address [Required]				
End Address [Required]				
Server / Storage				
SNMP (NEC ESMPRO Agent, iStorage	M series)			
Discovery	O Enable O Disable			
SNMP Community Name [Required]	public			
WS-Man (NEC ESMPRO ServerAgentS	ervice, ESXi7 earlier)			
Discovery	O Enable 🔘 Disable			
User Name/Password [Required]	1	ADD		
ESXI (ESXIB)				
Discovery	• Enable 🔘 Disable			
User Name/Password Required		ADD		
DEPT ADI (Planes V	· · · · · ·			
Discovery	O Enable O Disable			
User Name/Password [Required]	1	ADD		
RAID system (Universal RAID Utility)				
Discovery	• Enable O Disable			
NEC ExpressUpdate (ExpressUpdate /	sgent)			
Discovery PMC(EVDBESSSCOPE English)	• Enable U Disable			
Discovery	• Enable O Disable			
ADE), BMC(ECO CENTER), BMC(many For cases other than the above and 'li	core server). .0° and "vPro", Please select "BN management is disabled, NEC ES of auto registration.	IC (Other)*. MPRO Manager cannot monitor HW error	s of some s	
NEC ExpressUpdate	C Enable Disable			
Authentication Key [Required]		DDA		
iLO				
Discovery	• Enable O Disable			
	EC ESMPRO Manager cannot mo	nitor HW errors of some servers. Please r	efer to the	
User Name/Password Required	7	DOA		
DMC (Other)				
Discovery	• Enable 🔘 Disable			
A If BMC(Other)management is dis	ibled. NEC ESMPRO Manager on	nnot monitor HW errors of some servere	Please refe	
r to the result page of auto registratio).	and the second s		
Access Mode	• Auto O Redfish			
	method and connection is estab de at the time of automatic sele method will get the priority for se	IIshed with both (IPMI and Redfish) the ac tion" option in Classic Mode's Environme erver registration process.	cess meth t-Settings	
User Name/Password Required	2	ADD		
here ((b) - Den ((b) b)				
Discovery	• Enable 🔿 Disable			
User Name/Password Required		ADD -		
	ا//ـــــــــــــــــــــــــــــــــــ			
Network Device				
Other Computer Device				
Other Computer Device				

(3) Input the following items to search managed components based on iLO.

Nama	Value			
Destination Group	specify the group to which the managed component will belong. See			
	"1.3.2 Add component to Group" for the information about creating			
	group.			
Discovery Range				
Discovery Mode	With "IP Address Range Search" selected, the NEC ESMPRO Manager			
	searches for the managed components using the IP address range.			
	With "Network Address Search" selected, the NEC ESMPRO Manager			
	searches for the managed components using the specified network			
	address.			
Start Address	When you select "IP Address Range Search" for "Search Mode" specify			
End Address	the start IP address and end IP address of the range in which managed			
End / Iddiess	components are to be searched for			
Network Address	When you select "Network Address Search" for "Search Mode" specify			
Network Mask	the network address and network mask of the managed component to be			
I WOIK WIASK	searched for			
SNMP (NEC ESMPRO	Agent iStorage M series)			
Discovery	When you discover only the components in which it O is integrated this			
Discovery	item should be "Disable"			
WC Mar (NEC ESMDD	Comment A sent Service ESN:7)			
ws-man(nec esmipr	U ServerAgentService, ESAI/)			
Discovery	When you discover components installed NEC ESMPRO			
	ServerAgentService or ESX17, select "Enable". *1, *4			
User Name/Password	Enter username and password for WS-Man communication. The account			
	must be a system administrator of the managed operating system.			
	Click "Add" button and you can add a pair of username and password up			
	to 5. *2			
	- NEC ESMPRO ServerAgentService (Windows) is installed.			
	Enter Username(Local User Accounts)/Password of Windows			
	system Administrator			
	- NEC ESMPRO ServerAgentService (Linux) is installed.			
	Enter root/Password of Linux operating system			
	- The operating system of the managed component is VMware ESXi7.			
	Enter Username/Password of VMware ESXi Administrator			
ESXi (ESXi8)				
Discovery	Select "Enable" to manage ESXi (ESXi8) of the component, *1.*2			
User Name/Password	Enter username and password for ESXi (ESXi8) communication The			
ober rumer ussword	account must be a system administrator of the managed operating system			
	Click "Add" button and you can add a pair of username and password up			
	to 5 *2			
	105. 5 Enter Username/Dassword of VMware ESVi Administrator			
Enter Username/Password of VMware ESA1 Administrator				
RESTAPI(IStorage V S	Colort "Dischlo"			
Discovery DAID system monogom	Select Disable .			
Managamast	If the amounting stratem of the money of the money is ESV:7			
Management	11 the operating system of the managed component is ESA1/, refer to			
	10.5.2.2 Auto Registration".			
	If the managed component is a VMware ESX18, please select "			
	Unregistration ".			
NEC ExpressUpdate				
Updates via NEC	When you discover only the components in which iLO is integrated, this			
ExpressUpdate Agent	item should be "Disable".			
BMC (EXPRESSSCOP	E Engine)			
Discovery	When you discover only the components in which iLO is integrated, this			

	item should be "Disable".			
iLO				
Discovery	Select "Enable"			
User Name/Password	Enter username and password for communication with the iLO, Clicking "Add"button, you can enter up to 5 pairs of username and password. *2, *3			
BMC (Other)				
Discovery	When you discover only the components in which iLO is integrated, this item should be "Disable".			
Intel(R) vPro(TM) Tech	inology			
Discovery	When you discover only the components in which iLO is integrated, this item should be "Disable".			
 CHECK: *1 If a self-signed certificate is installed on the managed server for HTTPS communication, a setting to allow it is required. Refer to "1.1 Setup Flow" for detailed information. 				
CHECK: • *2 On "Settings" - manage a list of use used for auto regist	"Environment" - "Auto Registration Setting List" screen, you can ername/password and authentication key. All entries in the list are tration every time.			
CHECK: • *3 Set a user name user's guide" or "il Administrator of Additional user v	and a password of following user account. Please refer to "iLO5 LO6 user's guide" for details about a user account of iLO. The default user with all user privileges.			
If a user account o use some function	f other than the above is used, there is a possibility that you can't for managing iLO.			
СНЕСК				
 *4 If you want to use HTTPS for WS-MAN communication with ESMPRO/ServerAgentService, refer to Chapter 2, Installation 3.3 HTTPS Setting in the ESMPRO/ServerAgentService Installation Chapter 2, Installation 3.3 HTTPS Setting 				

in the ESMPRO/ServerAgentService Installation Guide (Windows).

(4) Click "RUN DISCOVERY" and the discovery for the managed components will start.

			About NEC ESMPRO Manager	Help Classic Mode	1
I 📲 Register 📾 Co	omponent 🛕 AlertV	iewer 🎉 Tools 👻			
Auto Registration	Manual Registration				
Destination Gro	up	root ÷			
Discovery Range	6				
Discovery Mode		• IP Address Range Discovery O Network Address Discovery			
Start Address [F	Required]	192 . 168 . 8 . 28			
End Address Re	equired				
Server /	Storage				
SNMP (NEC ES	MPRO Agent, iStorage N	1 series)			
Discovery		C Enable O Disable			
WS-Man (NEC E	SMPRO ServerAgentSe	rvice, ESXi7 earlier)			
Discovery		C Enable • Disable			
ESXi (ESXi8)					
Discovery		C Enable O Disable			
REST API (iStora	age V series)				
Discovery		C Enable O Disable			
RAID system (II)	niversal RAID (Itility)				
Discovery	inversion to the outing)	C Enable Disable			
NEC ExpressUp	date (ExpressUpdate A	gent)			
Discovery		C Enable O Disable			
BMC(EXPRESSS	COPE Engine)				
Discovery		C Enable O Disable			
iLO					
Discovery		• Enable 🔿 Disable			
▲ If iLO mana	gement is disabled, NE	C ESMPRO Manager cannot monitor HW errors of some servers. Please refer t	o the		
result page of a	uto registration.				
User Name/Pas	sword [Required]	Administrator / ADD			
BMC (Other)					
Discovery		C Enable O Disable			
Intel(R) vPro(TM	 Technology 				
Discovery		C Enable O Disable			
Network	Device				
Network					
Other Co	omputer Device				
		\frown			
		RUN DISCOVERY			

CHECK:

When you click the "RUN DISCOVERY", you may see a message "The search cannot be started. ". If you have enabled "WS-Man Discovery", please check whether a "Self Signed Certificate" is allowed in section "Chapter2 Environment setting".

When you click the "RUN DISCOVERY", the discovery for components will begin and the "Auto Registration in Progress" screen will be displayed.

ESMPRO		About NEC ESMPRO Manager Help	Classic Mode 💄 admin 🗸			
🔇 Dashboard 📲 Register 🛋 Component 🛕	AlertViewer 🎇 Tools 🔻					
-						
Auto Registration Manual Regis	tration					
)				
	Auto Reg	gistration in Progress				
	Discovery Mode	IP Address Range Discovery				
	Start Address	192.168.8.28				
	End Address	192.168.8.28				
		CANCEL				
& Even if switch screens or log out, you can check the progress by opening this screen again.						

(5) If the auto registration is completed, following message will be displayed. Click "OK".


(6) The components registered will be displayed on the "Auto Registration Results" screen.

Clicking the "Name" to open the Classic mode where you can confirm the registered information.

SMPRO			About NEC	ESMPRO Manager Help Classic Mode	🛔 admin 🕶
🕏 Dashboard 📲 Register 📾 Component 🛕 AlertViewo	r 💥 Tools -				
Auto Registration Manual Registration					
		Auto Registration Resul	ts		
Entry Count:1item(s)					
Name IP Address	Management LAN IP Address 1	Management LAN IP Address 2	Install NEC ExpressUpdate Agent	Contents	
ManagementController	192.168.8.28		ExpressUpdate Disable	The component was added.	
RACK TO COMPONENT LIST. CONTINUE BEDIETEENG					

Description
Component name
IP address
IP address of BMC(EXPRESSSCOPE
Engine)/iLO/BMC(Other)/vPro
It is not displayed.
ExpressUpdate is enable
When "NEC ExpressUpdate(ExpressUpdate Agent)" is
enabled, and a component that can be installed with
ExpressUpdate Agent is discovered.
• ExpressUpdate is disable
- "NEC ExpressUpdate(ExpressUpdate Agent)" is disable
- "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled,
but there is not component that can be installed with
ExpressUpdate Agent.
• A component has been added.
This message will be displayed if the component is
successfully registered.
• Management Controller management cannot be used.
Hardware monitoring function is unavailable.
This message will be displayed when BMC
(EXPRESSSCOPE engine)/1LO/BIVIC (other)/VPro cannot
address. If you want to register the Management Controller
management function click the "Name" The connection
settings screen in Classic mode will be displayed so you
can perform the registration here.

TIPS:

 If the system management cannot discover the managed component name, the "Name" of "Component List" will be "ManagementController". The following components will be named "ManagementController + number". If you want to change the name, click the "Name" in the "Component List" to launch Classic mode, and then click "Setting" -> "Connection Setting" ->"Edit" to change component name.

3.3.2.3 Auto Registration Setting

Before executing auto registration, User Name/Password and Authentication Key can be registered up to 5. For more details, please refer to "1.3.3.3 Auto Registration Setting".

Chapter4 Setup for Managed Component of BMC (Other)

This chapter explains the setup procedure for the NEC ESMPRO Manager to manage the BMC (Other) component.

In addition to supporting the traditional IPMI access method to BMC (and other) components, Redfish is now available as an option.

Check:

- Please refer to "Appendix D List of Managed Components: BMC (and other) Components" for devices that can be accessed via Redfish.

Check:

- If BMC (and other) components were registered in the old ESMPRO/ServerManager and then updated, the access method will be set to IPMI.

4.1 Setup Flow

Setup by the following setup procedure:

- (1) Connect the management PC on which NEC ESMPRO Manager is installed and the managed component on the same network.
- (2) Configure BMC on the managed component to enable ESMPRO Management.
- (3) Register the managed component on NEC ESMPRO Manager.

4.2 Configure BMC on Managed Component

Configure BMC (Other) of the managed component via Embedded Management Software. After starting a web browser on the management PC, input URL in order to start Embedded Management Software.

In the case that the IP address of BMC (Other) is 192.168.1.1 and the setting of HTTPS is enable.

.....

CHECK:

• Please set "Platform Events" and "Trap settings" so that NEC ESMPRO Manager receive alerts from the BMC.

4.3 Register a managed component on NEC ESMPRO Manager

In order to register the managed component on the NEC ESMPRO Manager, login to the NEC ESMPRO Manager and perform the following procedure:

If necessary, see "1.3.2 Add component to Group" and add the group to which the managed component will belong.

4.3.1 Environment setting

4.3.1.1 The setting of "Self-Signed Certification"

If NEC ESMPRO Manager manages BMC(Other) components, in following cases, "Self-Signed Certification" should be accepted by NEC ESMPRO Manager in "Environment Setting". Otherwise NEC ESMPRO Manager cannot manage BMC(Other) components.

- NEC ESMPRO Manager communicates with BMC(Other) components by Redfish and using "Self-Signed Certificate".
- (1) Click "Environment" from "Settings" menu.



(2) Click "Network" and click "Edit".

ESMPRO		About NEC ESMPRO Manager Help Classic Mode 💄 admin 🗸	
🚯 Dashboard 📲 Register 🚔 Component 🛕 AlertViewer 🏂 Tools 👻	🌣 Settings 🝷		
User Accounts Access Control Network Option	Auto Registration Setting		
SNMP/ICMP Communication			
Packet Resend Count	3 number of times		
No-response Timeout 1	4 seconds		
No-response Timeout 2	4 seconds		
No-response Timeout 3	4 seconds		
No-response Timeout 4	4 seconds		
Communication with Remote Console/Remote Drive			
No-response Timeout	60 seconds		
Communication with BMC			
IPMI no response detection timer value	5 seconds		
Command Send Retry Count	5 number of times		
Send Source Port	47117		
Priority access mode at the time of automatic selection	Redfish		
Redfish no response detection timer value	20 seconds		
Self Signed Certificate	Not Allowed		
Direct Connection Setting			
Port Number	Serial Port 1		
WS-Man Communication / ESXi			
Self Signed Certificate	Allow		
Communication with iLO			
No-response Timeout	20 seconds		
Command Send Retry Count	0 number of times		
Communication Protocol for Auto Registration	HTTPS		
Self Signed Certificate			

(3) Set "Self Signed Certificate" of "Communication with BMC" to "Allow".

Edit N	letwork Settings		×
	SNMP/ICMP Communication		
	Packet Resend Count	3 number of times	
	No response Timeout 1 (1 - 65535 seconds) [Required]	4 seconds	
	No response Timeout 2 (1 - 65535 seconds) [Required]	4 seconds	
	No-response Timeout 3 (1 - 65535 seconds) [Required]	4 seconds	
	No-response Timeout 4 (1 - 65535 seconds) [Required]	4 seconds	
	Communication with Remote Console/Remote Drive		
	No-response Timeout (20 - 1800 seconds) [Required]	60 seconds	
	Communication with BMC		
	IPMI no response detection timer value (1 - 15 seconds) [Required]	5 seconds	
	Command Send Retry Count (0 - 10 number of times) [Required]	5 number of times	
	Send Source Port (1025 - 65535) [Required]	47117	
	Priority access mode at the time of automatic selection [Required]	Redfish O IPMI	
	Redfish no response detection timer value (1 - 30 seconds) [Required]	20 seconds	
	Self Signed Certificate	• Allow 🔿 Not Allowed	
	Direct Connection Setting		
	Port Number	Serial Port 1 \$	
	WS-Man Communication / ESXi		
	Self Signed Certificate	• Allow O Not Allowed	
	Communication with iLO		
	No-response Timeout (1 - 30 seconds) [Required]	20 seconds	
	Command Send Retry Count (0 - 10 number of times) [Required]	0 number of times	
	Communication Protocol for Auto Registration	• HTTPS O HTTP	
	Self Signed Certificate	Allow O Not Allowed	
		CANCEL DEFAULT APPLY	

4.3.1.2 Set the priority access method when "Auto"

You can set the priority access method when "Auto" is selected as the access method to be used for discover of BMC (other) management in an environment where both Redfish and IPMI are available.

4.3.2 Register the Managed Component

Use either of following two methods to register the managed component.

Manual Registration

This method requires the operator to directly enter the managed component's information such as the IP address of BMC (Other) and to perform "Check Connection".

Auto Registration

This method automatically searches the network for managed components and BMC (Other) that are not registered yet on the NEC ESMPRO Manager and registers them.

4.3.2.1 Manual Registration

(1) Click "Register".

Bashbaard Begister & Component A AlertViewer X Tools -	About NEC ESMPRO Manager Help Classic Mode 💄 admin -
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Server / Storage" of "Manual Registration" tab.

ESMPRO			About NEC ESMPRO Manager	Help Classic Mode	🛔 admin 🗸
Cashboard	🖞 Register 🚔 Component 🛕 Al	lertViewer 🎇 Tools 👻			
-					
Aut	o Registration Manual Registra	tion			
	erver / Storage	Other Computer Device Alert Only Management			
	Component Name [Required]				
	Alias				
	Destination Group	root +			
	Common Setting				
	OS IP Address [Required]				
	SNMP (NEC ESMPRO Agent) / WS-M	an / ESXi / iStorage			
	Management	• Registration Unregistration			
	Management Type	SNMP (NEC ESMPRO Agent, iStorage M series) WS-Man (NEC ESMPRO ServerAgentService, ESX17 earlier) ESXi (ESX18) REST API (iStorage V series)			
	SNMP Community Name(Get)	public			
	SNMP Community Name(Set)				
	RAID system (Universal RAID Utility)				
	Management	• Registration O Unregistration			
	NEC ExpressUpdate				
	Updates via NEC ExpressUpdate Agent	• Registration 🔿 Unregistration			
	Updates via Management Controller	• Registration O Unregistration			
	"BMC (EXPRESSSCOPE Engine)"/"iLO	"/"BMC(Other)"/"vPro"(Common)			
	Management	• Registration O Unregistration			
	Management Type	BMC Other VPro			
	"BMC(EXPRESSSCOPE Engine)" ADE), BMC(ECO CENTER), BMC(man For cases other than the above and "	is target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL y core server). iLO* and "vPro", Please select "BMC (Other)".			
	Authentication Key [Required]				
	"BMC (EXPRESSSCOPE Engine)"/"iLO	"/"BMC(Other)"/"vPro"(LAN)			
	Current IP Address	IP Address 1 IP Address 2			
	Failover	Enable Disable			
	IP Address 1 [Required]				
	IP Address 2				
		ADD			

(3) Input the following items.

Name	Value
Component Name	Specify the name of the managed component on NEC ESMPRO
	Manager.
	Assign a name different from other managed component names. Do not
	enter a name including blank characters. Uppercase characters are
	distinguished from lowercase characters.
Alias	Specify the information about the managed component. Do not enter a
	name including blank characters. Only blank characters cannot be
	entered. Also, please do not enter a name containing blank characters.
	The blank characters will be removed if there are half-width blank
	characters before or after the string. Uppercase characters are
	distinguished from lowercase characters. Optional.
Destination Group	Specify the group to which the managed component will belong. See
	"1.3.2 Add component to Group" for the information about creating
Commence South's a	group.
Common Setting	Creatify the OS ID Address of the successful company of
OS IP Address	Agent) / WS Man / ESVi / Storage
SNMP (NEC ESMPKO	Agent// WS-Mail / ESAI / IStorage
Management Type	Select a management type of the managed component.
Wanagement Type	WS-Man *1 *2
	VMware FSXi7 is installed on the managed component
	NEC ESMPRO ServerAgentService is installed on the managed
	component
	- ESXi *1 *2
	The operating system of the managed component is VMware ESXi8.
User Name	Enter the user name and password for communication with WS-Man or
	ESXi.
	- NEC ESMPRO ServerAgentService (Windows) is installed.
	Enter User name(Local User Accounts)/Password of Windows
	system Administrator.
Password	
	- NEC ESMPRO ServerAgentService (Linux) is installed.
	Enter root/Password of Linux operating system.
	- The operating system of the managed component is VMware ESX1.
	Enter Username/Password of VMware ESX1 Administrator.
Communication	This is displayed only when WS-Man is selected as the management
Protocol	target.
	Select protocol H11P/H11PS for connection wS-Man service.
	NEC ESMODO Server A gent Service (Windows) is installed
	If you want to use HTTPS for WS-Man communication with
	ESMPRO/ServerAgentService refer to Chapter 2 Installation 3.3
	HTTPS Setting in the ESMPRO/ServerAgentService Installation Guide
	(Windows).
	- NEC ESMPRO ServerAgentService (Linux) is installed.
	Select HTTPS.
	- The operating system of the managed component is VMware ESXi7.
	Select HTTPS.

Port Number	Enter port number where WS-Man service listens for connection. *2
	- NEC ESMPRO ServerAgentService (Windows) is installed.
	If you want to use HTTPS enter 5985.
	If you want to use ITTTP'S, enter 5980.
	- NEC ESMPRO ServerAgentService (Linux) is installed.
	Enter 5986.
	- The operating system of the managed component is VMware ESXi7.
	Enter 443.
RAID system managem	ient
Management	Select "Registration" to manage the RAID system of the component.
	- The operating system of the managed component is VMware ESX1/.
	If the managed component is a VMware ESVie place select "
	-If the managed component is a viviware ESAI8, please select
NEC ExpressUndate	
Updates via NEC	Select "Registration" to manage the component using NEC
ExpressUpdate Agent	ExpressUpdate.
Updates via	Select "Unregistration". The managed component in which BMC (Other)
Management	is integrated does not support updating via Management Controller.
Controllor	
Controller	
"BMC (EXPRESSSCO	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common)
"BMC (EXPRESSSCO Management	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration".
"BMC (EXPRESSSCO Management Management Type	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)".
"BMC (EXPRESSSCO Management Management Type	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4
"BMC (EXPRESSSCO Management Management Type	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto
"BMC (EXPRESSSCO Management Management Type	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established
"BMC (EXPRESSSCO Management Management Type	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer
"BMC (EXPRESSSCO Management Management Type	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in
"BMC (EXPRESSSCO Management Management Type Access Mode	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected
"BMC (EXPRESSSCO Management Management Type Access Mode	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process. • Redfish
"BMC (EXPRESSSCO Management Management Type Access Mode	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process. • Redfish Snecify Redfish as the "Access Mode" for BMC (other)
"BMC (EXPRESSSCO Management Management Type Access Mode	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process. • Redfish Specify Redfish as the "Access Mode" for BMC (other). • IPMI
"BMC (EXPRESSSCO Management Management Type Access Mode	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process. • Redfish Specify Redfish as the "Access Mode" for BMC (other). • IPMI Specify IPMI as the "Access Mode" for BMC (other).
"BMC (EXPRESSSCO Management Management Type Access Mode	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process. • Redfish Specify Redfish as the "Access Mode" for BMC (other). • IPMI Specify IPMI as the "Access Mode" for BMC (other). Specify the Connection Port Number used by Redfish.
"BMC (EXPRESSSCO Management Management Type Access Mode Port Number	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process. • Redfish Specify Redfish as the "Access Mode" for BMC (other). • IPMI Specify IPMI as the "Access Mode" for BMC (other). Specify the Connection Port Number used by Redfish. If you select "Auto" or "Redfish" as the access method, port number
"BMC (EXPRESSSCO Management Management Type Access Mode Port Number	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process. • Redfish Specify Redfish as the "Access Mode" for BMC (other). • IPMI Specify IPMI as the "Access Mode" for BMC (other). Specify the Connection Port Number used by Redfish. If you select "Auto" or "Redfish" as the access method, port number settings are Mandatory.
"BMC (EXPRESSSCO Management Management Type Access Mode Port Number User Name	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process. • Redfish Specify Redfish as the "Access Mode" for BMC (other). • IPMI Specify IPMI as the "Access Mode" for BMC (other). Specify the Connection Port Number used by Redfish. If you select "Auto" or "Redfish" as the access method, port number settings are Mandatory. Enter the user name and password for communication with the BMC
"BMC (EXPRESSSCO Management Management Type Access Mode Port Number User Name Password	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process. • Redfish Specify Redfish as the "Access Mode" for BMC (other). • IPMI Specify IPMI as the "Access Mode" for BMC (other). Specify the Connection Port Number used by Redfish. If you select "Auto" or "Redfish" as the access method, port number settings are Mandatory. Enter the user name and password for communication with the BMC (Other), *3
"BMC (EXPRESSSCO Management Management Type Access Mode Port Number User Name Password "BMC (EXPRESSSCO	PE Engine)"/"iLO"/"BMC(Other)"/"vPro"(Common) Select "Registration". Select "BMC (Other)". Select "Access Mode" used by communication with BMC(Other). *4 Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process. Redfish Specify Redfish as the "Access Mode" for BMC (other). IPMI Specify IPMI as the "Access Mode" for BMC (other). Specify the Connection Port Number used by Redfish. If you select "Auto" or "Redfish" as the access method, port number settings are Mandatory. Enter the user name and password for communication with the BMC (Other), *3 PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN)

CHECK:

• *1 If a self-signed certificate is installed on the managed server for HTTPS communication, a setting to allow it is required. Refer to "1.1 Setup Flow" for detailed information.

CHECK:

• *2 Regarding a port number for WS-Man communication, refer to "Appendix C. Port number for WS-Man communication".

СНЕСК:
• *3 Set a user name and a password of following user account. Please refer to "BMC/CMC Management Console User's Guide" for details about a user account of
BMC (Other).
Administrator of the default user
Additional user with all user privileges.
If a user account of other than the above is used, there is a possibility that you can't use some function for managing BMC (Other).
СНЕСК.
 *4 When using "Redfish" as the access method for BMC (other) and using self-signed certificates, it is necessary to refer to "4.3.1 Environment setting" in ESMPRO/ServerManager to allow self-signed certificates for communication between the BMC (other) component and ESMPRO/ServerManager.
IMPORTANT:
• If BMC (Other) management is disabled, NEC ESMPRO Manager may not be able
to monitor HW status. Detailed information is shown in the connection check result
screen.
IMPORTANT:
• When the access method for BMC (other) is Redfish, the remote console function and console log settings cannot be used. Other than that, there is no difference in functionality between IPMI and Redfish.

(4) Click "ADD".

If there is an error in the input content, correct the input content following the message.

NEC ESMPRO Manager Setup Guide

ESMPRO		About NEC ESMPRO Manager	Help Classic Mode 💄 admin 🗸
🚯 Dashboard 📲 Register 🚔 Component 🛕 Alert	Viewer 💥 Tools 👻		
Auto Registration Manual Registratio	n		
Server / Storage Network Device	Other Computer Device Alert Only Management		
Component Name [Required]	BMC_Other		
Alias			
Destination Group	root •		
SNMP (NEC ESMPRO Agent) / WS-Man	/ ESXi / iStorage		
Management	Registration O Unregistration		
RAID system (Universal RAID Utility)			
Management	Registration Unregistration		
NEC ExpressUpdate			
Updates via NEC ExpressUpdate Agent	Registration • Unregistration		
"BMC (EXPRESSSCOPE Engine)"/"iLO"/"	BMC(Other)"/"vPro"(Common)		
Management	• Registration O Unregistration		
▲ If BMC / iLO management is disable Please refer to the result page of conner	Id, NEC ESMPRO Manager cannot monitor HW errors of some servers. ction check.		
Management Type	BMC iLO BMC (Other) vPro		
	arget for EXPRESSSCOPE Engine1/2/3/sft/2SP/3SP, EM Card(SIGMABL ore server). and 'YPro', Please select "BMC (Other)".		
Access Mode	Auto Redfish IPMI		
▲ If "Auto" is selected as an access m s methods i.e. then refer "Priority access ment-Settings Network screen and selections.	ethod and connection is established with both (IPMI and Redfish) the acces s mode at the time of automatic selection' option in Classic Mode's Environ cted access method will get the priority for server registration process.		
Port Number [Required]	443		
	r used by Redfish. eb service of BMC Management Console.		
User Name/Password [Required]	Administrator /		
"BMC (EXPRESSSCOPE Engine)"/"iL0"/"	BMC(Other)"/"vPro"(LAN)		
IP Address 1 [Required]	192 . 168 . 8 . 26		

(5) "CHECK CONNECTION" screen is displayed.

Click "Check Connection" to collect the managed component information for the management.

ESMPRO	About NEC ESMPRO Manager	Help Classic Mode	💄 admin 👻
😍 Dashboard 🗴 Register 🚔 Component 🛕 AlertViewer 💥 Tools 👻			
Auto Registration Manual Registration Server / Storage Network Device Other Computer Device Alert Only Management To remotely manage components, please continue to perform check connection.			
CHECK CONNECTION 7			

(6) If the "CHECK CONNECTION" is completed, "Connection check results" screen will be displayed.

					(
ESMPRO			About NEC ESMPRO Manager	Help Classic Mode	💄 admin 🕶
🚯 Dashboard 🛛 📲 Register 🛛 📾 Component	nt 🛕 AlertViewer 💥 Tools 🝷				
Auto Registration Manual	Registration				
Server / Storage Networ	rk Device Other Computer Device	Alert Only Management			
		Connection check results			
	Management	Detected Detail			
	BMCOther	Detected Hardware monitoring function via BMC (Other)	is available.		
		BACK TO COMPONENT LIST CONTINUE REGISTERING	l		

Detected	Detail			
Detected	The feature was detected.			
	NEC ESMPRO Manager can use the feature to manage the component.			
Not Detected	The feature was not detected.			
	NEC ESMPRO Manager cannot use the feature to manage the component.			
	Check parameters corresponding to the feature.			
	Click the "Name" of the component that could not be registered in the			
	"Component List". The connection settings screen in Classic mode will be			
	displayed. Please check that there are no errors in the entered items. For more			
	details, please refer to the online help for NEC ESMPRO Manager.			

4.3.2.2 Auto Registration

(1) Click "Register".

ESMPRO			About NEC ESMPRO Manager Help Classic Mode 🛓 admin -
¢ [Dashboard 😫 Register 🕞 Component 🛕 AlertViewer 💥 Tools 👻		
	Component Status		Alert Status
	The component is not registered.		No alerts are unread.

(2) Click the "Server / Storage" of "Auto Registration".

Register 🛋 Component 🛕 Alert	Viewer 💥 Tools -	
egistration Mulual Registratio	n	
Destination Group	root	
Discovery Range		
Discovery Mode	• IP Address Range Discovery O Network Address Discovery	
Start Address [Required]		
End Address [Required]		
C Server / Storage		
SNMP (NEC ESMPRO Agent, iStorage	M series)	
Discovery	Enable Disable	
SNMP Community Name [Required]	public	
WS-Man (NEC ESMPRO ServerAgentS	ervice, ESXI7 earlier)	
Discovery	• Enable O Disable	
User Name/Password [Required]	7	
ESXi (ESXiB)		
Discovery	Enable Disable	
User Name/Password [Required]	/ ADD	
REST API (IStorane V series)		
Discovery	Enable Disable	
575 O.S. (1976)		
User Name/Password [Required]	/ ADD	
RAID system (Universal RAID Utility)		
Discovery	Enable Disable	
NEC ExpressUpdate (ExpressUpdate	Agent)	
Discovery	Enable Disable	
Discovery	• Enable Disable	
Discovery	C Enable O Disable	
[™] BMC(EXPRESSSCOPE Engine)* i ADE), BMC(ECO CENTER), BMC(many For cases other than the above and "i [™] If BMC(EXPRESSSCOPE Engine)	s target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SiGMABL core server). O' and '\Pro', Please select 'BMC (Other)''. management is disabled, NEC ESMPRO Manager cannot monitor HW errors	of some s
ervers. Please refer to the result page	of auto registration.	
neo experiopiane		
Authentication Key [Required]	DDA	
iLO		
Discovery	• Enable O Disable	
▲ If iLO management is disabled, N	EC ESMPRO Manager cannot monitor HW errors of some servers. Please rel	er to the
result page of auto registration.		
User Name/Password [Required]	/ ADD	
BMC (Other)		
Discovery	• Enable O Disable	
	abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. P	ease refe
r to the result page of auto registratio	n.	
Access Mode	Auto Redfish IPMI method and connection is setablished with both (IDMI and Dedited to the connection)	iss math
m in Auto is selected as an access ods i.e. then refer 'Priority access mo Network screen and selected access	memory env connection is established with both (IPMI and Redfish) the acc de at the time of automatic selection' option in Classic Mode's Environment method will get the priority for server renistration process.	Settings
and an entropy access		
User Name/Password [Required]	/ ADD	
Intel(R) vPro(TM) Technology		
Discovery	Enable Disable	
User Name/Password [Required]	/	
Network Device		
Other Computer Device		

(3) Input the following items to search managed components of BMC (Other).

Name	Value
Destination Group	Specify the group to which the managed component will belong
Discovery Pango	speeny the group to when the managed component will belong.
Discovery Made	With "ID Address Dange Search" selected the NEC ESMDRO Manager
Discovery Mode	with IF Address Kange Search selected, the NEC ESNERO Manager
	With "Network Address Components using the IP address range.
	with "Network Address Search" selected, the NEC ESMPRO Manager
	searches for the managed components using the specified network
<u>Ct.</u> (A 11	
Start Address	when you select 'IP Address Range Search' for 'Search Mode', specify
End Address	the start IP address and end IP address of the range in which managed components are to be searched for
Network Address	When you select "Network Address Search" for "Search Mode" specify the
Network Mask	network address and network mask of the managed component to be
	searched for.
SNMP (NEC ESMPRO	Agent, iStorage M series)
Discovery	When you discover only the components in which BMC (Other) is
	integrated, this item should be "Disable".
WS-Man(NEC ESMPR	O ServerAgentService, ESXi7)
Discovery	When you discover components installed NEC ESMPRO
5	ServerAgentService or VMware ESXi6 and later, select "Enable". *1, *5
User Name/Password	Enter username and password for WS-Man communication. The account
	must be a system administrator of the managed operating system.
	Click "Add" button and you can add a pair of username and password up
	to 5. *2
	- NEC ESMPRO ServerAgentService (Windows) is installed.
	Enter Username(Local User Accounts)/Password of Windows system
	Administrator
	- NEC ESMPRO ServerAgentService (Linux) is installed.
	Enter root/Password of Linux operating system
	- The operating system of the managed component is VMware ESXi.
	Enter Username/Password of VMware ESXi Administrator
ESXi (ESXi8)	
Discovery	Select "Enable" to manage ESXi (ESXi8) of the component. *1
User Name/Password	Enter username and password for ESXi (ESXi8) communication. The
	account must be a system administrator of the managed operating system.
	Click "Add" button and you can add a pair of username and password up
	to 5. *2
	Enter Username/Password of VMware ESXi Administrator
REST API(iStorage V set	eries)
Discovery	Select "Disable".
RAID system managem	ent
Management	Select "Enable" to manage the RAID system of the component.
	If the operating system of the managed component is VMware ESX1, WS-
	Ivian management must be enabled in addition to this setting.
NEC ExpressUpdate	
Updates via NEC	Select "Enable" to manage the component using NEC ExpressUpdate.
ExpressUpdate Agent	E Engine)
Discovery	When you discover only the components of DMC (Other) this iters at suld
Discovery	be "Disable".
iLO	
Discovery	When you discover only the components of BMC (Other), this item should

	be "Disable".	
BMC (Other)		
Discovery	Select "Enable"	
Access Mode	Select "Access Mode" used by communication with BMC(Other). *4 • Auto If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods i.e. then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment-Settings Network screen and selected access method will get the priority for server registration process. • Redfish Specify Redfish as the "Access Mode" for BMC (other).	
	• IPMI Specify IPMI as the "Access Mode" for BMC (other).	
User Name/Password	Enter username and password for communication with the BMC (Other), Clicking "Add" button, you can enter up to 5 pairs of username and password. *2, *3	
Intel(R) vPro(TM) Tec	hnology	
Discovery	When you discover only the components of BMC (Other), this item should be "Disable".	

CHECK:

•	*1 If a self-signed certificate is installed on the managed server for HTTPS
	communication, a setting to allow it is required. Refer to "1.1 Setup Flow" for detailed information

CHECK:

• *2 On "Settings" - "Environment" - "Auto Registration Setting List" screen, you can manage a list of username/password and authentication key. All entries in the list are used for auto registration every time.

CHECK:

- *3 Set a user name and a password of following user account. Please refer to "BMC/CMC Management Console User's Guide" for details about a user account of BMC (Other).
 - -- Administrator of the default user
 - -- Additional user with all user privileges.

If a user account of other than the above is used, there is a possibility that you can't use some function for managing BMC (Other).

.....

CHECK:

• *4 When using "Redfish" as the access method for BMC (other) and using self-signed certificates, it is necessary to refer to "4.3.1 Environment setting" in ESMPRO/ServerManager to allow self-signed certificates for communication between the BMC (other) component and ESMPRO/ServerManager.

.....

.....

CHECK:

 *5 If you want to use HTTPS for WS-MAN communication with ESMPRO/ServerAgentService, refer to Chapter 2, Installation 3.3 HTTPS Setting in the ESMPRO/ServerAgentService Installation Guide (Windows).
 IMPORTANT:

..... • When the access method for BMC (other) is Redfish, the remote console function and console log settings cannot be used. Other than that, there is no difference in functionality between IPMI and Redfish. (4) Click "RUN DISCOVERY" and the discovery for the managed components will start.

to Registration Manual Registrati	on	
Deutlanting Ore		
Destination Group	root	
Discovery Kange	IR Address Ranna Discovery	
Start Address [Paquirad]	102 168 8 26	
Start Address [reduied]		
End Address [Required]	192 . 168 . 8 . 26	
Server / Storage		
SNMP (NEC ESMPRO Agent, iStorag	e M series)	
Discovery	C Enable O Disable	
WS-Man (NEC ESMPRO ServerAgent	tService, ESXI7 earlier)	
Discovery	Enable Obisable	
ESXI (ESXI8)		
Discovery	Enable O Disable	
REST API (iStorage V series)		
Discovery	Enable O Disable	
RAID system (Universal RAID Utility)		
Discovery	Enable O Disable	
NEC ExpressUpdate (ExpressUpdate	Agent)	
Discovery	O Enable O Disable	
BMC(EXPRESSSCOPE Engine)		
Discovery	Enable Oisable	
iLO		
Discovery	Enable Oisable	
BMC (Other)		
Discovery	• Enable O Isable	
▲ If BMC(Other)management is di r to the result page of auto registrati	isabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refe ion.	
Access Mode	• Auto CRedfish IPMI	
If "Auto" is selected as an acces ods i.e. then refer "Priority access m Network screen and selected acces	is metnoo ano connection is eatabilished with both (IPMI and Redfish) the access meth loode at the time of automatic selection' option in Classic Mode's Environment-Settings is method will get the priority for server registration process.	
User Name/Password [Required]	Administrator / ADD	
Intel(R) vPro(TM) Technology		
Discovery	C Enable O Disable	
Network Device		
Other Computer Device		

..... CHECK:

When you click the "RUN DISCOVERY", you may see a message "The search cannot be started.". If you have enabled "WS-Man Discovery", please check whether a "Self Signed Certificate" is allowed in section "1.3.1 Environment setting". When you click the "RUN DISCOVERY", the discovery for components will begin and the "Auto Registration in Progress" screen will be displayed.

()			_
()			
()			
\bigcirc			
egistration in Progress			
IP Address Range Discovery			
192.168.8.26			
192.168.8.26			
CANCEL			
	P Address Range Discovery 192.168.8.26 192.168.8.26 192.168.8.26	Acgistration in Progress IP Address Range Discovery 192.168.8.26 192.168.8.26	Registration in Progress IP Address Range Discovery 192.168.8.26 192.168.8.26 Discovery CANCEL og out, you can check the progress by opening this screen again.

(5) If the auto registration is completed, following message will be displayed. Click "OK".

localhost:21120 says
2023/10/17 16:05:59 Obtaining/changing of the component name was completed, and the automatic registration was successful.
ОК

(6) The components registered will be displayed on the "Auto Registration Results" screen.

icking the 1	value to c	open the Classic	mode where yo	ou can confirm th	e registered information
MPRO				About NEG	C ESMPRO Manager Help Classic Mode 💄 admin 🗸
Dashboard - 🖺 Register 📾	Component 🛕 AlertView	wer 💥 Tools 🔻			
Auto Registration	Manual Registration				
			Auto Registration Resu	llts	
Entry Count:1item	(s)				
Name	IP Address	Management LAN IP Address 1	Management LAN IP Address 2	Install NEC ExpressUpdate Agent	Contents
ManagementCont	roller	192.168.8.26		ExpressUpdate Disable	The component was added. Hardware monitoring function via BMC (Oth er) is available.
		BAC	K TO COMPONENT LIST CONTIN	JE REGISTERING	

Clicking the "Name" to open the Classic mode where you can confirm the registered information.

Nama	Description				
Name	Description				
Name	Component name				
IP address	IP address				
Management LAN IP Address 1	IP address of BMC(EXPRESSSCOPE				
	Engine)/iLO/BMC(Other)/vPro				
Management LAN IP Address 2	It is not displayed.				
Install NEC ExpressUpdate Agent	• ExpressUpdate is enable When "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, and a component that can be installed with ExpressUpdate Agent is discovered.				
	• ExpressUpdate is disable				
	 - "NEC ExpressUpdate(ExpressUpdate Agent)" is disable - "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent. 				
Contents	The component has been added.				
	This message is displayed when a component has been successfully registered.				
	• The hardware status monitoring function via BMC (other) is				
	This massage will be displayed if BMC (other) is				
	successfully registered				
	Management Controller management cannot be used				
	Hardware monitoring function is unavailable				
	This message will be displayed when BMC				
	(EXPRESSSCOPE engine)/iLO/BMC (other)/vPro cannot				
	be discovered for a component registered by an OS IP				
	address. If you want to register the Management Controller				
	management function, click the "Name". The connection				
	settings screen in Classic mode will be displayed, so you				
	can perform the registration here.				

TIPS:
· If the system management cannot discover the managed component name, the
"Name" of "Component List" will be "ManagementController".
The following components will be named "ManagementController + number".
If you want to change the name, click the "Name" in the "Component List" to launch
Classic mode, and then click "Setting" -> "Connection Setting" ->"Edit" to change
component name.

4.3.2.3 Auto Registration Setting

Before executing auto registration, User Name/Password and Authentication Key can be registered up to 5. For more details, please refer to "1.3.3.3 Auto Registration Setting".

Chapter5 EM Card and Chassis Management

5.1 Overview

The NEC ESMPRO Manager has following functions by communication with the EM card in a blade enclosure,

Information Collection

NEC ESMPRO Manager collects the status and the information of the blade enclosure as follows.

- -- Blade / EM Card / Switch Module List
- If the slot state of CPU blade, EM card or switch module is changed, NEC ESMPRO Manager collects current slot state.
- -- Chassis Information
 - NEC ESMPRO Manager collects the blade enclosure name, the name and ID of the rack in which the blade enclosure is installed.
- -- EM Card / Switch Module Status

NEC ESMPRO Manager obtains the STATUS Lamp of the EM card and the switch module.

Component Monitoring

NEC ESMPRO Manager always monitors the slot state in the blade enclosure and the STATUS Lamp of the EM card and the Switch Module. When some slot state change or failure occurs, NEC ESMPRO Manager notifies the operator.

CPU Blade Auto Setting

When NEC ESMPRO Manager detects new CPU blade installed on the blade enclosure, the NEC ESMPRO Manager configures BMC on the CPU blade (managed component) through the EM card to control the managed component remotely. NEC ESMPRO Manager also registers the managed component for its own, and execute the "Check Connection".

5.2 System Requirements

NEC ESMPRO Manager can manage the following EM card.

Hardware

EM card that is listed "Appendix D. Managed Components Summary".

• Communication Medium

TCP/IP network

CH	ECK:
•	NEC ESMPRO Agent Extension and NEC DianaScope Agent cannot be installed on
	EM card.

5.3 Setup for EM Card

5.3.1 Setup Flow

Perform the following setup procedure:

- (1) Connect the NEC ESMPRO Manager server and the EM card.
- (2) Setup EM card for communication with NEC ESMPRO Manager.
- (3) Register the EM card on NEC ESMPRO Manager.

5.3.2 Setup EM Card for communication with NEC ESMPRO Manager Setup the EM Card as follows. See Users Guide that attached to EM Card for detail.

(1) Set the IP address of the EM Card.

.....

CHECK:

- The IP address set on the EM card should be the value that can be divided by 4. If the IP address be set other value, NEC ESMPRO Manager will fail "Check Connection". NEC ESMPRO Manager communicates to the EM card with the "fixed IP address".
- (2) Setup EM Card for communication with NEC ESMPRO Manager (DianaScope support). Use setdsl command for SIGMABLADE-M.

Use SET DSGPASSWORD and SET DSGSTATE command for SIGMABLADE-H.

5.3.3 Register EM Card on NEC ESMPRO Manager

You can register the EM card with similar way of registering the ordinary managed component. Use either of the two methods to register EM card.

If necessary, see "1.3.2 Add component to Group" and add the group to which the managed component will belong.

Manual Registration

This method requires the operator to directly enter the EM card's information such as the IP address and to perform "Check Connection".

Auto Registration

This method automatically searches the network for managed components and EM card that are not registered yet on the NEC ESMPRO Manager, and registers them.

TIPS:

- NEC ESMPRO Manager distinguishes the EM card from ordinary managed component by "Check Connection".
 - After "Check Connection" of the EM card is completed, Information of the blade enclosure (chassis) is displayed on the "Chassis List" on the NEC ESMPRO Manager.
 - The chassis name on the NEC ESMPRO Manager is set to the first 16 characters of the blade enclosure name. If the same name is already registered, some number is added to the name.

You can change the chassis name on "Chassis Information".

5.3.3.1 Manual Registration

(1) Click "Register".

ESMPRO About NEC ESMPRO Manager Help Classic Mode					
🖨 Das	hboard 🗗 Register 🛋 Component 🔺 AlertViewer 🛠 Tools 👻				
_					
	Component Status		Alert Status		
	The component is not registered.		No alerts are unread.		

(2) Click the "Server / Storage" of "Manual Registration".

ESMPRO			About NEC ESMPRO Manager	Help Classic Mode	âdmin ▼
🔇 Dashboard -	Register 📾 Component 🛕 Aler	tViewer 🄀 Tools -			
Auto	Registration Manual Registration				
Ser	ver / Storage	Other Computer Device Alert Only Management			
	Component Name [Required]				
	Alias				
1	Destination Group	root 🗢			
	Common Setting				
	DS IP Address [Required]				
	SNMP (NEC ESMPRO Agent) / WS-Mar	/ ESXi / iStorage			
1	Management	Registration Unregistration			
	Management Type	SNMP (NEC ESMPRO Agent, IStorage M series) WS-Man (NEC ESMPRO ServerAgentService, ESXi7 earlier) ESXi (ESXi8) REST API (IStorage V series)			
	SNMP Community Name(Get)	public			
3	SNMP Community Name(Set)				
	RAID system (Universal RAID Utility)				
	Management	• Registration O Unregistration			
	NEC ExpressUpdate				
	Updates via NEC ExpressUpdate Agent	Registration Unregistration			
	Updates via Management Controller	• Registration 🔾 Unregistration			
	BMC (EXPRESSSCOPE Engine)"/"iLO"/	'BMC(Other)"/"vPro"(Common)			
	Management	• Registration O Unregistration			
3	Management Type	BMC iL0 BMC (Other) vPro			
	BMC(EXPRESSSCOPE Engine)" is ADE), BMC(ECO CENTER), BMC(many For cases other than the above and "iLt	target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL core server). 3° and "vPro", Please select "BMC (Other)".			
	Authentication Key [Required]				
	BMC (EXPRESSSCOPE Engine)"/"iLO"/	'BMC(Other)"/"vPro"(LAN)			
	Current IP Address	IP Address 1 IP Address 2			
1	Failover	Enable Disable			
	P Address 1 [Required]				
	P Address 2				
		ADD			

(3) Input the following items on the "Manual Registration"-" Full Management" view.

Name	Value
Component Name	Specify the name of the EM card on NEC ESMPRO Manager.
-	Assign a name different from other managed component names. Do not
	enter a name including blank characters. Uppercase characters are
	distinguished from lowercase characters.
Alias	Specify the information about the EM card. Do not enter a name including
	blank characters. Only blank characters cannot be entered. Also, please do
	not enter a name containing blank characters. The blank characters will be
	removed if there are half-width blank characters before or after the string.
	Uppercase characters are distinguished from lowercase characters.
	Optional.
Group	Specify the group to which the EM card will belong. See "1.3.2 Add
	component to Group" for the information about creating group.
Common Setting	
OS IP Address	Specify the Address of the EM card.
SNMP (NEC ESMPRO	Agent) / WS-Man / ESXi / iStorage
Management	Select "Registration" to manage the EM card.
Management Type	Select "SNMP"
SNMP Community	SNMP Community Name which is specified at the EM card.
Name(Get)	The default value is "public".
SNMP Community	SNMP Community Name which is specified at the EM card.
Name(Set)	The default value is "public".
RAID system managem	ent
Management	Select "Unregistration".
NEC ExpressUpdate	
Updates via NEC	Select "Unregistration".
ExpressUpdate Agent	
Updates via	Select "Unregistration".
Management Controller	
"BMC (EXPRESSSCO	PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (Common)
Management	Select "Registration".
Management Type	Select "BMC".
Authentication Key	Enter the "authentication key" for the EM card.
BMC (EXPRESSSCO	PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN)
Current IP Address	Select IP Address I
Failover	Select "Disable".
IP Address 1	Enter the IP address that is specified on LAN1 of the BMC configuration
	for the managed component.
	If the managed component is a fault tolerant server, you should enter the IP
	address of the management LAN port for the CPU/IO module 0 to the form.
	If the managed component is a server which has EXPRESSSCOPE Engine
	SP3(2BINC model), you should enter the IP address of the management
ID A dducer 2	LAN port for the Master BMU to the form.
IP Address 2	I nis field can be blank.

(4) Click "ADD".

ESMPRO			About NEC ESMPRO Manager	Help Classic Mode	💄 admin 🗸
C Dashboard	🖥 Register 📾 Component 🛕 Aler	tViewer 💥 Tools 👻			
					_
Auto	Registration Manual Registratio	nc			
Se	erver / Storage Network Device	Other Computer Device Alert Only Management			
	Component Name [Required]	EM			
	Alias				
	Destination Group	root +			
	Common Setting				
	OS IP Address [Required]	192 . 168 . 8 . 103			
	SNMP (NEC ESMPRO Agent) / WS-Man	/ ESXi / iStorage			
	Management	• Registration O Inregistration			
	Management Type	SNMP (NEC ESMPRO Agent, Istorage M series) W5-Man (NEC ESMPRO ServerAgentService, ESX17 earlier) ESX1 (ESX18) REST API (Istorage V series)			
	SNMP Community Name(Get)	public			
	SNMP Community Name(Set)				
	RAID system (Universal RAID Utility)				
	Management	Registration • Unregistration			
	NEC ExpressUpdate				
	Updates via NEC ExpressUpdate Agent	O Registration • Unregistration			
	Updates via Management Controller	• Registration 🔿 Unregistration			
	"BMC (EXPRESSSCOPE Engine)"/"iLO"/"	'BMC(Other)'/'vPro'(Common)			
	Management	• Registration O Inregistration			
	Management Type	• BMC illo BMC (Other) vPro			
	▲ "BMC(EXPRESSSCOPE Engine)" is ADE), BMC(ECO CENTER), BMC(many of For cases other than the above and "iLC	target for EXPRESSSCOPE Engine1/2/3/5t/2SP/3SP, EM Card(SIGMABL core server). 3° and "vPro", Please select "BMC (Other)".			
	Authentication Key [Required]				
	"BMC (EXPRESSSCOPE Engine)"/"iLO"/"	'BMC(Other)'/'vPro'(LAN)			
	Current IP Address	O IP Address 1 O IP Address 2			
	Failover	• Enable O Disable			
	IP Address 1 [Required]	192 . 168 . 8 . 104			
	IP Address 2				
		ADD			

(5) "CHECK CONNECTION" screen is displayed.

Click "CHECK CONNECTION" to collect the managed component information for the management.

ESMPRO	About NEC ESMPRO Manager	Help Classic Mode	💄 admin 🗸
🕼 Dashboard 📲 Register 🚔 Component 🛕 AlertViewer 💥 Tools 👻			
Auto Registration Manual Registration			
Server / Storage Network Device Other Computer Device Alert Only Management			
To remotely manage components, please continue to perform check connection.			
CHECK CONNECTION			

(6) "Connection check results" screen will be displayed.

SMPR	🖸 ard 📲 Register 📾	Component 🛕 AlertView	er 💥 Tools -		About NEC E	SMPRO Manager	Help	Classic Mode	Ladmin ◄	
	Auto Registration	Manual Registration								
	Server / Storage	Network Device Ot	her Computer Device Alert O	nly Manageme	ent					
				Conn	ection check results					
			Management	Detected	Detail					
			SNMP (NEC ESMPRO Agent, iStorage M series)	Detected	SNMP (NEC ESMPRO Agent) can be used.					
			BMC	Detected	SNMP Alert configuration is not completed on BMC (EXPRESSSCOPE Engine). Setting up SNMP Alert configuration is required to send hard ware error alert to NEC ESMPRO Manager. Please set NEC ESMPRO M anager's address a Xilert Receiver / Using the BMC (EXPRESSCOPE E ngine) NEC ExpressUpdate function can be used.					
			BA	CK TO COMPONE	OONTINUE REGISTERING					

Detected	Detail
Detected	The feature was detected.
	NEC ESMPRO Manager can use the feature to manage the component.
Not Detected	The feature was not detected.
	NEC ESMPRO Manager cannot use the feature to manage the component.
	Check parameters corresponding to the feature. Click the "Name" of the
	component that could not be registered in the "Component List". The
	connection settings screen in Classic mode will be displayed. Please check
	that there are no errors in the entered items. For more details, please refer to
	the online help for NEC ESMPRO Manager.

5.3.3.2 Auto Registration

(1) Click "Register".

ESMP	RO	About NEC ESMPRO Manager Help Classic Mode 💄 admin 🕶
🖨 Dasi	board 🚯 Register 🖨 Component 🛕 AlertViewer 💥 Tools 👻	
_		
4	Component Status	Alert Status
	The component is not registered.	No alerts are unread.

(2) Click the "Server / Storage" of "Auto Registration".

<form></form>	
<form></form>	
<form></form>	
<form></form>	
<form></form>	
Watan NEC ESAPPIND served procession Dicorry name name<	
Dicory Dicory Course Course<td></td>	
Exx (ESXa)	
ExX (EXX8) Discovery	
Discovery	
Uier Hamme/Password [Required] / ADD REST API (Storage V series) Discovey I make D taskie Vier Hamme/Password [Required] / ADD RADD system (Daveraal RAD Utility) Discovey I make D taskie Vier Kamme/Password (Required) / ADD RADD System (Daveraal RAD Utility) Discovey I make D taskie Vier Kamme/Password (Required) / ADD RADD System (Daveraal RAD Utility) Discovey I make D taskie Vier CADRESSCOPE Explore) Discovey I make D taskie Vier CADRESSCOPE Explore) Discovey I make D taskie AMDC(CADRESSCOPE Explore) Discovey I make D taskie AMDC(CADRESSCOPE Explore) Discovey I make D taskie AMDC(CADRESSCOPE Explore) Te cases other Hand baskie and Vier (Phese state) To Careso other Hand baskie and Vier (Phese state) Discovey I make D taskie Authentication Kay [Required] I make D taskie And D taskie Discovey I make D taskie Authentication Kay [Required] I make D taskie And D taskie Discovey I make D taskie Authentication Kay [Required] I make D taskie Discovey I make D taskie Discovey I make D taskie Cate D taskie Discovey Discovey	
REST APP (GRonge V series) Discovery fastic	
Discovery Charles C	
User Name/Parsword [Required] / Allo pystem (Universal RADU Ublity) Discovery Catable Discovery Catable 	
Note Namedra standards (Regetted) RAD system (Universal RADD Utility) Discovery Exable Discovery Exable Disable RAD (EXPRESSEDCOFE Engine) Discovery Exable Disable ACCOUNTRE, Nac(Mergetted) Disable ACCOUNTRE, Nac(Mergetted) Disable ACCOUNTRE, Nac(Mergetted) Disable ACCOUNTRE, Nac(Mergetted) Discovery Exable Disable <td></td>	
AND system (Universal RADD Utility) Discovery Exable Discovery Exable Discovery	
Discovery • Enable NEC Expressiblydate (Expressiblydate Agent) Discovery • Enable Discovery • Enable<	
NEC Express/Jodate (Express/Jodate Agent) Discovery Enable Disable MC(EXPRESSEODEE Engine) Discovery Enable Disable A. "BMC(EXPRESSEODEE Engine) Discovery Enable Disable A. "BMC(EXPRESSEODEE Engine) Enable on the start of expression of the start of expression of the start of the Clother)*. A. "BMC(EXPRESSEODEE Engine) A If BMC(EXPRESSEODEE Engine) Enable on the start of the start page of alot registration. NCE Expression of the field in the above and "LC" and "Pro". Please start "BMC (Other)*. A. If BMC(EXPRESSEODEE Engine) Discovery Enable Disable <td></td>	
Discovery Linkow Discovery Enable A "BMC(EXPRESSCOPE Engine) Discovery Enable <td></td>	
Discovery Bable <td></td>	
"INCICINITIESSECOPE Engines" In larget for EXPRESSECOPE Engines 1/2/3/97/25P/35P, EM Card(SIGMABL ADE) MURICIO CENTERD, MURICIONAL your as an annual set of the security page of subtor registration. NC Express Update	
NCC CxpressUpdate Enable Disable Authentication Key [Required] I Convery Enable Disable A If RD management is disabled, NCC ESMPRD Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. User Name/Password [Required] Enable Inable Disable ACC (Other) Discovery Enable Inable Disable ACC (Other) Discovery Enable Inable Inable Inable ACC Refinition ACC Refinit	
Authentication Key [Required] ADD IAD Discovery In FLAD management is disabled, NED ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. User Name/Password [Required] Ide Contery: Discovery Image: Installer Insta	
Automication key precedents;	
ID Discovery	
Discovery Exable Disable A. If ILD management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. User Name/Password [Required] / ADD BMC (Other) Discovery Exable Disable A. If BMC(Other)management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. Art BMC(Other)management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. Access Mode Auto Reditah IPMI A. If 'Audo' is alsolected as an access method will get the piontry for server registration process. View Name/Password [Required] / ADD Intelle Disable User Name/Password [Required] Intable Intelle Disable Disable 	
A. If UNC Converse in a stabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. If UNC Converse in the stabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. If UNC Converse in the stabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. If UNC Converse in the stabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. If UNC Converse in the stabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. Access Mode	
User Name/Password [Required] / ADD BMC (Other) Discovery If BMC(Other)management is disabled, NEC ESMPRIO Manager cannot monitor HW errors of some servers. Please refer ris the result page of auto registration. A. If BMC(Other)management is disabled, NEC ESMPRIO Manager cannot monitor HW errors of some servers. Please refer ris the result page of auto registration. A. If BMC(Other)management is disabled, NEC ESMPRIO Manager cannot monitor HW errors of some servers. Please refer ris the result page of auto registration. A. If BMC(Other)management is disabled, NEC ESMPRIO Manager cannot monitor HW errors of some servers. Please refer ris the result page of auto registration is established with both (PMI and Redfink) the access metho dis is then refer "Priority access mode at the time of automatic selection" option in Classic Mode's Environment Settings Network screen and selected access method will get the priority for server registration process. User Name/Password [Required] Discovery Enable Enabl	
User Name/Password [Required] / Discovery Exable Disable A. If BMC(Other) Discovery Exable Disable A. If BMC(Other)management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refe rio the result page of auto registration. Access Mode A and B a	
BMC (Other) Discovery Enable Disable A. If BMC(Other)management is disabled, NEC ESMPRIO Manager cannot monitor HW errors of some servers. Please referice the risk page of auto registration. Access Mode Auto Redfahr If MMC (Other)management is disabled, NEC ESMPRIO Manager cannot monitor HW errors of some servers. Please referices the risk page of auto registration. Access Mode Auto Redfahr If Muti is selected as an access method and connection is established with both (IPMI and Redfsh) the access meth ods is the inter of automatic selection' option in Classic Mode's Environment-Settings Network screee and selected access method will get the pionty for server registration process. User Name/Password [Required]	
Discovery	
A. If BAUC(Ohrephynanagement is disabled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the result page of auto registration. Access Mode • Auto • Redich • IPMI A. If "Auto" Redich • IPMI • Auto • Redich • IPMI A. If "Auto" Redich • IPMI • Auto • Redich • IPMI A. If "Auto" Redich • IPMI • Auto • Redich • IPMI A. If "Auto" Redich • IPMI • Auto • Redich • IPMI M. If "Auto" Redich • IPMI • Auto • IPMI M. If "Auto" Redich • IPMI • Auto • IPMI Management • Auto • IPMI Marciaes • Auto • IPMI User Name/Password [Required] • Auto Discovery • Enable • Auto User Name/Password [Required] • Auto • Auto	
Access Mode • Auto • Refaith • IPMI • If "Auto" is selected as an access method and connection is established with both (IPMI and Redfish) the access methods is, then refer "Priority access method will get the priority for server registration process. User Name/Password [Required] / Discovery • Enable User Name/Password [Required] / Abo • Network Device	
If 'Auto' is selected as an access method and connection is established with both (IPMI and Redfish) the access methods is. bhan refer "Priority access method will get the priority for server registration process. User Name/Password [Required] Intel(R) vPrior(TM) Technology Discovery Enable Disable User Name/Password [Required] /ADD Network Device Network Device	
Des Name/Password [Required]	
User Name/Password [Required] Intel(R) vPio(TM) Technology Discovery Enable Disable User Name/Password [Required] ADD To Network Device To Network Device To Discovery	
Intel(R) vPro(TM) Technology Discovery Enable Disable User Name/Password [Required] Network Device Other Computer Device	
Interrupt very two technology Discovery Enable Disable User Name/Password [Required] Network Device Other Computer Device	
User Name/Password [Requeed]	
User Name/Password [Required] / ADD	
Network Device	
Ciber Computer Deden	
Oner Comparer Device	

(3) Input the following items to search managed components of EM card.

Name	Value
Destination Group	Specify the group to which the EM card will belong. See "1.3.2 Add
	component to Group" for the information about creating group.
Discovery Range	
Discovery Mode	With "IP Address Range Search" selected, the NEC ESMPRO Manager
	searches for the managed components using the IP address range.
	With "Network Address Search" selected, the NEC ESMPRO Manager
	searches for the managed components using the specified network address.
Start Address	When you select "IP Address Range Search" for "Search Mode", specify
End Address	the start IP address and end IP address of the range in which managed
	components are to be searched for.
Network Address	When you select "Network Address Search" for "Search Mode", specify the
Network Mask	network address and network mask of the managed component to be
	searched for.
SNMP (NEC ESMPRO	Agent, iStorage M series)
Discovery	Select "Enable".
SNMP Community	SNMP Community Name which is specified at SNMP Agent running on
Name	the EM card.
WS-Man(NEC ESMPR	O ServerAgentService, ESXi7)
Discovery	Select "Disable"
ESXi (ESXi8)	
Discovery	Select "Disable"
REST API (iStorage V s	eries)
Discovery	Select "Disable"
RAID system managem	ent
Management	Select "Disable"
NEC ExpressUpdate	
Updates via NEC	Select "Disable"
ExpressUpdate Agent	
BMC (EXPRESSSCOP	E Engine)
Discovery	Select "Enable".
Features NEC	Select "Disable"
ExpressUpdate	
Authentication Kev	Enter the password that you set in EM card.
iLO	
Discovery	Select "Disable".
BMC (Other)	
Discovery	Select "Disable"
Intel(R) vPro(TM) Tech	nology
Discovery	Select "Disable".

(4) Click "RUN DISCOVERY" and the discovery for the managed components will start.

to Registration Manual Registra	tion			
Destination Group	root	¢		
Discovery Range				
Discovery Mode	IP Address Range Discov	ery 🔿 Network Address Discovery		
Start Address [Required]	192 . 168 . 8	. 103		
End Address [Required]	192 . 168 . 8	. 104		
Server / Storage				
SNMP (NEC ESMPRO Agent, iStore	age M series)			
Discovery	• Enable 🔿 Disable			
SNMD Community Name Denvice				
SNMP Community Name (Required	public			
WS-Man (NEC ESMPRO ServerAge	ntService, ESXi7 earlier)			
Discovery	🔵 Enable 🝳 Disable			
ESXi (ESXi8)				
Discovery	🔵 Enable 🧿 Disable			
REST API (iStorage V series)				
Discovery	🔵 Enable 🧿 Disable			
RAID system (Universal RAID Utility	y)			
Discovery	🔵 Enable 💿 Disable			
NEC ExpressUpdate (ExpressUpda	ite Agent)			
Discovery	🔵 Enable 🝳 Disable			
BMC(EXPRESSSCOPE Engine)				
Discovery	Enable Disable			
▲ "BMC(EXPRESSSCOPE Engine ADE), BMC(ECO CENTER), BMC(m For cases other than the above an ▲ If BMC(EXPRESSSCOPE Enginervers. Please refer to the result p	t)" is target for EXPRESSSCOPE En- any core server). d "iLO" and "vPro", Please select "B ie) management is disabled, NEC E age of auto registration.	gine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL MC (Other)*. SMPRO Manager cannot monitor HW errors	of some s	
NEC ExpressUpdate	O Enable ○ Disable			
Authentication Key [Required]		ADD		
iLO				
Discovery	🔵 Enable 🔹 Disable			
BMC (Other)				
Discovery	🔵 Enable 🝳 Disable			
Intel(R) vPro(TM) Technology				
Discovery	🔵 Enable 💿 Disable			
Network Device				
Other Computer Device				

When you click the "RUN DISCOVERY", the discovery for components will begin and the "Auto Registration in Progress" screen will be displayed.

SMPRO			About	NEC ESMPRO Manager	lelp Classic Mode	💄 admin 🗝
🕽 Dashboard 📲 Register 📾	Component 🛕 AlertViewer 🕻	🕻 Tools 👻				
Auto Registration	Manual Registration					
			\bigcirc			
	Auto Registration in Progress					
		Discovery Mode	IP Address Range Discovery			
		Start Address	192.168.8.103			
		End Address	192.168.8.104			
			CANCEL			
		▲ Even if switch screens or log or	ut, you can check the progress by opening this screen again.			

(5) If the auto registration is completed, following message will be displayed. Click "OK".



(6) The components registered will be displayed on the "Auto Registration Results" screen.

Clicking the "Name" to open the Classic mode where you can confirm the registered information.

ESMPRO)				About NEC	ESMPRO Manager Help Classic Mode	💄 admin 🗸
🕻 Dashboar	d 📲 Register 📾 Comp	onent 🛕 AlertViewer	💥 Tools 👻				
	Auto Registration Ma	nual Registration					
	Auto Registration Results						
	Entry Count:1item(s)						
	Name	IP Address	Management LAN IP Address 1	Management LAN IP Address 2	Install NEC ExpressUpdate Agent	Contents	
	Default_Chassis_Name 2-EM2	192.168.8.103	192.168.8.103		ExpressUpdate Disable	The component was added.	
				BACK TO COMPONENT LIST CONTINUE R	GISTERING		

Name	Description		
Name	Component name		
IP address	IP address		
Management LAN IP Address 1	IP address of EM Card or Chassis.		
Management LAN IP Address 2	It is not displayed.		
Install NEC ExpressUpdate Agent	ExpressUpdate is enable		
	When "NEC ExpressUpdate(ExpressUpdate Agent)" is		
	enabled, and a component that can be installed with		
	ExpressUpdate Agent is discovered.		
	• ExpressUpdate is disable		
	- "NEC ExpressUpdate(ExpressUpdate Agent)" is disable		
	- "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled,		
	but there is not component that can be installed with		
	ExpressUpdate Agent.		
Contents	• A component has been added.		
	This message will be displayed if the component is		
	successfully registered.		
	 Management Controller management cannot be used. 		
	Hardware monitoring function is unavailable.		
	This message will be displayed when BMC		
	(EXPRESSSCOPE engine)/iLO/BMC (other)/vPro cannot		
	be discovered for a component registered by an OS IP		
	address. If you want to register the Management Controller		
	management function, click the "Name". The connection		
	settings screen in Classic mode will be displayed, so you		
	can perform the registration here.		

TIPS:

• When the EM card is registered by auto registration, the EM card name is set to blade enclosure + "-EM" + EM card number. If you want to change the EM card name, click "Component List" – "name" to start classic mode and click "Setting" -"Connection Setting". Click "edit" to change EM card name.

.....

5.4 Operation of EM card

You can open the screen to check the STATUS lamp and to turn UID lamp on as follows.

- (1) Click "Chassis" from the tree view.
- (2) Click the EM card name on the "Component List".
- (3) Click the EM card parts on the "Chassis MAP" screen.

5.5 CPU Blade Auto Registration

NEC ESMPRO Manager monitors blade slot state of the blade enclosure on which the EM card is installed. If NEC ESMPRO Manager detects new CPU blade installed on the chassis, NEC ESMPRO Manager configures BMC on the CPU blade (managed component) through the EM card. To control the managed component, NEC ESMPRO Manager also registers the managed component and executes "Check Connection".

You should set the item for the BMC configuration and component registration on the NEC ESMPRO Manager on the "Chassis Properties" - "CPU Blade Auto Setting".

See the online help of the NEC ESMPRO Manager for the details of the items.
Chapter6 Setup for the NEC iStorage M Series

6.1 Setup Flow

Setup by the following setup procedure:

- (1) Connect the NEC ESMPRO Manager server and the iStorage.
- (2) Install WebSAM iStorageManager on the management server where NEC ESMPRO Manager has been installed.

IMPORTANT:

- If you choose to install a separately provided WebSAM iStorageManager please note that after installing WebSAM iStorageManager, you should install the iStorage (M series) NEC ESMPRO Manager relative module. And the supported version of WebSAM iStorageManager is Ver12.3 or above.
- **To launch the iSM client (Web GUI) from the WebSAM iStorageManager link, a license for WebSAM iStorageManager is required. Please refer to the "ESMPRO Installation Tool User's Guide" for information about license management.
- (3) Register Storage (iStorage) on WebSAM iStorageManager.

Please click "iSMsetenv" on the NEC ESMPRO Manager to set storage information.

Please refer to the online help for "iSMsetenv" in iStorageManager. Additionally, "iSMsetenv" can only be launched from the browser on the server where NEC ESMPRO Manager and WebSAM iStorageManager are installed.

*If you are using Firefox, please configure the settings to launch the " iSMsetenv " tool. Here are the steps:

- 1. Enter "about:config" in the address bar of Firefox.
 - You may see a warning screen when making advanced configuration changes, but there is no problem, so click "Accept the risk and Continue" to proceed.
- 2. Enter "negotiate" in the filter field.
- 3. Double-click "network.negotiate-auth.trusted-uris".
- 4. Enter the IP address or hostname of NEC ESMPRO Manager. If you are using "localhost" as the hostname, enter "localhost".

(4) Register the managed component on NEC ESMPRO Manager.

Register the Managed Component 6.2

To register the managed component on the NEC ESMPRO Manager, login to the NEC ESMPRO Manager and perform steps in the following order.

If necessary, see "1.3.2 Add component to Group" and add the group to which the managed component will belong.

6.2.1 Register NEC Storage on NEC ESMPRO Manager

Use either of the two methods to register NEC Storage.

Manual Registration

This method requires the operator to directly enter the NEC Storage's information such as the "Floating IP Address" and to perform "Check Connection".

Auto Registration

This method automatically searches the network for managed components and NEC Storage, and registers them.

..... **TIPS:**

- NEC ESMPRO Manager distinguishes the NEC Storage from ordinary managed . component by "Check Connection".
- The managed component name on the NEC ESMPRO Manager is set to the disk array name that is set in iSMClient. You can change the managed component name on "Connection Setting".

6.2.1.1 Manual Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin 🔻
🚯 Dashboard 🐴 Register 🛋 Component 🛕 AlertViewer 🔀 Tools 👻	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Server / Storage" of "Manual Registration".

ESMPRO					A	bout NEC ESMPRO Manager	Help	Classic Mode	🛓 admin 🗸
🔇 Dashboard 📲 Register 🖨	Component 🛕 AlertVi	iewer 💥 Tools	•						
Auto Registration	Manual Registration	>							
Server / Storage	Network Device	Other Compute	r Device Al	ert Only Management					
Component Na	ime [Required]								
Alias									
Destination Gr	oup	root	¢	2					
Common Setti	ng								
OS IP Address	[Required]								
SNMP (NEC ES	SMPRO Agent) / WS-Man /	ESXi / iStorage							
Management		Registration	Unregistration	1					
Management 1	ype C	SNMP (NEC ES WS-Man (NEC I ESXi (ESXi8) REST API (iStor	MPRO Agent, iSI ESMPRO Server/ age V series)	torage M series) AgentService, ESX17 earlier)					
SNMP Commu	nity Name(Get)	public							
SNMP Commu	nity Name(Set)								
RAID system (Universal RAID Utility)								
Management	c	Registration) Unregistration	1					
NEC ExpressU	pdate								
Updates via Ne Agent	C ExpressUpdate	Registration	Unregistration	1					
Updates via M Controller	anagement	Registration) Unregistration	1					
'BMC (EXPRES	SSCOPE Engine)"/"iLO"/"B	MC(Other)"/"vPro"	(Common)						
Management	c	Registration	Unregistration	1					
Management 7	уре 🤇	вмс 🤇	ilo	BMC (Other) vPro					
▲ "BMC(EXP ADE), BMC(EC For cases other	RESSSCOPE Engine)" is tar O CENTER), BMC(many cor r than the above and "iLO" :	rget for EXPRESS re server). and "vPro", Please	SCOPE Engine1/	2/3/3ft/2SP/3SP, EM Card(SIGMABL ther)".					
Authentication	Key [Required]								
'BMC (EXPRES	SSCOPE Engine)"/"iLO"/"Bł	MC(Other)"/"vPro"	(LAN)						
Current IP Add	ress	IP Address 1	IP Address 2						
Failover	c	Enable	Disable						
IP Address 1 [F	Required])					
IP Address 2									
	AD	D							

(3) Input the following items on the "Manual Registration"-"Full Management" view.

Name	Value
Component Name	Specify the NEC Storage name on the NEC ESMPRO Manager.Assign a
	name different from other managed component names. Do not enter a name
	including blank characters. Uppercase characters are distinguished from
	lowercase characters.
Alias	Specify the information about the NEC Storage. Do not enter a name
	including blank characters. Only blank spaces cannot be entered. Also, do
	not enter a name containing a blank character. The space character will be
	characters are distinguished from lowercase characters. Optional
Destination Group	Specify the group to which the NEC Storage will belong
Destination Group	When you add the group to which the managed component will belong see
	"1 3 2 Add component to Group" for the information
Common Setting	1.5.2 Field component to Group for the mornation.
OS IP Address	Enter the Fixed IP address of "Floating IP Address" of the NEC Storage.
SNMP (NEC ESMPRO	Agent) / WS-Man / ESXi / iStorage
Management	Select "Registration".
Management Type	Select "SNMP"
0 11	NEC ESMPRO Agent or iStorage M series is installed on the managed
	component.
	- WS-Man *1, *2
	NEC ESMPRO ServerAgentService or ESXi7 is installed on the
	managed component.
	The operating system of the managed component is VMware ESXi.
	- ESXi (ESXi8)
	- REST API(iStorage V series)
SNMP Community	Enter the "SNMP community name" specified on iSMClient.
Name(Get)	
SNMP Community	Enter the "SNMP community name" specified on iSMClient.
PAID system(Universal	
Management	Select "Unregistration"
NEC ExpressUndate	Select Onlegisliation .
Undates via NEC	Select "Unregistration"
ExpressUpdate Agent	
Updates via	Select "Unregistration".
Management Controller	
"BMC (EXPRESSSCO	PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (Common)
Management	Select "Unregistration".

(4) Click "ADD".

If there is an error in the input content, correct the input content following the message.

0		About NEC ESMPRO Manager He	ip Classic Mode	💄 admin 🕶
oard 📲 Register 📾 Component 🛕 Ale	rtViewer 😤 Tools -			
Auto Registration Manual Registrat	ion			
Server / Storage Network Device	Other Computer Device Alert Only Management			
Component Name [Required]	iStorageM			
Alias				
Destination Group	root 🗢			
Common Setting				
OS IP Address [Required]	10 . 15 . 228 . 146			
SNMP (NEC ESMPRO Agent) / WS-Ma	n / ESXi / iStorage			
Management	• Registration 🔘 Unregistration			
Management Type	SNMP (NEC ESMPRO Agent, IStorage M series) W:-Man (NEC ESMPRO ServerAgentService, ESXI7 earlier) ESXI (ESXI) REST API (IStorage V series)			
SNMP Community Name(Get)	public			
SNMP Community Name(Set)				
RAID system (Universal RAID Utility)				
Management	Registration Unregistration			
NEC ExpressUpdate				
Updates via NEC ExpressUpdate Agent	Registration Unregistration			
"BMC (EXPRESSSCOPE Engine)"/"iL0"	/"BMC(Other)"/"vPro"(Common)			
Management	Registration O Unregistration			

(5) "CHECK CONNECTION" screen is displayed.

Click "CHECK CONNECTION" to start it.

ESMP	80	About NEC ESMPRO Manager	Help Classic Mode	🛔 admin -
🕻 Dashi	aard 🤷 Register 📾 Component 🛕 AlertViewer 🛠 Tools 👻			
	Auto Registration Manual Registration			
	Server / Storage Network Device Other Computer Device Alert Only Management			
	To remotely manage components, please continue to perform check connection.			
	CHECK CONNECTION			

(6) If the "CHECK CONNECTION" is completed, "Connection check results" screen will be displayed.

ESMPRO	About NEC ESMPRO Manager	Help Classic Mode	💄 admin -
🚯 Dashboard - 🎝 Register 🚔 Component 🛕 AlertViewer 💥 Tools 👻			
Auto Registration Manual Registration			
Server / Storage Network Device Other Computer Device Alert Only Management			
Connection check results			
Management Detected Detail			
SNMP (NEC ESMPRO Agent, Detected SNMP (NEC ESMPRO Agent) can be used iStorage M series)	đ.		
BACK TO COMPONENT LIST CONTINUE REGISTERIN	G		

Detected	Detail
Detected	The feature was detected.
	NEC ESMPRO Manager can use the feature to manage the component.
Not Detected	The feature was not detected.
	NEC ESMPRO Manager cannot use the feature to manage the component.
	Check parameters corresponding to the feature.
	Click the "Name" of the component that could not be registered in the
	"Component List". The connection settings screen in Classic mode will be
	displayed. Please check that there are no errors in the entered items. For more
	details, please refer to the online help for NEC ESMPRO Manager.

6.2.1.2 Auto Registration

(1) Click "Register".

ESN	MPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin 🗸	
6	Dashboard 👌 Register) 📾 Component 🛕 AlertViewer 🔀 Tools 👻		
	Component Status	Alert Status	
	The component is not registered.	No alerts are unread.	

(2) Click the "Server / Storage" of "Auto Registration".

		About NEC ESMPRO Manager Help Classic Mode
Register 🛋 Component 🛕 Alert	Viewer 🏋 Tools *	
Registration Min.val Registratio	n	
Destination Group	root •	
Discovery Range		
Discovery Mode	• IP Address Range Discovery • Network Address Discovery	
Start Address [Required]		
End Address [Required]		
Server / Storage		
SNMP (NEC ESMPRO Agent, iStorage	M series)	
Discovery	Enable Disable	
	and the	
Sivine community isame (rectoricut	public	
WS-Man (NEC ESMPRO ServerAgentS	Service, ESXI7 earlier)	
Discovery	Enable Disable	
User Name/Password [Required]	1 ADD	
ESXi (ESXi8)		
Discovery	Enable Disable	
Here Name (Dage of the second	1	
user Name/Password [Required]	7 ADD	
REST API (iStorage V series)		
Discovery	Enable Disable	
User Name/Password [Required]	dov /	
RAID system (Universal RAID Utility)		
Discovery	• Enable Disable	
NEC ExpressUpdate (ExpressUpdate	Agent)	
Discovery	O Enable O Disable	
BMC(EXPRESSSCOPE Engine)		
Discovery	C Enable Disable	
▲ "BMC(EXPRESSSCOPE Engine)" i ADE), BMC(ECO CENTER), BMC(man For cases other than the above and "i ▲ If BMC(EXPRESSSCOPE Engine) ervers. Please refer to the result name	Is target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL y core server). IO' and 'YPPo', Please select 'BMC (Other)". management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some s of antor nexistation.	
NEC ExpressUpdate	• Enable Disable	
Authentication Key [Required]	ADD	
iLO		
Discovery	C Enable Disable	
	EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the	
User Name/Password [Required]	/ ADD	
BMC (Other)		
Discovery	O Enable O Disable	
▲ If BMC(Other)management is dis r to the result name of suito registration	abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please reference	
Access Mode	• Auto Redfish IPMI	
	method and connection is established with both (IPMI and Redfish) the access meth	
ods i.e. then refer 'Priority access mo Network screen and selected access	one at the time of automatic selection" option in Classic Mode's Environment-Settings method will get the priority for server registration process.	
User Name/Password Required	/ ADD	
Intel(R) vPro(TM) Technology	Stankler O Direkter	
Discovery	Chapter U Disable	
User Name/Password [Required]	/ ADD	
Network Device		
Network Device		
Network Device Other Computer Device		

(3) Select "Search Mode" on the "Auto Registration" view and enter following information.

Name	Value
Destination Group	Specify the group to which the NEC Storage will belong. When you add the group to which the managed component will belong, see "1.3.2 Add component to Group" for the information.
Discovery Range	
Discovery Mode	With "IP Address Range Search" selected, the NEC ESMPRO Manager searches for the managed components using the IP address range. With "Network Address Search" selected, the NEC ESMPRO Manager searches for the managed components using the specified network address.
Start Address	When you select "IP Address Range Search" for "Search Mode", specify
End Address	the start IP address and end IP address of the range which includes the NEC Storage's floating IP address.
Network Address	When you select "Network Address Search" for "Search Mode", specify the
Network Mask	network address and network which includes NES Storage's floating IP address.
SNMP (NEC ESMPRO	Agent, iStorage M series)
Discovery	Select "Enable".
SNMP Community	"SNMP Community Name" is the "SNMP Community Name" specified on
Name	iSMClient.
WS-Man(NEC ESMPR	O ServerAgentService, ESXi7)
Discovery	Select "Disable"
ESXi (ESXi8)	
Discovery	Select "Enable" to manage ESXi (ESXi8) of the component. *1,*2
User Name/Password	 Enter username and password for ESXI (ESXI8) communication. The account must be a system administrator of the managed operating system. Click "Add" button and you can add a pair of username and password up to 5. *3 NEC ESMPRO ServerAgentService (Windows) is installed. Enter Username(Local User Accounts)/Password of Windows system Administrator (does not use a user object in Active Directory Domain Services) NEC ESMPRO ServerAgentService (Linux) is installed. Enter root/Password of Linux operating system The operating system of the managed component is VMware ESXi. Enter Username/Password of VMware ESXi Administrator
REST API(iStorage V s	eries)
Discovery	Select "Enable" to manage REST API(iStorage V series) of the component. *1,*2
	 communication. The account must be a system administrator of the managed operating system. Click "Add" button and you can add a pair of username and password up to 5. *3 NEC ESMPRO ServerAgentService (Windows) is installed. Enter Username(Local User Accounts)/Password of Windows system Administrator (does not use a user object in Active Directory Domain Services) NEC ESMPRO ServerAgentService (Linux) is installed. Enter root/Password of Linux operating system The operating system of the managed component is VMware ESXi.
RAID system managem	ent
system managem	

Management	Select "Disable"
NEC ExpressUpdate	
Updates via NEC	Select "Disable"
ExpressUpdate Agent	
BMC (EXPRESSSCOP	E Engine)
Discovery	Select "Disable".
iLO	
Discovery	Select "Disable".
BMC (Other)	
Discovery	Select "Disable".
Intel(R) vPro(TM) Tech	nology
Discovery	Select "Disable".

(4) Click "RUN DISCOVERY".

IPRO			About NEC ESMPRO Manager	Help Classic Mode 💄 admin	n 🕶
ashboard 📲 F	Register 📾 Component 🛕	AlertViewer 💥 Tools 👻			
Auto Re	egistration Manual Regist	ration			
	Destination Group	root	\$		
	Discovery Range				
	Discovery Mode	• IP Address Range Discovery	O Network Address Discovery		
	Start Address [Required]	10 . 15 . 228	. 146		
	End Address [Required]	10 . 15 . 228	. 146		
	Server / Storage				
	SNMP (NEC ESMPRO Agent, iSto	orage M series)			
	Discovery	• Enable O Disable			
	SNMP Community Name <mark>(Requir</mark>	ed] public			
	WS-Man (NEC ESMPRO ServerAd	centService, ESXi7 earlier)			
	Discovery	C Enable O Disable			
	ESXi (ESXi8)				
	Discovery	🔵 Enable 🔹 Disable			
	REST API (iStorage V series)				
	Discovery	Enable Oisable			
	RAID system (Universal RAID Util	ity)			
	Discovery	🔵 Enable 🝳 Disable			
	NEC ExpressUpdate (ExpressUpd	date Agent)			
	Discovery	🔵 Enable 🧿 Disable			
	BMC(EXPRESSSCOPE Engine)				
	Discovery	🔵 Enable 🧿 Disable			
	iLO				
	Discovery	🔵 Enable 🝳 Disable			
	BMC (Other)				
	Discovery	🔿 Enable 💿 Disable			
	Intel(R) vPro(TM) Technology				
	Discovery	🔵 Enable 🝳 Disable			
	Network Device				
	Other Computer Device	· · · · · · · · · · · · · · · · · · ·			

Click "RUN DISCOVERY" to discovery the managed components, and the "Auto Registration in Progress" screen will be displayed.

ESMPRO			About NEC ESMPRO Manage	r Help	Classic Mode	💄 admin 🕇	
🚯 Dashboard 📲 Register 📾 Component 🛕 AlertViewe	er 💥 Tools 🔻						
Auto Registration Manual Registration							
		\bigcap					
	Auto Do	ristuation in Duamaga					
	Auto Re	gistration in Progress					
	Discovery Mode	IP Address Range Discovery					
	Start Address	10.15.228.146					
	End Address	10.15.228.146					
		CANCEL					
	▲ Even if switch screens or log o	ut, you can check the progress by opening this screen	i again.				
							_

(5) If the "Auto Registration" is completed, following message will be displayed. Click "OK".

localhost:21120 の内容
2023/10/17 15:39:49 Obtaining/changing of the component name was completed, and the automatic registration was successful.
ОК

(6) The components registered will be displayed on the "Auto Registration Results" screen.

Clicking the "Name" to open the Classic mode, where you can confirm the registered information.

ESM	PRO					About NEC ESM	IPRO Manager Help Classic Mode 💄 admin -
🕻 Das	hboard	📲 Register 🛛 📾 Co	mponent 🔺 AlertViev	ver 💥 Tools 👻			
	AL	uto Registration	Manual Registration				
					Auto Registration Resul	ts	
	E	Entry Count:1item(s)					
		Name	IP Address	Management LAN IP Address 1	Management LAN IP Address 2	Install NEC ExpressUpdate Agent	Contents
		2000743A65EA5233	10.15.228.146			ExpressUpdate Disable	The component was added. Management Controller management can not be used. Hardware monitoring functio n is unavailable.
				BACK	TO COMPONENT LIST CONTINUE	REGISTERING	

Name	Description				
Name	Component name				
IP address	IP address				
Management LAN IP Address 1 IP address of BMC (EXPRESSSCOPE Engine) /iI					
	(Other) /vPro)				
Management LAN IP Address 2	It is not displayed.				
Install NEC ExpressUpdate Agent	ExpressUpdate is disable				
	This function is not supported.				
Contents	• The component has been added.				
	This message is displayed when a component has been				
	successfully registered.				

TIPS:

Refer to the "iStorageManager Manual Guide" (IS901) for the overview of iStorage

and iSM client and the related manuals of iStorage and iSM client.

Chapter7 Setup for the NEC iStorage V Series

7.1 Setup Flow

Setup by the following setup procedure:

- (1) Connect the NEC ESMPRO Manager server and the iStorage.
- (2) Perform the necessary setup to register the iStorage V series.

Refer to the "iStorage(V series) ESMPRO integration module" and configure it to be monitored from the ESMPRO/ServerManager. ESMPRO integration is a function that enables monitoring of the iStorage V series from ESMPRO/ServerManager.

(3) Register the managed component on NEC ESMPRO Manager.

7.2 Register the Managed Component

To register the managed component on the NEC ESMPRO Manager, login to the NEC ESMPRO Manager and perform steps in the following order.

If necessary, see "1.3.2 Add component to Group" and add the group to which the managed component will belong.

7.2.1 Register iStorage on NEC ESMPRO Manager

Use either of the two methods to register NEC Storage.

Manual Registration

This method requires the operator to directly enter the NEC Storage's information such as the "Floating IP Address" and to perform "Check Connection".

Auto Registration

This method automatically searches the network for managed components and NEC Storage, and registers them.

7.2.1.1 Manual Registration

(1) Click "Register".

About NEC ESMPRO Manager Help Classic Mode 🛓 admin 🔻
Alert Status
No alerts are unread.

(2) Click the "Server / Storage" of "Manual Registration".

ESMPRO		About NEC ESMPRO Manager	Help Classic Mode	💄 admin 🕶
🕼 Dashboard 📲 Register 📾 Compone	ent 🛦 AlertViewer 💥 Tools 👻			
Auto Registration Manua	al Registration			
Server / Storage Netwo	ork Device Other Computer Device Alert Only Management			
Component Name [Requir	ed]			
Alias				
Destination Group	root +			
Common Setting				
OS IP Address [Required]				
SNMP (NEC ESMPRO Age	nt) / WS-Man / ESXi / iStorage			
Management	• Registration O Unregistration			
Management Type	SNMP (NEC ESMPRO Agent, iStorage M series) WS-Man (NEC ESMPRO ServerAgentService, ESXi7 earlier) ESXi (ESXI8) REST API (iStorage V series)			
SNMP Community Name(Get) public			
SNMP Community Name(Set)			
RAID system (Universal R/	AID Utility)			
Management	• Registration 🔿 Unregistration			
NEC ExpressUpdate				
Updates via NEC Expressl Agent	Jpdate ORegistration Unregistration			
Updates via Management Controller	• Registration O Unregistration			
'BMC (EXPRESSSCOPE Er	ngine)"/"iLO"/"BMC(Other)"/"vPro"(Common)			
Management	• Registration 🔿 Unregistration			
Management Type	BMC ILO BMC (Other) VPro			
▲ "BMC(EXPRESSSCOP ADE), BMC(ECO CENTER) For cases other than the a	'E Engine)' is target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL , BMC(many core server). bove and "iLO" and "vPro", Please select "BMC (Other)".			
Authentication Key [Requi	red]			
'BMC (EXPRESSSCOPE Er	ngine)"/"ILO"/"BMC(Other)"/"vPro"(LAN)			
Current IP Address	O IP Address 1 O IP Address 2			
Failover	• Enable Obisable			
IP Address 1 [Required]				
IP Address 2				
	ADD			

Name	Value	
Component Name	Specify the NEC Storage name on the NEC ESMPRO Manager.Assign a	
	name different from other managed component names. Do not enter a name	
	including blank characters. Uppercase characters are distinguished from	
	lowercase characters.	
Alias	Specify the information about the NEC Storage. Do not enter a name	
	including blank characters. Only blank spaces cannot be entered. Also, do	
	not enter a name containing a blank character. The space character will be	
	removed if the half space is contained before and after the string. Uppercase	
	characters are distinguished from lowercase characters. Optional.	
Destination Group	Specify the group to which the NEC Storage will belong.	
	When you add the group to which the managed component will belong, see	
	"1.3.2 Add component to Group" for the information.	
SNMP (NEC ESMPRO	Agent) / WS-Man / ESXi / iStorage	
Management	Select "Registration".	
Management Type	Select "REST API (iStorage V series)"	
IP Address 1	IP address of component CTL1	
IP Address 2	IP address of component CTL2	
User Name	Enter username and password for getting iStorage V series information by	
Password	REST API.	

(3) Input the following items on the "Manual Registration"-"Full Management" view.

(4) Click "ADD".

If there is an error in the input content, correct the input content following the message.

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin 👻
🕏 Dashboard 📲 Register 🚔 Component 🛕 Aler	tViewer 💥 Tools 🔻
Auto Registration Manual Registratio	n
Server / Storage Network Device	Other Computer Device Alert Only Management
Component Name [Required]	iStorageV
Alias	
Destination Group	root ¢
SNMP (NEC ESMPRO Agent) / WS-Man	ı / ESXi / iStorage
Management	• Registration O Unregistration
Management Type	 SNMP (NEC ESMPRO Agent, iStorage M series) WS-Man (NEC ESMPRO ServerAgentService, ESXI7 earlier) ESXI (ESXi8) REST API (iStorage V series)
IP Address 1 [Required]	10 . 15 . 228 . 121
IP Address 2	10 . 15 . 228 . 122
User Name/Password [Required]	maintenance / ······
	ADD

(5) If the "CHECK CONNECTION" is completed, "Connection check results" screen will be displayed.

ESMP & Dash	RO board 📲 Register 🚔	Component 🛕 AlertVie	ewer 💥 Tools -							About NEC E	SMPRO Manag	er Help	Classic Mode	🛓 adr	nin •
	Auto Registration	Manual Registration													
	Server / Storage	Network Device	Other Computer Device	Alert (Only Manage	ment ection ch	eck res	sults							
			Management REST API (IStorage V serie:	25)	Detected	Detail	eries can be	used.							
				BACK	TO COMPONEN	л цят	CONTI	INUE REGISTER	ING						

Detected	Detail
Detected	The feature was detected.
	NEC ESMPRO Manager can use the feature to manage the component.
Not Detected	The feature was not detected.
	NEC ESMPRO Manager cannot use the feature to manage the component.
	Clicking on "CONTINUE REGISTERING" to confirm the inputted items.
	Please check that there are no errors in the entered items.

7.2.1.2 Auto Registration

(1) Click "Register".

ES	MPRO	About NEC ESMPRO Manager Help Classic Mode 💄 admin 🕶	
¢	Dashboard 🚯 Register 🔥 Component 🛕 AlertViewer 💥 Tools 👻		
	Component Status	Alert Status	
	The component is not registered.	No alerts are unread.	

(2) Click the "Server / Storage" of "Auto Registration".

Register 🛋 Component 🛕 AlertV	Viewer 💥 Tools *	About NEC ESMIPRO Manager Help Classic Mode
egistration Manual Registration		
Destination Group	root a	
Discovery Ranne	1001	
Discovery Mode	IP Address Bance Discovery Network Address Discovery	
Class Address Description		
Start Address [Required]		
End Address [Required]		
C Server / Storage		
SNMP (NEC ESMPRO Agent (Storage	M series)	
Discovery	• Fnable O Disable	
SNMP Community Name [Required]	public	
WS-Man (NEC ESMPRO ServerAgentSe	ervice, ESXi7 earlier)	
Discovery	• Enable 🔿 Disable	
User Name/Password [Required]	/ ADD	
ESXI (ESXIB)		
Discovery	O Enable 🔘 Disable	
user Name/Password [Required]	7 ADD	
REST API (iStorage V series)		
Discovery	• Enable O Disable	
User Name/Password [Required]	004	
Contraction Produced		
AID system (Universal RAID Utility)		
Discovery	Enable Disable	
IEC ExpressUpdate (ExpressUpdate A	igent)	
Discovery	C Enable O Disable	
Dimension Readably PE Engines		
ADE), BMC(ECO CENTER), BMC(many For cases other than the above and "iL	core serve). .0° and "vPro", Please select "BMC (Other)". . management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some s of auto registration.	
NEC ExpressUpdate	C Enable Disable	
Authentication Key [Required]	ADD	
10		
Discovery	C Eastela Dirable	
unaudivery	Criavite Utisable	
 If iLO management is disabled, NE result page of auto registration. 	EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the	
User Name/Password [Required]	/ ADD	
BMC (Other)		
Discovery	C Enable O Disable	
A If BMC(Other)management is disa	abled. NEC ESMPRO Manager cannot monitor HW errors of some servers. Diagon refe	
r to the result page of auto registration).	
Access Mode	Auto Redfish IPMI	
	method and connection is established with both (IPMI and Redfish) the access meth de at the time of automatic selection" option in Classic Mode's Environment-Settings	
Network screen and selected access n	method will get the priority for server registration process.	
User Name/Password [Required]	/ ADD	
Intel(R) vPro(TM) Technology		
Discovery	Chable U Disable	
	Z ADD	
User Name/Password [Required]		
User Name/Password [Required]		
User Name/Password [Required]		
User Name/Password [Required] Network Device Other Computer Device		
User Name/Password (Required) The Network Device Other Computer Device		

(3) Select "Search Mode" on the "Auto Registration" view and enter following information.

Name	Value
Destination Group	Specify the group to which the NEC Storage will belong. When you add
	the group to which the managed component will belong, see "1.3.2 Add
	component to Group" for the information.
Discovery Range	
Discovery Mode	With "IP Address Range Search" selected, the NEC ESMPRO Manager
	searches for the managed components using the IP address range.
	With "Network Address Search" selected, the NEC ESMPRO Manager
	searches for the managed components using the specified network
C	address.
Start Address	When you select "IP Address Range Search" for "Search Mode", specify
End Address	the start IP address and end IP address of the range which includes the NEC Storage's floating IP address
Network Address	When you select "Network Address Search" for "Search Mode" specify the
Network Mask	network address and network which includes NES Storage's floating IP
THE WORK MUSIC	address.
SNMP (NEC ESMPRO	Agent, iStorage M series)
Discovery	Select "Disable"
WS-Man(NEC ESMPR	O ServerAgentService, ESXi7)
Discovery	Select "Disable"
ESXi (ESXi8)	
Discovery	Select "Disable"
REST API(iStorage V set	eries)
Discovery	Select "Enable" to manage REST API(iStorage V series) of the component. *1
User Name/Password	Enter username and password for getting iStorage V series information by
	REST API.
	Click "Add" button and you can add a pair of username and password up
	to 5. *1
RAID system managem	ent
Management	Select "Disable"
NEC ExpressUpdate	
Updates via NEC	Select "Disable"
ExpressUpdate Agent	
BMC (EXPRESSSCOP	E Engine)
Discovery	Select "Disable".
iLO	
Discovery	Select "Disable".
BMC (Other)	
Discovery	Select "Disable".
Intel(R) vPro(TM) Tech	nology
Discovery	Select "Disable".

СНЕСК:

*1 On "Settings" - "Environment" - "Auto Registration Setting List" screen, you can manage a list of username/password and authentication key. All entries in the list are used for auto registration every time.

(4) Click "RUN DISCOVERY".

ESMPRO		About NEC ESMPRO Manager	Help Classic	Mode 💄 admin 🗸
🚯 Dashboard 📲 Register 📾 Component 🛕 Alert	Viewer 💥 Tools 👻			
Auto Registration Manual Registratio	n			
Destination Group	root	\$		
Discovery Range				
Discovery Mode	IP Address Range Discovery	Network Address Discovery		
Start Address [Required]	10 15 228	121		
End Address [Required]	10 . 15 . 228	. 121		
Server / Storage				
SNMP (NEC ESMPRO Agent, iStorage	M series)			
Discovery	O Enable O Disable			
WS-Man (NEC ESMPRO ServerAcents	ervice ESXi7 earlier)			
Discovery	Enable Disable			
biobicity				
ESXi (ESXi8)	0 - ···			
Discovery	O Enable O Disable			
REST API (iStorage V series)				
Discovery	• Enable O Disable			
User Name/Password [Required]	maintenance / ·····	ADD		
RAID system (Universal RAID Utility)				
Discovery	O Enable O Disable			
NEC ExpressUpdate (ExpressUpdate /	Agent)			
Discovery	Enable ODisable			
BMC(EXPRESSSCOPE Engine)				
Discovery	Enable O Disable			
iLO				
Discovery	Enable O Disable			
BMC (Other)				
Discovery	O Enable O Disable			
Intel(R) vPro(TM) Technology				
Discovery	O Enable O Disable			
Network Device				
O Other Computer Device				
	RUN DISCOVERY			

Click "RUN DISCOVERY" to discovery the managed components, and the "Auto Registration in Progress" screen will be displayed.

ESM	PRO				About NEC ESMPRO Manager	Help Classic Mode	💄 admin 🕶
🕒 Das	shboard 📲 Register 📾 Compon	nent 🛕 AlertViewer	🛠 Tools 👻				
							_
	Auto Registration Manu	ual Registration					
				$\left(\right)$			
				\smile			
			Auto Reg	gistration in Progress			
			Discovery Mode	IP Address Range Discovery			
			Start Address	10.15.228.121			
			End Address	10.15.228.122			
				CANCEL			
			${\ensuremath{\mathbb A}}$ Even if switch screens or log or	ut, you can check the progress by opening this screen ag	ain.		

(5) If the "Auto Registration" is completed, following message will be displayed. Click "OK".



(6) The components registered will be displayed on the "Auto Registration Results" screen.

ESM	PRO				About NEC E	SMPRO Manager Help Classic Mode	🛓 admin 🕶
🖨 Das	hboard 📲 Register 📾	Component 🔺 AlertV	iewer 💥 Tools 🔻				
	Auto Registration	Manual Registration					
				Auto Registration Res	ults		
	Entry Count:1item	(s)					
	Name	IP Address	Management LAN IP Address 1	Management LAN IP Address 2	Install NEC ExpressUpdate Agent	Contents	
	iStorageV		10.15.228.121	10.15.228.122	ExpressUpdate Disable	The component was added.	
			BACK	TO COMPONENT LIST CONTIN	UE REGISTERING		

Name	Description
Name	Component name
IP address	It is not displayed.
Management LAN IP Address 1	IP address of controller1(CTL1)
Management LAN IP Address 2	IP address of controller2(CTL1)
Install NEC ExpressUpdate Agent	ExpressUpdate is disable
	This function is not supported.
Contents	• The component has been added.
	This message is displayed when a component has been
	successfully registered.

TIPS:

 When "Auto Register", the "Name" of "Component List" will be "iStorageV". The following components will be named "iStorageV + number". If you want to change the name, click the "Name" in the "Component List" to launch Classic mode, and then click "Setting" -> "Connection Setting" -> "Edit" to change component name.

7.2.1.3 Auto Registration Setting

Before executing auto registration, User Name/Password and Authentication Key can be registered up to 5. For more details, please refer to "1.3.3.3 Auto Registration Setting".

Chapter8 Setup for the Managed Component based on vPro

8.1 Setup Flow

Setup by the following setup procedures:

- (1) Connect the management PC on which NEC ESMPRO Manager is installed and the managed component based on vPro on the same network.
- (2) Configure iAMT on the managed component based on vPro.
- (3) Register the managed component based on vPro on NEC ESMPRO Manager.

8.2 Configure iAMT on the Managed Component

Turn the managed component on.

Press <Ctrl+P> immediately after the component based on vPro displays the message prompting you to press the key.

Main menu of the iAMT configuration is displayed.

Please enter the password to configure the iAMT.

TIPS:

- The NEC ESMPRO Manager can manage the vPro including the iAMT firmware version 6.0 and later.
- The default user name and password are both "admin".
- The iAMT configuration method may depend on the iAMT firmware version. Refer to the website for detail configuration information and configure iAMT. The following is an example of the website.

Please note that this URL is subject to change without notice.

http://software.intel.com/en-us/articles/intel-active-management-technology-intel-amt-software-development-kit-sdk-start-here-guide/

"Performing Manual Setup (from Release 6.0)" or "Manually Configuring an Intel AMT 7.0" of "AMT7.0 Start Here Guide"

8.3 Register the managed component on NEC ESMPRO Manager

To register the managed component on the NEC ESMPRO Manager, login to the NEC ESMPRO Manager and perform steps in the following order.

If necessary, see "1.3.2 Add component to Group" and add the group to which the managed component will belong.

8.3.1 Register the Managed Component

Use either of following two methods to register the managed component.

Manual Registration

This method requires the operator to directly enter the managed component's information such as the IP address of the vPro and to perform "Check Connection".

Auto Registration

This method automatically searches the network for managed components that are not registered yet on the NEC ESMPRO Manager and registers them.

8.3.1.1 Manual Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin •
	C
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Server / Storage" of "Manual Registration".

ESMPRO		About NEC ESMPRO Manager Help Classic Mode 🛓 admin 🕶
🚯 Dashboard	-🖞 Register 📾 Component 🛕 Ale	ertViewer 💥 Tools 🔻
Auto	Registratio Manual Registratio	nc
S	erver / Storage Network Device	Other Computer Device Alert Only Management
	Component Name [Required]	
	Alias	
	Destination Group	root ÷
	Common Setting	
	OS IP Address [Required]	
	SNMP (NEC ESMPRO Agent) / WS-Man	/ ESXi / iStorage
	Management	• Registration O Unregistration
	Management Type	 SNMP (NEC ESMPRO Agent, iStorage M series) WS-Man (NEC ESMPRO ServerAgentService, ESXi7 earlier) ESXi (ESXi8) REST API (IStorage V series)
	SNMP Community Name(Get)	public
	SNMP Community Name(Set)	
	RAID system (Universal RAID Utility)	
	Management	• Registration 🔾 Unregistration
	NEC ExpressUpdate	
	Updates via NEC ExpressUpdate Agent	• Registration O Unregistration
	Updates via Management Controller	• Registration 🔿 Unregistration
	"BMC (EXPRESSSCOPE Engine)"/"iL0"/"	"BMC(Other)"/"vPro"(Common)
	Management	• Registration O Unregistration
	Management Type	BMC Other) VPro
	▲ "BMC(EXPRESSSCOPE Engine)" is ADE), BMC(ECO CENTER), BMC(many of For cases other than the above and "iLC	target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL core server). 0° and "vPro", Please select "BMC (Other)".
	Authentication Key [Required]	
	"BMC (EXPRESSSCOPE Engine)"/"iLO"/"	"BMC(Other)"/"vPro"(LAN)
	Current IP Address	• IP Address 1 IP Address 2
	Failover	• Enable O Isable
	IP Address 1 [Required]	
	IP Address 2	
		ADD

(3) Input the following items.

Name	Value
Component Name	Specify the name of the managed component on NEC ESMPRO Manager.
Ĩ	Assign a name different from other managed component names. Do not
	enter a name including blank characters. Uppercase characters are
	distinguished from lowercase characters.
Alias	Specify the information about the managed component. Do not enter a
	name including blank characters. Only blank characters cannot be entered.
	Also, please do not enter a name containing blank characters. The blank
	characters will be removed if there are half-width blank characters before
	or after the string. Uppercase characters are distinguished from lowercase
	characters. Optional.
Destination Group	Specify the group to which the managed component will belong. See "1.3.2
1	Add component to Group" for the information about creating group.
Common Setting	
OS IP Address	Specify the OS IP Address of the managed component.
SNMP (NEC ESMPRO	Agent) / WS-Man / ESXi / iStorage
Management	Select "Registration" to manage the system of the component.
Management Type	Select a management type of the managed component.
8	- SNMP *1
	NEC ESMPRO Agent or iStorage M series is installed on the managed
	component.
	- WS-Man *1. *2
	NEC ESMPRO ServerAgentService or ESXi7 is installed on the
	managed component.
	The operating system of the managed component is VM ware ESXi.
	- ESXi (ESXi8)
	- REST API(iStorage V series)
SNMP Community	SNMP Community Name which is specified at SNMP Agent running on
Name(Get)	the managed component.
	It is necessary to get the information, configure, monitor via SNMP
SNMP Community	When you want to set SNMP Community names for Get and Set separately
Name(Set)	on the managed component, specify the SNMP Community name for Set
	in this field by alphanumeric characters.
	If it is not specified, SNMP Community name for Get will be used.
User Name	Enter the password for communication with WS-Man service.
	- NEC ESMPRO ServerAgentService (Windows) is installed.
Password	Enter Username(Local User Accounts)/Password of Windows system
	Administrator
	- NEC ESMPRO ServerAgentService (Linux) is installed.
	Enter root/Password of Linux operating system
Communication	This is displayed only when WS-Man is selected as the management target.
Protocol	Select protocol HTTP/HTTPS for connection WS-Man service. *2
	1
	- NEC ESMPRO ServerAgentService (Windows) is installed.
	If you want to use HTTPS for WS-Man communication with
	ESMPRO/ServerAgentService, refer to Chapter 2, Installation 3.3 HTTPS
	Setting in the ESMPRO/ServerAgentService Installation Guide
	(Windows).
	- NEC ESMPRO ServerAgentService (Linux) is installed.
	Select HTTPS.
Port Number	Enter port number where WS-Man service listens for connection. *3
	1

	- NEC ESMPRO ServerAgentService (Windows) is installed.
	If you want to use HTTP, enter 5985.
	If you want to use HTTPS, enter 5986.
	- NEC ESMPRO ServerAgentService (Linux) is installed.
	Enter 5986
RAID system(Universal	RAID Utility)
Management	Select "Registration" to manage the RAID system of the component.
NEC ExpressUpdate	
Updates via NEC	Select "Registration" to manage the component using NEC ExpressUpdate.
ExpressUpdate Agent	
Updates via	Select "Registration" to manage the component using Management
Management Controller	Controller
"BMC (EXPRESSSCO	PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (Common)
Management	Select "Registration" otherwise NEC ESMPRO Manager may not monitor
_	HW status.
Management Type	Select "vPro".
User Name	Enter the user name for communication with the vPro,
Password	Enter the password for communication with the vPro,
"BMC (EXPRESSSCO	PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN)
IP Address 1	Enter the IP address that is specified on LAN of the iAMT configuration
	for the managed component.

CHECK:

•	*1 If NEC ESMPRO Manager is installed on Linux system, "SNMP" and VMware	
	ESXi server management are not supported.	

 CHECK: *2 If a self-signed certificate is installed on the managed server for HTTPS communication, a setting to allow it is required. Refer to "1.1 Setup Flow" for let it bit for the setting to allow it is required.
detailed information.
CHECK

CHECK:

• *3 Regarding a port number for WS-Man communication, refer to "Appendix C. Port number for WS-Man communication".

(4) Click "ADD".

If there is an error in the input content, correct the input content following the message.

MPRO		About NEC ESMPRO Manager	Help	Classic Mode	💄 admin 🕶
🕻 Dashboard 🛛 📲 Register 📾 Compon	nent 🛕 AlertViewer 💥 Tools 🝷				
Auto Registration Manual Registrat	tion				
Server / Storage Network Device	Other Computer Device Alert	: Only Management			
Component Name [Required]	vPro				
Alias					
Destination Group	root 🗢				
SNMP (NEC ESMPRO Agent) / WS-Ma	an / ESXi / iStorage				
Management	Registration O Unregistration				
RAID system (Universal RAID Utility)					
Management	Registration • Unregistration				
NEC ExpressUpdate					
Updates via NEC ExpressUpdate Agent	Registration • Unregistration				
"BMC (EXPRESSSCOPE Engine)"/"iLO	"/"BMC(Other)"/"vPro"(Common)				
Management	• Registration 🔘 Unregistration				
▲ If BMC / iLO management is disa Please refer to the result page of con	bled, NEC ESMPRO Manager cannot mor nection check.	nitor HW errors of some servers.			
Management Type	O BMC O ilo O	BMC (Other) O vPro			
▲ "BMC(EXPRESSSCOPE Engine)" i ADE), BMC(ECO CENTER), BMC(many For cases other than the above and "i	is target for EXPRESSSCOPE Engine1/2/3 y core server). LO" and "vPro", Please select "BMC (Othe	3/3ft/2SP/3SP, EM Card(SIGMABL श)".			
User Name/Password [Required]	admin / ······				
"BMC (EXPRESSSCOPE Engine)"/"iLO	"/"BMC(Other)"/"vPro"(LAN)				
IP Address 1 [Required]	10 . 15 . 228 .	138			
	ADD				

(5) "CHECK CONNECTION" screen is displayed.

Click "CHECK CONNECTION" to start it.

ESMPRO			About NEC ESMPRO Manager	Help	Classic Mode	💄 admin 🕶
🕻 Dashboard 📲 Register 🚔 (Component 🛕 AlertVi	ewer 🕻 Tools 🔹				
Auto Registration	Manual Registration					
Server / Storage	Network Device	Other Computer Device	Alert Only Management			
			To remotely manage components, please continue to perform check connection.			
			CHECK CONNECTION			

(6) If the "CHECK CONNECTION" is completed, "Connection check results" screen will be displayed.

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 💄 admin	•
🚯 Dashboard 📲 Register 📾 Component 🛕 AlertViewer 💥 Tool		
Auto Registration Manual Registration		
Server / Storage Network Device Other Compu	Alert Only Management	
	Connection check results	
Management	Detected Detail	
VPRO	Detected Intel(R) vPro(TM) Technology can be used.	
	CK TO COMPONENT LIST CONTINUE REGISTERING	

Detected	Detail
Detected	The feature was detected.
	NEC ESMPRO Manager can use the feature to manage the component.
Not Detected	The feature was not detected.
	NEC ESMPRO Manager cannot use the feature to manage the component.
	Check parameters corresponding to the feature.
	Click the "Name" of the component that could not be registered in the
	"Component List". The connection settings screen in Classic mode will be
	displayed. Please check that there are no errors in the entered items. For more
	details, please refer to the online help for NEC ESMPRO Manager.

8.3.1.2 Auto Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 💄 admin 👻	
🕼 Dashboard 🚯 Register 🗧 Component 🔺 AlertViewer 💥 Tools 👻		
Component Status	Alert Status	
The component is not registered.	No alerts are unread.	

(2) Click the "Server / Storage" of "Auto Registration".

ard - Register a Component A	AlertViewer 💥 Tools -
Registration Manual Registration	1
Destination Group	root
Discovery Range	ID Address Bangs Discourse: Natural Address Discourse:
Discovery mode	• IP Address Range Discovery
Start Address (Required)	
End Address [Required]	
Server / Storage	
SNMP (NEC ESMPRO Agent (Storage)	M cariae)
Discovery	Enable Disable
SNMP Community Name [Required]	public
WS-Man (NEC ESMPRO ServerAgentSe	ervice, ESXi7 earlier)
Discovery	• Enable O Disable
User Name/Password [Required]	
ESXI (ESXI8)	
Discovery	• Enable 🔿 Disable
User Name/Password [Required]	/ ADD
REST API (iStorage V series)	
Discovery	Enable Disable
User Name/Password [Required]	/ ADD
RAID system (Universal RAID Utility)	
Discovery	• Enable Disable
NEC ExpressUpdate (ExpressUpdate A	igent)
Discovery	• Enable 🔘 Disable
Discovery BMC(EXPRESSSCOPE Engine)	Enable Disable
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable
Discovery BMC(EXPRESSCOPE Engine) Discovery	Enable Disable Disable Disable Disable Disable Core server). O' and 'yPro', 'Please select 'BMC (Other)'. management in disabled, NEC ESMPRO Manager cannot monitor HW errors of some of auto registration.
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Disable Disable Disable target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SiGMABL core server), O' and 'yPro', Please select 'BMC (Other)': management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of auto registration. Enable Disable
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable target for EXPRESSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL core server), Or and YPO; Plases select TIMC (Other)*; management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of auto registration. Enable Disable ADD
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL cord server). ord server). Enable Disable Enable Disable ADD
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable target for EXPRESSSCOPE Engine 1/2/3/3ft/28P/38P, EM Card(SIGMABL core serve). Gor and YPoy, Please select 'TIMAC (Other)'. management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of auto registration. Enable Disable ADD ADD
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable target for EXPRESSSCOPE Engine 1/2/3/3ft/258/359; EM Card(SIGMABL core serve). Or and YPR/, Please select 'TMAC (Other)'. management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of auto registration. Enable Disable ADD Enable Disable
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable target for EXPRESSSCOPE Engine 1/2/3/3ft/2SP/3SP, EM Card(SIGMABL core server). Or and YPP(> Plass select T0MC (Other)^. management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of auto registration. Enable Disable Enable Disable Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the complexity of t
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable target for EXPRESSSCOPE Engine 1/2/3/3ft/2SP/3SP; EM Card(SIGMABL core server). or and V-Pro; Please select 10MC (Other)*. nanagement is disabled, NEC ESMPRO Manager cannot monitor HW errors of some or auto registration. Enable Disable Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Target for EXPRESSSCOPE Engine 1/2/3/3ft/2SP/3SP; EM Card(SIGMABL core server). ananagement is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of auto registration. Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the COMPARE DISABLE
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable target for EXPRESSSCOPE Engine 1/2/3/3ft/28P/38P; EM Card(SIGMABL core server). ananagement is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of suto registration. Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the
Discovery BMC(EXPRESSSCOPE Engine) BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Enable Disable target for EXPRESSSCOPE Engine 1/2/3/3ft/25P/35P, EM Card(SIGMABL core server). anangement is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of sub registration. Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Enable Disable Target for EXPRESSSCOPE Engine 1/2/3/3ft/25P/35P, EM Card(SIGMABL core server). anangement is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of sub registration. Enable Disable CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th Disable Enable Disable Enable Disable Enable Disable Enable Disable D
Discovery BMC(EXPRESSSCOPE Engine) BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Enable Disable Target for EXPRESSSCOPE Engine 1/2/3/3ft/25P/35P, EM Card(SIGMABL core server). of and '\Pop', Please select 'DMC (Other)'. management is disabled, REC ESMPRO Manager cannot monitor HW errors of some of subn registration. Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C Enable Disable C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C Enable Disable C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C Enable Disable C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C Enable Disable C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C Enable Disable C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C Enable Disable C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th C ESMPRO Manager cannot monitor HW errors of so
Discovery BMC(EXPRESSSCOPE Engine) BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Enable Disable Target for EXPRESSSCOPE Engine 1/2/3/3ft/25P/35P, EM Card(SIGMABL. core server). of and '\Pro', Please select 'DMC (Other)'. management is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of sub registration. Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to th CE ESMPRO MANAGER CE ESMPRO MANAGER CANNOT Refer to th CE ESMPRO MANAGER CE MERO MANAGER CANNOT REFERENCE TO THE CE ESMPRO MANAGER CANNOT REFERENCE TO THE CE ESMPRO MANAGER CANNOT REFERENCE MERO MANAGER CANNOT REFERENCE MERO MANAGER CANNOT REFERENCE MERO MANAGER CANNOT REFERENCE MERO MERO MERO MERO MERO MERO MERO MER
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Interpreter Schedule (SIGMABL Core server). Core server). Enable Disable Enable D
Discovery BMC(EXPRESSSCOPE Engine) BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Enable Disable It arget for EXPRESSSCOPE Engine 1/2/3/3ft/25P/3SP, EM Card(SIGMABL core server). Or and "XPo, 'Please select 'DMC (Other)". Tanagement is disabled, REC ESMPRO Manager cannot monitor HW errors of some of sub registration. Enable Disable
Discovery BMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Enable Disable Interpreter ExPRESSSCOPE Engine 1/2/3/3ft/25P/35P, EM Card(SIGMABL. core server). Or and 'P/Po', 'Please select 'DMC (Other)'. Tanagement is disabled, REC ESMPRO Manager cannot monitor HW errors of some of sub registration. Enable Disable Enable Disable
Discovery Discovery M MC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Enable Disable Interpreter EXPRESSSCOPE Engine 1/2/3/3ft/25P/35P, EM Card(SIGMABL. core server). Or and 'PPo', 'Please salest 'BMC (Other)'. Tanagement is disabled, REC ESMPRO Manager cannot monitor HW errors of some of sub registration. Enable Disable
Discovery DMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Enable Disable traget for EXPRESSSCOPE Engine 1/2/3/3ft/25P/35P, EM Card(SIGMABL. core server). Or and Y-Pro, 'Please select 'DMC (Other)'. nanagement is disabled, NEC ESMPRO Manager cannot monitor HW errors of some of sub registration. Enable Disable
Discovery Discovery M MC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Enable Disable It arget for EXPRESSSCOPE Engine 1/2/3/3ft/25P/35P, EM Card(SIGMABL core server). Or and "XPo," Please select "DMC (Other)". Tanagement is disabled, RCC ESMPRO Manager cannot monitor HW errors of some of sub registration. Enable Disable
Discovery DMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable It arget for EXPRESSSCOPE Engine 1/2/3/3ft/25P/35P, EM Card(SIGMABL. core server). Or and "XPo", Please select "IMC (Other)". Tanagement is disabled, RCC ESMPRO Manager cannot monitor HW errors of some or alor negistration. Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to the for errors of some servers. Please refer to the for errors of some servers. Please refer to the for errors of some servers. Please refer to the for errors of some servers. Please refer for errors of the errors of some servers. Please refer for errors of the errors of the errors of some servers. Please refer for errors
Discovery DMC(EXPRESSSCOPE Engine) Discovery	Enable Disable Enable Disable Interpreter Disable Interpreter Disable Interpreter Disable Enable Disable Enabl
(3) Input the following items to search managed components based on vPro.

-				
Name	Value			
Destination Group	Specify the group to which the managed component will belong. See "1.3.2			
	Add component to Group" for the information about creating group.			
Discovery Range				
Discovery Mode	With "IP Address Range Search" selected, the NEC ESMPRO Manager searches for the managed components using the IP address range. With "Network Address Search" selected, the NEC ESMPRO Manager searches for the managed components using the specified network			
	address.			
Start Address	When you select "IP Address Range Search" for "Search Mode", specify			
End Address	the start IP address and end IP address of the range in which managed			
Lina i nadi obb	components are to be searched for.			
Network Address	When you select "Network Address Search" for "Search Mode", specify the			
Network Mask	network address and network mask of the managed component to be			
	searched for.			
SNMP (NEC ESMPRO	Agent, iStorage M series)			
Discovery	Select "Enable" to manage the system of the component.*1			
SNMP Community	SNMP Community Name which is specified at SNMP Agent running on			
Name	the managed component.			
	It is necessary to get the information, configure, monitor via SNMP			
WS-Man(NEC ESMPR	O ServerAgentService, ESXi7)			
Discovery	Select "Enable" to manage the system of the component. *1,*2, *4			
User Name/Password	Enter username and password for WS-Man communication. The account			
	must be a system administrator of the managed operating system.			
	Click "Add" button and you can add a pair of username and password up			
	to 5. *3			
	- NEC ESMPRO ServerAgentService (Windows) is installed.			
	Enter Username(Local User Accounts)/Password of Windows system			
	Administrator			
	- NEC ESMPRO ServerAgentService (Linux) is installed.			
	Enter root/Password of Linux operating system			
ESXi (ESXi8)				
Discovery	Select "Disable"			
REST API(iStorage V s	eries)			
Discovery	Select "Disable"			
RAID system managem	ent			
Management	Select "Enable" to manage the RAID system of the component.			
NEC ExpressUpdate				
Updates via NEC	Select "Enable" to manage the component using NEC ExpressUpdate.			
ExpressUpdate Agent				
BMC (EXPRESSSCOP	E Engine)			
Discovery	Select "Disable"			
iLO				
Discovery	Select "Disable"			
BMC (Other)				
Discovery	Select "Disable"			
Intel(R) vPro(TM) Tech	nology			
Discovery	Select "Enable"			
User Name/Password	Enter username and password for communication with the vPro, Clicking "Add" button, you can enter up to 5 pairs of username and password. *3			

CHECK:
• *1 If NEC ESMPRO Manager is installed on Linux system "SNMP" and VMware
The result of Manager is instance of Elinex system, Styler and Virware
ESX1 management are not supported.
CHECK:
• *2 If a self signed certificate is installed on the managed server for HTTPS
2 If a sen-signed centreate is instance on the managed server for fifther
communication, a setting to allow it is required. Refer to "1.1 Setup Flow" for
detailed information.
CHECK:
• *3 On "Settings" - "Environment" - "Auto Registration Setting List" screen, you can
manage a list of username/password and authentication key. All entries in the list are
used for auto registration every time
CHECK:
• *4 If you want to use HTTPS for WS-MAN communication with
ESMPRO/ServerAgentService refer to Chanter 2 Installation 3.3 HTTPS Setting
in the FOMDDO (Semicra A sended Combined Landbold Z), instantation 5.5, in the Sociality
in the ESMIPRO/ServerAgentService installation Guide (Windows).

(4) Click "RUN DISCOVERY".

Destination Group	root 🗢
Discovery Range	
Discovery Mode	IP Address Range Discovery Network Address Discovery
Start Address [Required]	10 . 15 . 228 . 138
End Address [Required]	10 . 15 . 225 . 138
Server / Storage	
SNMP (NEC ESMPRO Agent, iStorage	a M series)
Discovery	C Enable O Disable
WS-Man (NEC ESMPRO ServerAgent	Service, ESXi7 earlier)
Discovery	C Enable • Disable
ESXi (ESXi8)	
Discovery	Enable O Disable
REST API (iStorage V series)	
Discovery	Enable O Disable
PAID evetem (Universal PAID Utility)	
Discovery	C Enable • Disable
NEC ExpressUpdate (ExpressUpdate	Agent)
Discovery	C Enable O Disable
BMC(EXPRESSSCOPE Engine)	
Discovery	Enable O Disable
iLO	
Discovery	C Enable O Disable
BMC (Other)	
Discovery	C Enable • Disable
Intel(R) vPro(TM) Technology	
Discovery	• Enable 🔿 Disable
User Name/Password <mark>[Required]</mark>	admin / ADD
Network Device	

CHECK: When you click the "RUN DISCOVERY", you may see a message "The search cannot be started.". If you have enabled "WS-Man Discovery", please check whether a "Self Signed Certificate" is allowed in section "1.3.1 Environment setting".

When you click the "RUN DISCOVERY", the discovery for components will begin and the "Auto Registration in Progress" screen will be displayed.

ESMPRO		About NEC ESMPRO Manager Help Classic Mode 🛓 admin -
🚯 Dashboard 📲 Register 🚔 Component 🛕	AlertViewer 💥 Tools 🔻	
Auto Registration Manual Regis	stration	
		$\overline{}$
	Auto Re	gistration in Progress
	Discovery Mode	IP Address Range Discovery
	Start Address	10.15.228.138
	End Address	10.15.228.138
		CANCEL
	${\ensuremath{\mathbb A}}$ Even if switch screens or log o	ut, you can check the progress by opening this screen again.

(5) If the "Auto Registration" is completed, following message will be displayed. Click "OK".



(6) The components registered will be displayed on "Auto Registration Results".

Clicking the "name" will open the Classic mode, where you can confirm the registered information.

ESMPRO						About NEC ESMPRO	Manager Help Classic Mode	💄 admin 🕶
C Dashboard	l -🛅 Register 📾 C	Component 🕰 Alert	Viewer 🎘 Tools 🔻					
4	Auto Registration	Manual Registratio	n					
				Auto Registratio	on Resul	ts		
	Entry Count: 1item/e	A						
	Entry Count. Memos	9						
	Name	IP Address	Management LAN IP Address 1	Management LAN IP A	ddress 2	Install NEC ExpressUpdate Agent	Contents	
	ManagementContr oller		10.15.228.124			ExpressUpdate Disable	The component was added.	
			BACK T	COMPONENT LIST	CONTINU	EREGISTERING		

Name	Description
Name	Component name
IP address	IP address
Management LAN IP Address 1	IP address of BMC (EXPRESSSCOPE Engine) /iLO/BMC
	(Other) /vPro)
Management LAN IP Address 2	It is not displayed.
Install NEC ExpressUpdate Agent	ExpressUpdate is enable
	When "NEC ExpressUpdate(ExpressUpdate Agent)" is
	enabled, and a component that can be installed with
	ExpressUpdate Agent is discovered.
	• ExpressUpdate is disable
	- "NEC ExpressUpdate(ExpressUpdate Agent)" is disable
	- "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled,
	but there is not component that can be installed with
	ExpressUpdate Agent.
Contents	• A component has been added.
	This message will be displayed if the component is
	successfully registered.
	• Management Controller management cannot be used.
	Hardware monitoring function is unavailable.
	This message will be displayed when BMC
	(EXPRESSSCOPE engine)/iLO/BMC (other)/vPro
	OS ID address. If you want to register the Management
	Controller management function click the "Name" The
	connection settings screen in Classic mode will be
	displayed so you can perform the registration here
	displayed, so you can perform the registration here.

TIPS:

 If the system management cannot discover the managed component name, the "Name" of "Component List" will be "ManagementController".
 The following components will be named "ManagementController + number".
 If you want to change the name, click the "Name" in the "Component List" to launch Classic mode, and then click "Setting" -> "Connection Setting" ->"Edit" to change component name.

.....

8.3.1.3 Auto Registration Setting

Before executing auto registration, User Name/Password and Authentication Key can be registered up to 5. For more details, please refer to "1.3.3.3 Auto Registration Setting".

Chapter9 Setup for NEC Scalable Modular Server DX2000

9.1 Overview

The NEC ESMPRO Manager can manage following modules of NEC Scalable Modular Server DX2000:

Server Module

NEC ESMPRO Manager manages each server module on the enclosure as same as the server which has integrates EXPRESSSCOPE Engine 3.

CSC Module

NEC ESMPRO Manager collects the following information of the enclosure by managing the CSC module.

- -- STATUS lamp:
- You can monitor the status of the whole enclosure.
- -- Constitution information:
 - You can monitor each sensor status (fan, voltage, temperature, etc.) in the enclosure.
- -- Power measurement:

You can measure the power consumption of the whole enclosure.

Network Switch Module

NEC ESMPRO Manager collects the following information of the Network Switch by managing the Network Switch module.

- -- Constitution information:
- You can monitor each sensor status (voltage, temperature.) in the Network Switch.
- -- Power measurement:

You can measure the power consumption of the Network Switch.

- CHECK:
 - When registering CSC Module, Network Switch Module is registered automatically. Network Switch Module can not be registered individually.
- Network Switch Module and CSC Module are deleted together as related component. When Network Switch Module is registered, it is not possible to delete Network Switch Module and CSC Module separately.

Switch Module and CSC Module separately.

Setup Flow 9.2

Setup by the following setup procedures:

- (1) Connect the management PC on which NEC ESMPRO Manager is installed and the managed component on the same network.
- (2) Configure BMC on the managed component to enable ESMPRO Management.

(3) Register the managed component on NEC ESMPRO Manager.

СНЕСК:

- Refer to "Chapter1 Setup for Managed Component in which EXPRESSSCOPE • Engine 3 is integrated".
- You can configure CSC module only with EXPRESSSCOPE Engine 3 Web Console. Refer "1.2.1Configuration with EXPRESSSCOPE Engine 3 WebConsole" and the

user's guide for the NEC Scalable Modular Server DX2000.

Chapter10 Setup for the VMware ESXi server

10.1 Setup Flow

Setup by the following setup procedures:

(1) Connect the management PC on which NEC ESMPRO Manager is installed and the VMware ESXi server as a managed component on the same network.

IMPORTANT:	
Regarding making the WBEM service effective.	
On a new install of VMware ESXi, WBEM services may be disabled by default. Yo	u
can check the status of the WBEM service with the following command:	
# esxcli system wbem get	
Enable: false Disabled Enable: true Enabled	
So you will need to use the following command to enable WBEM services.	
# esxcli system wbem setenable true	
(*) If you installed SMI-S provider, WBEM services are enabled. So you don't nee	d
to use this command.	
(*)This command is not required on FT server. Regarding the settings for	r
WBEM(WS-MAN) service on FT server, refer to "7. NEC ESMPRO" of Chapter	3
in Maintenance Guide (VMware) for FT server.	
• Set-up for stebd service restart	
stebd service starts in the state to which CIM Indication can't be transmitted.	
we confirmed that this issue is improved by restarting sicod service.	_
To manage the KAID System by NEC ESMPRO Manager, please insert the followin	g
(sta/init d/afahd watchdog restart	
Stebd service will restarts automatically	
Stebu service will restarts automatically.	
Notes on Service Location Protocol Service Disabled Service	
For the release of VMware ESXi 7.0 Update 2c or later, the SLP service is disable	d
by default.	
If the SLP service is disabled, new VMware ESXi server cannot be monitored an	d
connected.	
If NEC ESMPRO Manager registers VMware ESXi server and performs connection	n
checks as a monitored server, the SLP service must be running and firewall settings	5.
To perform monitoring registration and connection checking of new VMware ESX	ï
server, follow these steps:	
1. Start SLP service on an ESXi host.	
Configure firewalls and enable SLP services and start SLP services.	
Perform the Solution "To remove the perform the perform the following steps:"	
of the following knowledge information.	
How to Disable/Enable the SLP Service on VMware ESXi.	
https://kb.vmware.com/s/article/76372	
2. Register a new ESXi server as a monitored server with NEC ESMPRO Manage	r
and perform connection checks.	

- (2) Configure the management controller on VMware ESXi server if you want to manage the management controller.
- (3) Register VMware ESXi server as a managed component on NEC ESMPRO Manager.

10.2 Configure the management controller on the Managed Component

Configure the management controller on the VMware ESXi server if you want to manage the management controller.

In case that VMware ESXi server in which EXPRESSSCOPE ENGINE3 is integrated: See 1.2Configure BMC on Managed Component.

In case that VMware ESXi server in which a BMC excluding EXPRESSSCOPE ENGINE3 is integrated: See 2.2Configure BMC on Managed Component (for LAN connection).

TIPS:

• To check the BMC type of the managed component, see Appendix D. Managed Components Summary

In case that VMware ESXi server in which iLO is integrated:

See 3.2 Configure iLO on Managed Component.

10.3 Register the managed component on NEC ESMPRO Manager

To register the managed component on the NEC ESMPRO Manager, login to the NEC ESMPRO Manager and perform in the following order:

If necessary, see "1.3.2 Add component to Group" and add the group to which the managed component will belong.

10.3.1 Set the Environment

When using VMware ESXi in the following environment, set the "Self Signed Certificate" to "Allowed" on "Network" tab of "Environment".

Please refer to "1.3.1 Environment setting" for the detail.

10.3.2 Register the Managed Component

Use either of following two methods to register the managed component.

Manual Registration

This method requires the operator to directly enter the VMware ESXi server's information such as the IP address.

Auto Registration

This method automatically searches the network for VMware ESXi servers and managed components that are not registered yet on the NEC ESMPRO Manager and registers them.

10.3.2.1 Manual Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin •
😫 Dashboard - Register 🖨 Component 🛕 AlertViewer 💥 Tools 👻	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Server / Storage" of "Manual Registration" tab.

ESMPRO		About NEC ESMPRO Manager Help Classic Mode 💄 admin 👻
🔇 Dashboard	-🚡 Register 📾 Component 🔺 Ale	ertViewer 🔀 Tools 👻
Auto	o Registration Manual Registratio	n
	Network Device	Other Computer Device Alert Only Management
	Component Name [Required]	
	Alias	
	Destination Group	root +
	Common Setting	
	OS IP Address [Required]	
	SNMP (NEC ESMPRO Agent) / WS-Man	/ ESXi / iStorage
	Management	• Registration O Unregistration
	Management Type	SNMP (NEC ESMPRO Agent, iStorage M series) WS-Man (NEC ESMPRO ServerAgentService, ESXi7 earlier) ESXi (ESXi8) REST API (iStorage V series)
	SNMP Community Name(Get)	public
	SNMP Community Name(Set)	
	RAID system (Universal RAID Utility)	
	Management	• Registration O Inregistration
	NEC ExpressUpdate	
	Updates via NEC ExpressUpdate Agent	• Registration O Unregistration
	Updates via Management Controller	• Registration O Unregistration
	"BMC (EXPRESSSCOPE Engine)"/"iLO"/	"BMC(Other)"/"vPro"(Common)
	Management	• Registration O Inregistration
	Management Type	BMC Other) VPro
	▲ "BMC(EXPRESSSCOPE Engine)" is ADE), BMC(ECO CENTER), BMC(many of For cases other than the above and "iLC	target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL core server). 3° and "vPro", Please select "BMC (Other)".
	Authentication Key [Required]	
	"BMC (EXPRESSSCOPE Engine)"/"iLO"/	"BMC(Other)"/"vPro"(LAN)
	Current IP Address	IP Address 1
	Failover	• Enable O Disable
	IP Address 1 [Required]	
	IP Address 2	
		ADD

(3) Input the following items.

Name	Value
Component Name	Specify the name of the managed component on NEC ESMPRO
1	Manager.
	Assign a name different from other managed component names. Do
	not enter a name including blank characters. Uppercase characters
	are distinguished from lowercase characters.
Alias	Specify the information about the managed component. Do not enter
	a name including blank characters. Only blank characters cannot be
	entered. Also, please do not enter a name containing blank
	characters. The blank characters will be removed if there are half-
	width blank characters before or after the string. Uppercase
	characters are distinguished from lowercase characters. Optional.
Destination Group	Specify the group to which the managed component will belong. See
	"1.3.2 Add component to Group" for the information about
	creating group.
Common Setting	
OS IP Address	Specify the OS IP Address of the managed component.
SNMP (NEC ESMPRO) Agent) / WS-Man / ESXi / iStorage
Management	Select "Registration" to manage the system of the component.
Management Type	Select WS-Man *1.
User Name/Password	Enter an administrative user's account of VMware ESXi server.
Communication	This is displayed only when WS-Man is selected as the management
Protocol	target.
	Select protocol HTTP/HTTPS for connection WS-Man service. *1
	 NEC ESMPRO ServerAgentService (Windows) is installed. If you want to use HTTPS for WS-Man communication with ESMPRO/ServerAgentService, refer to Chapter 2, Installation 3.3 HTTPS Setting in the ESMPRO/ServerAgentService Installation Guide (Windows).
	 NEC ESMPRO ServerAgentService (Linux) is installed. Select HTTPS.
	- The operating system of the managed component is VMware ESXi7. Select HTTPS.
Port Number	Enter port number where WS-Man service listens for connection. *2
	 NEC ESMPRO ServerAgentService (Windows) is installed. If you want to use HTTP, enter 5985. If you want to use HTTPS, enter 5986.
	 NEC ESMPRO ServerAgentService (Linux) is installed. Enter 5986.
	- The operating system of the managed component is VMware
	ESXi7.
	Enter 443.
RAID system manager	nent
Management	Select "Registration" to manage the RAID system of the component.
	If the operating system of the managed component is VMware ESXi,

	WS-Man management must be enabled in addition to this setting.				
NEC ExpressUpdate	······································				
Updates via NEC	Select "Registration" to manage the component using NEC				
ExpressUpdate Agent	ExpressUndate.				
Undates via	Select "Registration" to manage the component using Management				
Management	Controller				
Controller	Controller				
"BMC (EXPRESSSCC)PE Engine)" / "iLO" / "BMC (Other)" / "vPro" (Common)				
Management	Select "Registration" otherwise NEC ESMPRO Manager may not				
Wanagement	monitor HW status.				
Management Type	In the case of VMware FSXi server integrated BMC:				
Management Type	Select "BMC"				
	In the case of VM ware ESXi server integrated it O				
	Select "iLO".				
	In the case of VMware ESXi server integrated BMC other than				
	"BMC (EXPRESSSCOPE Engine)":				
	Select "BMC (Other)".				
Authentication Kev	If select "BMC (EXPRESSSCOPE Engine)" in "Management				
	Type", this item will be displayed.				
	Enter the "authentication key" that you set in "1.2 Configure BMC				
	on Managed Component".				
User Name	If select "iLO" or "BMC (Other)" in "Management Type", this item				
Password	will be displayed.				
	If select "iLO" in "Management Type", enter the user name and				
	password for communication with the iLO, *3				
	If select "BMC (Other)" in "Management Type", enter the user name				
	and password for communication with the BMC (Other). *4				
	Select "Access Mode" used by communication with BMC(Other).				
	*5				
	• Auto				
	If "Auto" is selected as an access method and connection is				
	established with both (IPMI and Redfish) the access methods i.e.				
	then refer "Priority access mode at the time of automatic selection"				
Access Mode	option in Classic Mode's Environment-Settings Network screen				
	and selected access method will get the priority for server				
	registration process.				
	• Redfish				
	Specify Redfish as the "Access Mode" for BMC (other).				
	• IPMI				
	Specify IPMI as the "Access Mode" for BMC (other).				
Port Number	Specify the Connection Port Number used by Redfish.				
	If you select "Auto" or "Redfish" as the access method, port number				
	settings are Mandatory				
"BMC (EXPRESSSCO	DPE Engine)" / "iLO" / "BMC (Other)" / "vPro" (LAN)				
Current IP Address	If you set both "IP Address1" and "IP Address2", specify which IP				
	address you want to use for connection.				
Failover	This setting is valid only when both "IP Addressl" and "IP				
	Address Z'' are set. Determine whether to enable/disable the				
TD A 11 1	"Failover" feature.				
IP Address 1	Enter the IP address that is specified on LANI of the BMC				
	configuration for the managed component.				
	If the managed component is a fault tolerant server, you should enter				
	the IP address of the management LAN port for the CPU/IO module				
	U to the form.				
	If the managed component is a server which has EXPRESSSCOPE				

	Engine SP3(2BMC model), you should enter the IP address of the management LAN port for the Master BMC to the form.		
IP Address 2	No input is required.		
CHECK: • *1 If a self-sig communication, detailed informat CHECK: • *2 Regarding a p number for WS-1	ned certificate is installed on the managed server for HTTPS a setting to allow it is required. Refer to "1.1 Setup Flow" for ion. ort number for WS-Man communication, refer to "Appendix C. Port Man communication".		
CHECK: • *3 Set a user nan user's guide" or ' Administrator Additional user If a user account use some functio	he and a password of following user account. Please refer to "iLO5 'iLO6 user's guide" for details about a user account of iLO. of the default user r with all user privileges. of other than the above is used, there is a possibility that you can't n for managing iLO.		
CHECK: • *4 Set a user n "BMC/CMC Mai BMC (Other). Administrator Additional user	ame and a password of following user account. Please refer to nagement Console User's Guide" for details about a user account of of the default user r with all user privileges.		
If a user account use some functio	If a user account of other than the above is used, there is a possibility that you can't use some function for managing BMC (Other).		
CHECK: • *5 When using "H certificates, it ESMPRO/Server between the BMO	Redfish" as the access method for BMC (other) and using self-signed is necessary to refer to "4.3.1 Environment setting" in Manager to allow self-signed certificates for communication C (other) component and ESMPRO/ServerManager.		
IMPORTANT: • If BMC(EXPRE (Other) manager status. Detailed in	SSSCOPE Engine) management and iLO management and BMC nent are disabled, NEC ESMPRO Manager cannot monitor HW nformation is shown in the connection check result screen.		
 IMPORTANT: When the access method for BMC (other) is Redfish, the remote console function and console log settings cannot be used. Other than that, there is no difference in functionality between IPMI and Redfish. 			

(4) Click "ADD".

If there is an error in the input content, correct the input content following the message.

ESMPRO	0	About NEC ESMPRO Manager Help Classic Mode 💄 admin 👻
🕼 Dashboa	ard 📲 Register 🛋 Component 🛕	AlertViewer 💥 Tools 👻
Auto R	egistra on Manual Registration	
		Tanan and Tanan and
	Destination Group	root
	Discovery Range	
	Discovery Mode	IP Address Range Discovery Network Address Discovery
	Start Address [Required]	
	End Address (Required)	
-		
	Server / Storage	
	SNMP (NEC ESMPRO Agent, iStorage I	M series)
	Discovery	Enable Disable
	SNMP Community Name [Required]	public
	WS-Man (NEC ESMPRO ServerAgentSe	Prvice, ESXI7 earlier)
	Discovery	Chable Ulsable
	User Name/Password [Required]	/ ADD
	ESXI (ESXI8)	
	Discovery	• Enable 🔿 Disable
	User Name/Password (Required)	/ ADD
	REST API (IStorage V series)	
	Discovery	• Enable 🔿 Disable
	Uses Name (Description)	400
	User Name/Password [Required]	/
	RAID system (Universal RAID Utility)	
	Discovery	Enable Disable
	NEC ExpressUpdate (ExpressUpdate A	gent)
	Discovery	Enable Disable
	Disease	C Fashia O Diashia
	Discovery	Chable Disable
	▲ "BMC(EXPRESSSCOPE Engine)" is ADE), BMC(ECO CENTER), BMC(many	arget for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP, EM Card(SIGMABL core server).
	For cases other than the above and "IL If BMC(EXPRESSSCOPE Engine) in	.0" and "vPro", Please select "BMC (Other)". nanagement is disabled, NEC ESMPRO Manager cannot monitor HW errors of some s
	NEC Expressiondate	Crachie Displie
	NEC Expressopolate	
	Authentication Key [Required]	ADD
	iLO	
	Discovery	• Enable 🔘 Disable
	A If il O management is disabled and	C ESMODO Manager cannot monitor HW errors of some sources. Places of a
	result page of auto registration.	Common menager cannot monitor HW errors of some servers. Please refer to the
	Liser Name/Password IDaquirad	7
	one rearrant asserting frequent	
	BMC (Other)	
	Discovery	• Enable O Disable
	▲ If BMC(Other)management is disa	abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please refe
	Access Mode	Auto Redfish IPMI
	▲ If "Auto" is selected as an access i	method and connection is established with both (IPMI and Redfish) the access meth
	ods i.e. then refer "Priority access mor Network screen and selected access r	de at the time of automatic selection [*] option in Classic Mode's Environment-Settings method will get the priority for server registration process.
	User Name/Password [Required]	ADD .
	Intel(R) vPro(TM) Technology	
	Discovery	• Enable 🔿 Disable
	User Name/Password Dequired	
	immer assure feedment	
	Network Device	
	Other Computer Device	
		KON DISCUVERY

(5) "CHECK CONNECTION" is displayed.

ESMPRO	About NEC ESMPRO Manager Help Classic Mode	🛔 admin 🗸
🚯 Dashboard 📲 Register 📾 Component 🛕 AlertViewer 💥 Tools 🔻		
Auto Registration Manual Registration		
Server / Storage Network Device Other Computer Device	Alert Only Management	
	-	
	please continue to perform check connection.	
	CHECK CONNECTION	

(6) If the "CHECK CONNECTION" is completed, "Connection check results" screen will be displayed.

ESMPRO		About NEC ESMPRO Manager Help Classic Mode 💄 admin -
🕒 Dashboard 🛛 🛃 Register 📾 Component	🛦 AlertViewer 🔀 Tools -	
Auto Registration Manual Reg	jistration	
Server / Storage Network De	evice Other Computer Devic	2e Alert Only Management
		Connection check results
	Management	Detected Detail
	WS-Man (NEC ESMPRO ServerAgentService, ESXi7 earlier)	Detected WS-Man management can be used.
	BA	ACK TO COMPONENT LIST CONTINUE REGISTERING

Detected	Detail				
Detected	The feature was detected.				
	NEC ESMPRO Manager can use the feature to manage the component.				
Not Detected	The feature was not detected.				
	NEC ESMPRO Manager cannot use the feature to manage the component.				
	Check parameters corresponding to the feature.				
	Click the "Name" of the component that could not be registered in the				
	"Component List". The connection settings screen in Classic mode will be				
	displayed. Please check that there are no errors in the entered items. For more				
	details, please refer to the online help for NEC ESMPRO Manager.				

10.3.2.2 Auto Registration

(1) Click "Register".

ESMPRO Bashboard Bregister Component A AlertViewer 🌣 Tools -	About NEC ESMPRO Manager Help Classic Mode 💄 admin -
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Server / Storage" of "Auto Registration".

Registration Manual Registration	0
in a registration	
Destination Group	root
Discovery Range	
Discovery Mode	IP Address Range Discovery Network Address Discovery
Start Address [Required]	
End Address [Required]	
Server / Storage	
SNMP (NEC ESMPRO Agent, iStorage	M series)
Discovery	Enable Disable
SNMP Community Name [Required]	public
WS.Man (NEC ESMDDO ServerArentS	andre ESVI7.aarlier)
Discovery	Enable Disable
User Name/Password [Required]	1 DDA
ESXI (ESXI8)	
Discovery	• Enable 🔿 Disable
Liser Name/Processed Processed	/
user marrier Password [Required]	
REST API (iStorage V series)	
Discovery	Enable Disable
User Name/Password (Required)	/ ADD
RAID system (Universal RAID Utility)	
NEC ExpressUpdate (ExpressUpdate A	Agent)
Discovery	• Enable 🔿 Disable
BMC(EXPRESSSCOPE Engine)	
Discovery	• Enable O Disable
BMC(EXPRESSSCOPE Engine)" is	s target for EXPRESSSCOPE Engine1/2/3/3ft/2SP/3SP EM Card(SIGMABL
ADE), BMC(ECO CENTER), BMC(many For cases other than the above and "II If BMC(EXPRESSSCOPE Engine) r ervers. Please refer to the result page	r core server). L0° and "vPro", Please select "BMC (Other)". management is disabled, NEC ESMPRO Manager cannot monitor HW errors of sor of auto registration.
NEC ExpressUpdate	O Enable 🔘 Disable
	100
	ADD
Authentication Key [Required]	
Authentication Key [Required]	
Authentication Key [Required] iLO Discovery	• Enable Disable
Authentication Key [Required] ILO Discovery	Enable Disable ECESMPRO Manager cannot monitor HW errors of some servers. Please refer to
Authentication Key [Required] ILO Discovery	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to
Authentication Key [Required] ILO Discovery	Enable Disable ECESMPRO Manager cannot monitor HW errors of some servers. Please refer to
Authentication Key [Required] ILO Discovery	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to
Authentication Key [Required] ILO Discovery	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to
Authentication Key [Required] ILO Discovery If ILO management is disabled, N result page of auto registration. User Name/Password [Required] EMC (Other) Discovery If IMC/(Other)management is disabled.	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to
Authentication Key [Required] ILO Discovery	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to Control of the servers of some servers. Please reference of the servers of some servers. Please reference of
Authentication Key [Required] ILO Discovery	Enable Disable EE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to I ADD Enable Disable abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please n. Auto Redfish IPMI
Authentication Key [Required] ILO Discovery	Enable Disable EE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to I ADD Enable Disable abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please n. Auto Redfish IPMI method and connection is established with both (IPMI and Redfish) the access m de at the time of submatic selection option in Classic Mode's Environment-Setti
Authentication Key [Required] ILO Discovery	Enable Disable EE ESMPRO Manager cannot monitor HW errors of some servers. Please refer to: Enable Disable Enable Disable abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please n. Mato Redfah IPMI method and connection is established with both (IPMI and Redfsh) the access m de at the time of automatic selection" option in Classic Mode's Environment-Settle method will get the priority for server registration process.
Authentication Key [Required] ILO Discovery	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to: Enable Disable Enable Disable abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please n. Auto Redfah IPMI method and connection is established with both (IPMI and Redfsh) the access m de at the time of automatic selection" option in Classic Mode's Environment-Settl method will get the priority for server registration process. I Lot
Authentication Key [Required] ILO IDiscovery	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to: ADD Enable Disable abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please n. Auto Redfish IPMI method and connection is established with both (IPMI and Redfish) the access m d at the time of automatic aslection' option in Classic Models Environment-Settim method will get the priority for server registration process.
Authentication Key [Required] ILO ISCOVEY	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to: ADD Enable Disable abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please between the server registration process.
Authentication Key [Required] ILO Discovery 4. If LO management is disabled, N result page of auto registration. User Name/Password [Required] MC (Other) Discovery 4. If MC(Other)management is disabled, N G (Moter) 4. If MC(Other)management is disabled, N G (Moter) 5. If BMC(Other)management is disabled, N G (Moter) 4. If Mot(Other)management is disabled, N G (Moter) 5. If Mot(Other)management is disabled, N G (Moter) 5. If Mot(Other)management is disabled, N G (Moter) 5. If Mot(Other)management is disabled, N G (Moter) 6. If Moter is a selected as an access 6. If Moter is a	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to ADD Enable Disable abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please black of the transmitter seture in the transmitter of automatic seture in the transmitter of automatic seture in the transmitter of automatic seture in the transmitter of the priority for server registration process. Disable Enable Disable
Authentication Key [Required] ILO Discovery 4. If LO management is disabled, N result page of auto registration. BMC (Other) Discovery 4. If BMC(Other)management is disabled, N Access Mode 4. If Aufor is selected as an access Notetwork screen and selected access User Name/Password [Required] Intel(R) vPro(TM) Technology User Name/Password [Required]	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to I ADD Enable Disable abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please black ADD Enable Disable Disable Disable Disable Disable Disable
Authentication Key [Required] ILO Discovery	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to: ADD Enable Disable abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO manager cannot monitor HW errors of some servers. Please abled will get the priority for server registration process.
Authentication Key [Required] ILO Discovery	Enable Disable EC ESMPRO Manager cannot monitor HW errors of some servers. Please refer to ADD Enable Disable abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Please abled, NEC ESMPRO Manager cannot monitor HW errors of some servers. Able able able able able able able able able

(3) Input the following items to search VMware ESXi servers.

Name	Value		
Destination Group	Specify the group to which the managed component will belong. When		
_	you add the group to which the managed component will belong, See		
	"1.3.2 Add component to Group" for the information about creating		
	group.		
Discovery Range			
Discovery Mode	With "IP Address Range Search" selected, the NEC ESMPRO Manager		
	searches for the managed components using the IP address range.		
	With "Network Address Search" selected, the NEC ESMPRO Manager		
	searches for the managed components using the specified network		
Q 11	address.		
Start Address	When you select "IP Address Range Search" for "Search Mode", specify		
End Address	the start IP address and end IP address of the range in which managed		
Nature de Addusas	Willow some sale of Willow set a damage Samely for "Samely Made" and the		
Network Address	the network address and network mask of the managed component to be		
INCLWORK MASK	searched for		
SNMP (NFC FSMPRO	Agent iStorage M series)		
Discovery	Select "Disable"		
WS-Man(NEC ESMPR	O Server AgentService FSX17)		
Discovery	Select "Enable" *1		
User Name/Password	Enter an administrative user's account of VMware ESXi server		
	Click "Add" button and you can add a pair of username and password up		
	to 5. *2		
ESXi (ESXi8)			
Discovery	Select "Enable". *1		
User Name/Password	Enter username and password for ESXi (ESXi8) communication. The		
	account must be a system administrator of the managed operating system.		
	Click "Add" button and you can add a pair of username and password up		
	to 5. *2		
REST API(iStorage V s	eries)		
Discovery	Select "Disable".		
RAID system managem	ent		
Management	Select "Enable" to manage the RAID system of the component.		
	WS-Man management must be enabled in addition to this setting.		
	Select "Disable" when the operating system of the managed component		
	is VMware ESXi8.		
NEC ExpressUpdate			
Updates via NEC	Select "Disable".		
ExpressUpdate Agent			
BMC (EXPRESSSCOP	L'Engine)		
Discovery	If you search for V Mware ESXI server in which BMC is integrated, select "Enable" otherwise NEC ESMPRO Manager cannot monitor HW status		
Features NFC	Select "Enable" to feature NFC ExpressUndate		
ExpressUndate	Select Endore to reduire ALC Expresso putte.		
Authentication Kev	Enter the "authentication key" that you set in "1.2 Configure BMC on		
	Managed Component". *2 *3		
iLO			
Discovery	If you search for VMware ESXi server in which iLO is integrated. select		
	"Enable" otherwise NEC ESMPRO Manager cannot monitor HW status.		
User Name/Password	Enter username and password for communication with the iLO,		

	Clicking "Add" button, you can enter up to 5 pairs of username and password. *5
BMC (Other)	
Discovery	If you search for VMware ESXi server in which BMC other than "BMC
	(EXPRESSSCOPE Engine)" is integrated, select "Enable" otherwise
	NEC ESMPRO Manager cannot monitor HW status.
	Select "Access Mode" used by communication with BMC(Other). *7
	• Auto
	If "Auto" is selected as an access method and connection is established
	with both (IPMI and Redfish) the access methods i.e. then refer
	"Priority access mode at the time of automatic selection" option in
Access Mode	Classic Mode's Environment-Settings Network screen and selected
	access method will get the priority for server registration process.
	• Redfish
	Specify Redfish as the "Access Mode" for BMC (other).
	• IPMI
	Specify IPMI as the "Access Mode" for BMC (other).
User Name/Password	Enter username and password for communication with the BMC (Other).
	Clicking "Add" button, you can enter up to 5 pairs of username and
	password. *6
Intel(R) vPro(TM) Tecl	hnology
Discovery	Select "Disable"

СНЕСК:

•	*1 If a self-signed certificate is installed on the managed server for HTTPS communication, a setting to allow it is required. Refer to "1.1 Setup Flow" for
	detailed information.
СН	ECK:
•	*2 On "Settings" - "Environment" - "Auto Registration Setting List" screen, you can manage a list of username/password and authentication key. All entries in the list are
	used for auto registration every time.
СН	ECK:
•	*3 If you register the "Management Controller" management for a fault tolerant
	server, you should specify the search range which includes BMC IP addresses of
	CPU/IO module 0 and 1.
•	*4 If you register the "Management Controller" management for a server which has
	EXPRESSSCOPE Engine SP3(2BMC model), you should specify the search range
	which includes both BMC IP addresses of Master and Standby.
	~ ~ ~ ~
СН	ECK:
•	*5 Set a user name and a password of following user account. Please refer to "1LOS
	user's guide" or "iLO6 user's guide" for details about a user account of iLO.
	Administrator of the default user
	Additional user with all user privileges.
	If a user account of other than the above is used, there is a possibility that you can't
	use some function for managing iI O
•••••	
СН	ЕСК.
сп	*6 Set a user name and a password of following user account Please refer to
	o set a user name and a password or ronowing user account. I lease refer to

"BMC/CMC Management Console User's Guide" for details about a user account of BMC (Other)
Administrator of the default user
Administrator of the default user
Additional user with all user privileges.
If a user account of other than the above is used, there is a possibility that you can't use some function for managing BMC (Other).
СНЕСК•
 *7 When using "Redfish" as the access method for BMC (other) and using self-signed certificates, it is necessary to refer to "4.3.1 Environment setting" in ESMPRO/ServerManager to allow self-signed certificates for communication between the BMC (other) component and ESMPRO/ServerManager.
 If BMC(EXPRESSSCOPE Engine) management and iLO management and BMC (Other) management are disabled, NEC ESMPRO Manager may not be able to monitor HW status. Detailed information is shown in the connection check result screen
ΙΜΟΩΤΑΝΤ.
When the access method for PMC (other) is Pedfish the remote console function
and console log settings cannot be used. Other than that, there is no difference in functionality between IPMI and Redfish.
·····

(4) Click "RUN DISCOVERY".

Auto Registration	anual Registration				
Destination Group	root		•		
Discovery Range	1001		•		
Discovery Mode	O IP Add	ress Range Discove	ry 🔿 Network Addres	s Discovery	
Start Address Red	uired]	168 8	9	-	
End Address (Requ	ired]	· 168 · 8	· 9		
Server / St	orage				
SNMP (NEC ESMP	RO Agent, iStorage M series)				
Discovery	Enable	Disable			
WS-Man (NEC ESN	PRO ServerAgentService, ESXi7	earlier)			
Discovery	Enable	O Disable			
User Name/Passw	ord [Required] root	/		ADD	
ESXi (ESXi8)					
Discovery	Enable	O Disable			
REST API (iStorage	V series)				
Discovery	Enable	O Disable			
RAID system (Univ	ersal RAID Utility)				
Discovery	🔘 Enable	Disable			
NEC ExpressUpdat	e (ExpressUpdate Agent)				
Discovery	Enable	Disable			
BMC(EXPRESSSC	PE Engine)	District			
Discovery	U Enable	UISADIê			
iLO	0				
Discovery	⊖ Enable	Disable			
BMC (Other)					
Discovery	C Enable	 Disable 			
Intel(R) vPro(TM)	echnology				
Discovery	🔿 Enable	Disable			
Network D	evice				
Other Com	puter Device				

CHI	ECK:
•	When you click the "RUN DISCOVERY", you may see a message "The search cannot be started.". If you have enabled "WS-Man Discovery", please check whether a "Self Signed Certificate" is allowed in section "1.3.1 Environment setting".

When you click the "RUN DISCOVERY", the discovery for components will begin and the "Auto Registration in Progress" screen will be displayed.

ESMPRO					About NEC ESMPRO Manager He	lp Classic Mode	💄 admin 🗝
Cashboard	-🗗 Register	E Component	🛦 AlertViewer 🔀 Tools 🗸				
				Auto Re;	gistration in Progress		
			Discovery Mode		IP Address Range Discovery		
			Start Address		192.168.8.9		
			End Address		192.168.8.9		
			the tween if switch	h screens or log o	CANCEL	een again.	

(5) When the "Auto Registration" is completed, following message will be displayed. Click "OK".



(6) Component registered is displayed on "Auto Registration Results".

Clicking the "name" will open the Classic mode, where you can confirm the registered information.

ESMP	RO					About NEC ESMPR	RO Manager Help Classic Mode 💄 adn	nin 🕶
🕻 Dash	iboard 📲 Register 📾	Component 🔺 Ale	tViewer 🧏 Tools 🔹					
ſ	Auto Registration	Manual Registrati	on					
				Auto Registrat	tion Resu	llts		
	Entry Count:1item((s)						
	Name	IP Address	Management LAN IP Address 1	Management LAN IP	Address 2	Install NEC ExpressUpdate Agent	Contents	
	ESXi6_7u2	192.168.8.9				ExpressUpdate Disable	The component was added. Management Controller management cannot be used. Hardware monitoring function is unavailable.	
			ВАСК	TO COMPONENT LIST	CONTIN	JE REGISTERING		

Name	Description
Name	Component name
IP address	IP address
Management LAN IP Address 1	IP address of BMC (EXPRESSSCOPE Engine) /iLO/BMC
	(Other) /vPro)
Management LAN IP Address 2	IP address of BMC (EXPRESSSCOP Engine) (LAN port2 is supported.)
Install NEC ExpressUpdate Agent	ExpressUpdate is enable
	When "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, and a component that can be installed with ExpressUpdate Agent is discovered.
	 ExpressUpdate is disable "NEC ExpressUpdate(ExpressUpdate Agent)" is disable "NEC ExpressUpdate(ExpressUpdate Agent)" is enabled, but there is not component that can be installed with ExpressUpdate Agent.
Contents	 A component has been added. This message will be displayed if the component is successfully registered. Management Controller management cannot be used. Hardware monitoring function is unavailable. This message will be displayed when BMC (EXPRESSSCOPE engine)/iLO/BMC (other)/vPro cannot be discovered for a component registered by an OS IP address. If you want to register the Management Controller management function, click the "Name". The connection settings screen in Classic mode will be displayed so you can perform the registration here

10.4 Upgrading to VMware ESXi 8.0

10.4.1 Changing the Managed device

Change to ESXi management from WS-Man management when being upgraded by VMware ESXi8.

- (1) In the ESXi management, it does not use when setting the following to manage WS-Man in NEC ESMPRO Manager.
 - Enable the WBEM service.
 - · Configure the sfcbd service to restart automatically when VMware ESXi boots.
 - Enable the Service Location Protocol service.

Therefore, the following configure when not using except NEC ESMPRO Manager.

- Disable the WBEM service.
 Execute following command to disable the WBEM service.
 # esxcli system wbem set --enable false
- Do not automatically restart the sfcbd service when VMware ESXi boots. Delete the following line added to /etc/rc.local.d/local.sh. /etc/init.d/sfcbd-watchdog restart
- Disable the Service Location Protocol service.
 Perform the Solution "To implement the workaround perform the following steps:" of the following knowledge information.
 How to Disable/Enable the SLP Service on VMware ESXi (76372)
 https://kb.vmware.com/s/article/76372
- (2) Click "Classic Mode"



(3) Click the component of the VMware ESXi 7 or earlier server

ESMPRO			ExpEther Too	User Name : admin [Auth ols Environment About	nority : Administrator] Close : NEC ESMPRO Manager Hel
Group 🗸	Group Information Server Control	Schedule -		[RAID System Manag	ement Mode : Advanced Mode
L 📀 📜 ESXI6	Component List Component List Component List Component List Component List Component Component Component Component Component Component Component Component Component Component C	Registration count : 1 count]	"Manasement Controller" Manasement LAN manasement	System management Registered/valid>	Page [1] NEC ExpressUpdate RAID s Not Registered Not Reg

(4) Click "Connection Setting" from "Setting" tab of the managed component. "Connection Setting" view is displayed. Click "Edit".

FOUDDO			User Name : admin [Authority : Administrator] Class
ESMPRO			ExpEther Tools Environment About NEC ESMPRO Manager Hel
Group	✓ root > ESXi6 > Construction Setting Constitution Setting F	Terrote Control	[RAD System Management Mode : Advanced Mode
S D root			
🗆 🍼 📜 ESXi6	Server setting	Item Name	Setup Value
	🗧 📓 Connection Setting	Component Name	ESXI6
	- IV Anno- Cotting	Alias	ESX16
	- Remote Wake Up Setting	Group	root
	Alert Destination	Connection Type	LAN
	Be the treatment of	Common Setting	
		OS IP Address	192.168.8.9
		SNMP (NEC ESMPRO Agent) / WS-Man / ESXi	
		Management	Registered(valid)
		Management Type	WS-Man (NEC ESMPRO ServerAgentService, before ESXi7)
		User Name	root
	l l l l l l l l l l l l l l l l l l l	Password	**********
		Communication Protocol	HTTPS
		Port Number	443
		RAID system management	
		Management	Not Registered
		NEC ExpressUpdate	
		Updates via NEC ExpressUpdate Agent	Not Registered
		"BMC (EXPRESSSCOPE Engine)" / "iLO" / "BMC	C (Other ("vPro" (Common)
		Management	Net Registered
			Edit Cleck Connection

(5) Change into ESXi management from WS-Man management.

Name	Value
SNMP (NEC ESMPRO	Agent) / WS-Man / ESXi
Management Type	Change to ESXi from WS-Man.
User Name/Password	Enter an administrative user's account of VMware ESXi server.
Communication	This is displayed only when WS-Man is selected as the management
Protocol	target.
	Select protocol HTTP/HTTPS for connection WS-Man service. *1
	 NEC ESMPRO ServerAgentService (Windows) is installed. If you want to use HTTPS for WS-Man communication with ESMPRO/ServerAgentService, refer to Chapter 2, Installation 3.3 HTTPS Setting in the ESMPRO/ServerAgentService Installation Guide (Windows). NEC ESMPRO ServerAgentService (Linux) is installed. Select HTTPS.
	- The operating system of the managed component is VMware ESXi7.
Port Number	Enter port number where WS-Man service listens for connection. *2
	 NEC ESMPRO ServerAgentService (Windows) is installed. If you want to use HTTP, enter 5985. If you want to use HTTPS, enter 5986.
	 NEC ESMPRO ServerAgentService (Linux) is installed. Enter 5986.
	- The operating system of the managed component is VMware ESXi7. Enter 443.
RAID system managem	nent
Management	In case of Registration, choose Unregistration.

(6) Click "Apply".

NEC ESMPRO Manager Setup Guide

			User Name : admin [Authority : Administrator] Close
ESMPRO			ExpEther Tools Environment About NEC ESMPRO Manager He
	root > ESXI6 > Connection Setting		[RAID System Management Mode : Advanced Mode
Group	Constitution Setting	Remote Control	
	Server setting E Connection Setting B Alke Monitorine Setting B Alke Monitorine Satting B Alkert Destination	Item Name Component Name [required] Aliss Group Connection Type OS IP Address [required] SNAP (NEO ESNAPRO Agent) / WS-Man / ESXI Management Management Type	Stetup Value ESX/6
		User Name [required]	esxi (esxi8) administartor
		Password [required]	
		Management NEC ExpressUpdate	O Registration O Unregistration
		Updates via NEC ExpressUpdate Agent "BMC (EXPRESSSCOPE Engine)" / "iLO" / "BMC (Oth Management	Registration Whregistration er/" / "vPro" (Common) Registration Unregistration
		B BAND 7 LOD trainagement is bisabled, NED ESMIFTIO Management Type Bit MC(EXPRESSSOOPE Engine) [™] is target for EXPRESSSO BitMC(EXPRESSSOOPE Engine) [™] is target for EXPRESSSO BitMC(EXPRESSSOOPE Engine) [™] is target for EXPRESSSO	er cannot monitor hw errors of some servers, messe refer to the result page ORMC @ LO O BMC(Other) O VPro XOPE Engine 1/2//3/14/259/35P.BM Card(SIGMABLADE), BMC(ECO CENTER), as select "BMC(Other)".
		User Name [required]	administrator
		Password [required]	
		Communication Protocol	OHTTP ® HTTPS
		Port Number [required]	443
		"BMC (EXPRESSSCOPE Engine)" / "iL0" / "BMC (Oth	er)" / "vPro" (LAN)
		P Address1 [required]	U 0 . 0 . 0 Apply [Gunce] . 0 . 0 .

(7) Click the "Connection Setting" from "Setting" tab of the managed component. Click "Check Connection" to collect the VMware ESXi server information for the management.

When the "Check Connection" is completed, the NEC ESMPRO Manager starts to control the VMware ESXi server.

Detected	Detail	
Detected	The feature was detected.	
	NEC ESMPRO Manager can use the feature to manage the component.	
Not Detected	The feature was not detected.	
	NEC ESMPRO Manager cannot use the feature to manage the component.	
	Check parameters corresponding to the feature.	

Chapter11 Setup for the Alert only Component

NEC ESMPRO Manager ver.6.02 or later can receive SNMP Trap from registered component as "Alert Only Management".

This chapter explains the setup procedure for the NEC ESMPRO Manager to manage the Alert only Component

11.1 Setup Flow

Perform the following setup procedure:

- (1) Connect the management PC on which NEC ESMPRO Manager is installed and the managed SNMP Trap component on the same network.
- (2) Configure SNMP Trap on the managed Alert only component by NEC ESMPRO Manager to enable SNMP Trap.

* Please refer to procedure manual of component to enable SNMP Trap.

(3) Register the managed component on NEC ESMPRO Manager.

11.2 Register a managed component on NEC ESMPRO Manager

To register the managed component on the NEC ESMPRO Manager, login to the NEC ESMPRO Manager and perform in the following order:

If necessary, see "1.3.2 Add component to Group" and add the group to which the managed component will belong.

CHECK:
Alert Only Management can be registered from "Manual Registration". Cannot be registered from "Auto Registration"

registered from "Auto Registration".

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin -
🚯 Dashboard 👌 Register 🚔 Component 🔺 AlertViewer 🔀 Tools 👻	
Component Status	A Alert Status
The component is not registered.	No alerts are unread.
The component is not registered.	No alerts are unread.

(2) Click the "Alert Only Management" of "Manual Registration" tab.

ESMPRO © Dashboard 👌 Register 🛋 Component ,	🛦 AlertViewer 💥 Tools -	About NEC ESMPRO Manager Help Classic Mode 💄 admin •
Auto Registration Manual Reg	istration	
Server / Storage Network D	vice Other Computer Device Alert Only Management	BACK TO COMPONENT LIST
Component Name [Required]		
Alias		
Destination Group	root ¢	
IP Address [Required]		
	ADD	

(3) Click the managed component's "Group name".

Name	Value	
Component Name	Specify the name of the managed component on NEC ESMPRO Manager.	
_	Assign a name different from other managed component names. Do not	
	enter a name including blank characters. Uppercase characters are	
	distinguished from lowercase characters.	
Alias	Specify the information about the managed component. Do not enter a	
	name including blank characters. Only blank characters cannot be entered.	
	Also, please do not enter a name containing blank characters. The blank	
	characters will be removed if there are half-width blank characters befo	
	or after the string. Uppercase characters are distinguished from lowerca	
	characters. Optional.	
Destination Group	Specify the group to which the managed component will belong.	
Common Setting		
IP Address	Specify the OS IP Address of the managed component.	

(4) Click "ADD".

If there is an error in the input content, correct the input content following the message. If the registration is successful, "Alert Only Management registration was successful." will be displayed.

ESMPRO Dashboard 5 Register Component	🛦 AlertViewer 💥 Tools 👻	About NEC ESMPRO Manager	Help Classic Mode	≗ admin •
Auto Registration Manual Rev Server / Storage Network D	pistration evice Other Computer Device Alert Only Manageme	BACK TO COMPONENT LIST		
Component Name [Required]	AlertOnly			
Alias				
Destination Group	root ¢			
IP Address [Required]	192 . 168 . 8 . 11			

(5) Component registered is displayed in"Component List".

Chapter12 Setup for ExpEther

NEC ESMPRO Manager ver.6.15 or later can manage ExpEther.

12.1 Notes of before setup

NEC ESMPRO Manager cooperates with ExpEther Manager to manage ExpEther. ExpEther must have its host's serial number in own EEPROM so that NEC ESMPRO Manager can manage ExpEther. So User should set host's serial number to the EEPROM on ExpEther board by using ExpEtherConfigTool.

For the ExpEtherConfig Tool, see the user's guide of ExpEther IO Expansion Unit (40G).

12.2 Setup Flow

Perform the following setup procedure:

(1) Install ExpEther Manager on the server which is connected to the same network as NEC ESMPRO Manager.

For the installation of ExpEther Manager, see the user's guide of ExpEther IO Expansion Unit (40G).

(2) Register the ExpEther Manager on NEC ESMPRO Manager by using "Discovery ExpEther Manager API".

Perform "Discovery ExpEther Manager API" after performing "Login API". Refer to "NEC ESMPRO Manager Ver.7 RESTful API Reference" for details of API. When executing "Diascovery ExpEther Manager API", you can use a sample script which is mentioned in "Appendix E. Means to perform REST API using a sample script".

Chapter13 Setup for Managed Component of Network Device

This chapter explains the setup procedure for the NEC ESMPRO Manager to manage the Network Device.

13.1 Setup Flow

Setup by the following setup procedure:

- (1) Connect the management PC on which NEC ESMPRO Manager is installed and the Network Device on the same network.
- (2) Perform the necessary setup for registering the Network Device.

Enable SNMP communication for the Network Device that support SNMPv1 MIB2.

(3) Register the Network Device in NEC ESMPRO Manager.

13.2 Register a managed component on NEC ESMPRO Manager

In order to register the managed component on the NEC ESMPRO Manager, login to the NEC ESMPRO Manager and perform the following procedure:

If necessary, see "1.3.2 Add component to Group" and add the group to which the managed component will belong.

13.2.1 Register the Network Device

Use either of following two methods to register the managed component.

Manual Registration

This method requires the operator to directly enter the managed component's information such as the IP address of Network Device.

Auto Registration

This method automatically searches the network for managed components and Network Device that are not registered yet in the NEC ESMPRO Manager and registers them.

13.2.1.1 Manual Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 💄 admin +
🚯 Dashboard 🚯 Register 🛋 Omponent 🛦 AlertViewer 💥 Tools 👻	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Network Device" of "Manual Registration" tab.

ESMPRO		About NEC ESMPRO Manager Help Classic Mode 🛓 admin •
🚯 Dashboard 📲 Register 📾 Component 🛕 Ale	tViewer 🔀 Tools 🗸	
Auto Registration Manual Registrati	on	
Server / Stora e Network Device	Oher Computer Device Alert Only Management	BACK TO COMPONENT LIST
Component Name [Required]		
Alias		
Destination Group	root ¢	
IP Address [Required]		
SNMP Community Name [Required]	public	
	ADD	
(3) Input the following items.

Name	Value		
Component Name	Specify the name of the managed component on NEC ESMPRO Manager.		
1	Assign a name different from Network Device names. Do not enter a name		
	including blank characters. Uppercase characters are distinguished from		
	lowercase characters.		
Alias	Specify the information about the managed component. Do not enter a		
	name including blank characters. Only blank characters cannot be entered.		
	Also, please do not enter a name containing blank characters. The blank		
	characters will be removed if there are half-width blank characters before		
	or after the string. Uppercase characters are distinguished from lowercase		
	characters. Optional.		
Destination Group	Specify the group to which the managed component will belong. When you		
	add the group to which the managed component will belong, See "1.3.2		
	Add component to Group" for the information about creating group.		
IP Address	Enter IP Address of the Network Device.		
SNMP Community	SNMP Community Name which is specified at SNMP Agent running on		
Name	the managed component.		

(4) Click "ADD".

If the registration is successful, "Network device registration was successful." will be displayed. If the registration fails, "Failed to register network device." will be displayed. Please ensure that the entered information is correct.

ESMPRO		About NEC ESMPRO Manager Help Classic Mode 🛓 admin •
🚯 Dashboard 📲 Register 🚔 Component	🛦 AlertViewer 🔀 Tools -	
Auto Registration Manual Re	egistration	
Server / Storage Network	Device Other Computer Device Alert Only Management	BACK TO COMPONENT LIST
Component Name [Required]	NetWork	
Alias		
Destination Group	root ¢	
IP Address [Required]	192 . 168 . 8 . 107	
SNMP Community Name [Req	uired] public	
	ADD	

(5) The Network Device registered is displayed in "Component List"

13.2.1.2 Auto Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin -
	A Margan
Component status	Avert Status
The component is not registered.	No alerts are unread.

(2) Click the "Network Device" of "Auto Registration".

ESMPRO				About NEC ESMPRO Manage	r Help Cl	lassic Mode	💄 admin 🗸
C Dashboard	-🚡 Register 📾 Component 🛕 AlertV	liewer 💥 Tools 👻					
Aut	to Registration Manual Registration	1					
	Destination Group	root	\$				
	Discovery Range						
	Discovery Mode	• IP Address Range Discovery	O Network Address Discovery	y			
	Start Address [Required]						
	End Address [Required]						
	Server / Storage						
	Network Device						
	SNMP Community Name [Required]	public					
	Other Computer Device						
		RUN DISCOVERY					

(3) Input the following items to search managed components based on Network Device.

Name	Value	
Destination Group	Specify the group to which the managed component will belong. When you	
	add the group to which the managed component will belong, see "1.3.2 Add	
	component to Group" for the information.	
Discovery Range		
Discovery Mode	With "IP Address Range Search" selected, the NEC ESMPRO Manager	
	searches for the managed components using the IP address range.	
	With "Network Address Search" selected, the NEC ESMPRO Manager	
	searches for the managed components using the specified network address.	
Start Address	When you select "IP Address Range Search" for "Search Mode", specify	
End Address	the start IP address and end IP address of the range in which managed	
	components are to be searched for.	
Network Address	When you select "Network Address Search" for "Search Mode", specify the	
Network Mask	network address and network mask of the managed component to be	
	searched for.	
Network Device		
SNMP Community	SNMP Community Name which is specified at SNMP Agent running on	
Name	the managed component.	

(4) Click "RUN DISCOVERY".

ESMPRO			About NEC ESMPRO Manager	Help Classic Mode	🛓 admin -
🚯 Dashboard 🛛 🔒 R	Register 📾 Component 🛕 AlertVi	iewer 💥 Tools -			
Auto Re	egistration Manual Registration				
	Destination Group	root ¢			
	Discovery Range				
1	Discovery Mode	• IP Address Range Discovery O Network Address Disco	overy		
\$	Start Address [Required]	192 . 168 . 8 . 107			
E	End Address [Required]	192 . 168 . 8 . 107			
	Server / Storage				
	Network Device				
ş	SNMP Community Name [Required]	public			
	Other Computer Device				
		RUN DISCOVERY			

Click "RUN DISCOVERY" and then the search for the managed components will start. The screen "Auto Registration in Progress" is displayed.

ESMPRO		About NEC ESMPRO Manager H	elp Classic Mode	🛓 admin -
🕏 Dashboard 📲 Register 📾 Component 🔒	🛕 AlertViewer 🛛 💥 Tools 👻			
Auto Registration Manual Reg	istration			
		\bigcirc		
	Auto Re	gistration in Progress		
	Discovery Mode	IP Address Range Discovery		
	Start Address	192.168.8.107		
	End Address	192.168.8.107		
	${\mathbb A}$ Even if switch screens or log o	CANCEL	n again.	

(5) When the "Auto Registration" is completed, following message will be displayed. Click "OK".



(6) Component registered is displayed on "Auto Registration Results".

ESMF	PRO				About NEC ESM	IPRO Manager Help	Classic Mode	🛓 admin 🕶
🕒 Dasi	hboard 📲 Register 📾	Component 🔺 Ale	rtViewer 🕻 Tools 🔹					
	Auto Registration	Manual Registrat	ion					
					Desults			
				Auto Registratio	on Results			
	Entry Count:1item	(s)						
	Name	IP Address	Management LAN IP Address 1	Management LAN IP Ad	idress 2 Install N	VEC ExpressUpdate Agent	Contents	
	Network	192.168.8.107			Expres	sUpdate Disable	The com	ponent was added.
			BACK TO C	COMPONENT LIST	CONTINUE REGISTE	RING		

Name	Value		
Name	Component name		
IP address	IP address		
Management LAN IP Address 1	It is not displayed.		
Management LAN IP Address 2	It is not displayed.		
Install NEC ExpressUpdate Agent	• ExpressUpdate is disable		
	This function is not supported.		
Contents	• The component has been added.		
	This message is displayed when a component has been		
	successfully registered.		

TIPS:

If the system management cannot discover the managed component name, the "Name" of "Component List" will be "ManagementController".

.....

The following components will be named "ManagementController + number". If you want to change the name, click the "Name" in the "Component List" to launch Classic mode, and then click "Setting" -> "Connection Setting" -> "Edit" to change component name.

Chapter14 Setup for Managed Component of Other Computer Device

This chapter explains the setup procedure for the NEC ESMPRO Manager to manage the Other Computer Device component.

14.1 Setup Flow

Setup by the following setup procedure:

- (1) Change account of ESMPRO/SM Task Service according to the following procedure for managing Other Computer Device.
- 1. Launch "Services" from "Administrative Tools" of "Control Panel".
- 2. Stop ESMPRO/SM Web Service.
- 3. Stop ESMPRO/SM Task Service.
- 4. Double-click ESMPRO/SM Task Service and the property screen is displayed.
- 5. Select "This account" instead of "Local System account" on "LogOn" tab.
- 6. Enter "account" and "Password" with administrator privileges, and click "OK".
- 7. Start ESMPRO/SM Task Service.
- 8. Start ESMPRO/SM Web Service.
- (2) Connect the management PC on which NEC ESMPRO Manager is installed and the Network Device on the same network.
- (3) Perform the necessary setup to register the Other Computer Device.

The following settings are required according to OS of Other Computer Device.

- Windows Server 2016 / 2019 / 2022, Windows 10 / 11
- Please Setting category of network to domain or private network.
- If windows firewall is enabled, the communication will be interrupted, so you won't be able to manage it correctly. Open following port that is not opened.

Function	PC for management		protocol/ Other C		omputer Device
FUNCTION	Component	Port	direction Port (Component
Detail display, remote control	NEC ESMPRO Manager	Unknown	$\begin{array}{c} \text{TCP} \\ \rightarrow \\ \leftarrow \end{array}$	5985	WinRM Service

- Run PowerShell with "Run as Administrator", execute the following command in Windows 2016. Set-WSManQuickConfig –Force
- Red Hat Enterprise Linux

- For Red Hat Enterprise Linux 9, it is necessary to enable SSH login for the root account.
- Open the following port if it is not opened.

Function PC for managem		nent	protocol/	Other Co	mputer Device
		Port	direction	Port	Component
Detail display, remote control	NEC ESMPRO Manager	Unknown	$\begin{array}{c} \text{TCP} \\ \rightarrow \\ \leftarrow \end{array}$	22	SSH

(4) Register the Other Computer Device in NEC ESMPRO Manager.

14.2 Register Other Computer Device on NEC ESMPRO Manager

In order to register the managed component on the NEC ESMPRO Manager, login to the NEC ESMPRO Manager and perform the following procedure:

If necessary, see "1.3.2 Add component to Group" and add the group to which the managed component will belong.

14.2.1 Register the Other Computer Device

Use either of following two methods to register the managed component.

Manual Registration

This method requires the operator to directly enter the managed component's information such as the IP address of Other Computer Device.

Auto Registration

This method automatically searches the network for managed components and Other Computer Device that are not registered yet on the NEC ESMPRO Manager and registers them.

14.2.1.1 Manual Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin •
Component 🛦 AlertViewer 🛠 Tools 👻	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Other Computer Device" of "Manual Registration" tab.

ESMPRO			About NEC ESMPRO Manager	Help Classic Mode 💄 admin 🗸
🚯 Dashboard 📲 Register 📾 Component 🛕 A	lertViewer 🔀 Tools 👻			
Auto Registration Manual Registra	ation			
Server / Storage Network Device	Other Computer Device	a ert Only Management	BACK TO COMP	PONENT LIST
Component Name [Required]				
Alias				
Destination Group	root	\$		
IP Address [Required]				
User Name [Required]				
Password [Required]				
	ADD			

(3) Input the following items.

Name	Value
Component Name	Specify the name of the managed component on NEC ESMPRO Manager.
	Assign a name different from Other Computer Device names. Do not enter
	a name including blank characters. Uppercase characters are distinguished
	from lowercase characters.
Alias	Specify the information about the managed component. Do not enter a
	name including blank characters. Only blank characters cannot be entered.
	Also, please do not enter a name containing blank characters. The blank
	characters will be removed if there are half-width blank characters before
	or after the string. Uppercase characters are distinguished from lowercase
	characters. Optional.
Destination Group	Specify the group to which the managed component will belong. When you
	add the group to which the managed component will belong, See "1.3.2
	Add component to Group" for the information about creating group.
IP Address	Enter IP Address of the Other Computer Device.
User Name	Enter the user name and password for communication with Other Computer
Password	Device.
	- Windows
	Enter Username/Password of Windows system Administrator.
	- Linux
	Enter root/Password of Linux operating system.

(4) Click "ADD".

If the registration is successful, "Other Computer Device registration was successful." will be displayed. If the registration fails, "Failed to register Other Computer Device. Please check the input information or the ESMPRO/SM Task Service logon account" will be displayed. Please ensure that the entered information is correct. If "Failed to register Other Computer Device" is displayed, please check whether procedure2 in "14.1 Setup Flow" is executed.

ESMPRO				About NEC ESMPRO Manager	Help Classic Mode	💄 admin -
🕒 Dashboard	-🖥 Register 📾 Component 🛕 Ale	ertViewer 💥 Tools -				
А	Auto Registration Manual Registrat	tion				
	Server / Storage Network Device	Other Computer Device	Alert Only Management	BACK TO	COMPONENT LIST	
	Component Name [Required]	OtherComputer				
	Alias					
	Destination Group	root	\$			
	IP Address [Required]	192 . 168 . 8	. 59			
	User Name [Required]	root				
	Password [Required]					
	6	ADD				

(5) The Other Computer Device registered will be displayed in "Component List".

14.2.1.2 Auto Registration

(1) Click "Register".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin -
🚯 Dashboard 🕴 Register 🚔 🖨 mponent 🛕 AlertViewer 💥 Tools 👻	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click the "Other Computer Device" of "Auto Registration".

ESMPRO		About NEC ESMPRO Mana	jer Help	Classic Mode	💄 admin 🕶
🚯 Dashboard 📲 Register 📾 Component 🛕 Ale	ertViewer 🔀 Tools 👻				
Auto Registration Manual Registrat	tion				
Destination Group	root				
Discovery Range					
Discovery Mode	IP Address Range Discovery Network Address Discov	ery			
Start Address [Required]					
End Address [Required]					
Server / Storage					
Network Device					
C Other Computer Device					
User Name/Password [Required]					

(3) Input the following items to search managed components based on Other Computer Device.

Name	Value
Destination Group	Specify the group to which the managed component will belong. When you
	add the group to which the managed component will belong, see "1.3.2 Add
	component to Group" for the information.
Discovery Range	
Discovery Mode	With "IP Address Range Discovery" selected, the NEC ESMPRO Manager
	searches for the managed components using the IP address range.
	With "Network Address Discovery" selected, the NEC ESMPRO Manager
	searches for the managed components using the specified network address.
Start Address	When you select "IP Address Range Discovery" for "Discovery Mode",
End Address	specify the start IP address and end IP address of the range in which
	managed components are to be searched for.
Network Address	When you select "Network Address Discovery" for "Discovery Mode",
Network Mask	specify the network address and network mask of the managed component
	to be searched for.
Network Device	
User Name/ Password	Enter the user name and password for communication with Other Computer
	Device.
	- Windows
	Enter Username/Password of Windows system Administrator.
	- Linux
	Enter root/Password of Linux operating system.

(4)Click "RUN DISCOVERY".

ESMPRO		About NEC ESMPRO Manager	Help Classic Mode	🛓 admin -
🕒 Dashboard 📲 Register 📾 Component 🛕 Aler	Viewer 🔀 Tools -			
Auto Registration Manual Registration	'n			
Destination Group	root \$			
Discovery Range				
Discovery Mode	• IP Address Range Discovery O Network Address Disc	covery		
Start Address [Required]	192 . 168 . 8 . 59			
End Address [Required]	192 . 168 . 8 . 59			
Server / Storage				
Network Device				
Other Computer Device				
User Name/Password [Required]	root / A	DD		
	RUN DISCOVERY			

Click "RUN DISCOVERY" and then the discovery for the managed components will start.

"Auto Registration in Progress" screen will be displayed.

ESMPRO			About NEC ESMPRO Manager Help	Classic Mode 💄 admin 👻
🔇 Dashboard - 🗗 Reg	ister 📾 Component	🛕 AlertViewer 🛛 💥 Tools 👻		
Auto Regi	stration Manual Re	jistration		
		Auto F	Registration in Progress	
		Discovery Mode	IP Address Range Discovery	
		Start Address	192.168.8.59	
		End Address	192.168.8.59	
		${\mathbb A}$ Even if switch screens or lo	CANCEL g out, you can check the progress by opening this screen	again.

(5) When the "Auto Registration" is completed, following message will be displayed. Click "OK".



(6) Component registered is displayed on "Auto Registration Results"

ESMPR	0			Abour	t NEC ESMPRO Manager Help Cla	ssic Mode 💄 admin ▾
🖨 Dashbo	ESMPRO About NEC ESMPRO Manager Help Classic Mode admined admined main a					
	Auto Registration	Manual Registrat	lion			
				Auto Registration Res	ults	
	Entry Count:1item(s	3)				
	Name	IP Address	Management LAN IP Address 1	Management LAN IP Address 2	Install NEC ExpressUpdate Agent	Contents
	OtherComputer	192.168.8.59			ExpressUpdate Disable	The component was added.
			BACK TO (COMPONENT LIST CONTIN	IUE REGISTERING	

Name	Description
Name	Component name
IP address	IP address
Management LAN IP Address 1	It is not displayed.
Management LAN IP Address 2	It is not displayed.
Install NEC ExpressUpdate Agent	ExpressUpdate is disable
	This function is not supported.
Contents	• The component has been added.
	This message is displayed when a component has been
	successfully registered.

TIPS:

 In Auto Registration, If the system management cannot discover the managed component name, the "Name" of "Component List" will be "OtherComputer". The following components will be named "OtherComputer + number".

.....

 If you want to change the name, click the "Name" in the "Component List" to launch Classic mode, and then click "Setting" -> "Connection Setting" -> "Edit" to change component name.

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Chapter15 Operating groups

This chapter explains the procedure for the NEC ESMPRO Manager to add group or change name or delete name.

See "1.3.2.1 Creating group" to create group.

15.1 Adding group

(1) Click "Component".

ESMPRO	About NEC ESMPRO Manager Help Classic Mode 🛓 admin -
🏶 Dashboard 📲 Register 📾 Component 🛕 JertViewer 🌫 Tools 👻	
Component Status	Alert Status
The component is not registered.	No alerts are unread.

(2) Click "checkbox" of component listed on "Component List", and click "+ ADD GROUP".

ESI	MPRO			About NEC ESMPRO Manager Help Classic Mode 💄 admin 🕶	
¢	Dashboard	-🖥 Register 🛛 📾 Co	mponent 🛕 AlertViewer 💥 Tools 🔻		
Co	mponent Li	st		+ ADD GROUP root +	
	REFRESH		✓ ● Error ✓ ● Warning ✓ ● DC-OFF/PC	ST/OS Panic 🔽 • Unknown 🗹 • Normal 🗹 • Status Getting 🗹 • Not Monitor	əd
	Status ≜	Name 🍵	Type	Management LAN	
	•	ESXi6_7u2	Server	192.168.8.9	
	•	AlertOnly	Alert Only	192.168.8.11	
	•	Network	Network Device	192.168.8.107	
	•	OtherComputer	Other Computer Device	192.168.8.59	
	•	GroupB	Group[Rename]		
5 it	em(s) betwe	een 1 and 5 is displa	yed	Previous 1 N	ext
				DELETE SELECTED DEVICE/GROUP	

г

(3) Select group from group list, and click "REGISTER".

If you want create a new group for component here, click "+ ADD New Group" and enter group name.

Add devices or groups to the group.									
GroupB 1 device(s) will be added									
REGISTER									

(4) The following message will be displayed, and click "OK".



(5) If you select a group that contains a component from the group list, the component or group will be displayed in the "Component List".

ESMPRO		About	NEC ESMPRO Manager Help	Classic Mode 💄 admin 🕶
🕒 Dashboard 📲 Register 🚔 Component 🛕 Ale	tViewer 💥 Tools 👻			
Component List			+ ADD GROUP Gr	oupB 🗢
REFRESH 🗹 🍨	Error 🔽 🔍 Warning 🗹 🔍 DC-O	FF/POST/OS Panic 🗹 🔍 Unknov	vn 🗹 🔍 Normal 🗹 🔍 Statu	us Getting 🛛 🔍 Not Monitored
🗌 Status 🗢 Name 🗢 Type 🌲	Linkage	ss	# Memo	 ▼
ESXi6_7u2 Server	192.168.	8.9		
1 item(s) between 1 and 1 is displayed				Previous 1 Next
				DELETE SELECTED DEVICE/GROUP

15.2 Changing group name

(1) In "Component List", click "Rename" on the right of the group under the "Type" column.

ESMPRO	🖴 Component 🛕 AlertViewer 💥 Tools 👻		About N	EC ESMPRO Manager Help Class	ic Mode ≜ admin ▼
Component List				+ ADD GROUP	\$
REFRESH Status ≑ Name GroupB	 ✓ ● Error ✓ ● Warning ✓ ● Warning ✓ ● Linkage ✓ Group[Rename] 	DC-OFF/POST/OS Panic	Ounknown Management I IP Address	a ♥ ●Normal ♥ ●Status Ge LAN	tting 🗹 🔍 Not Monitored
1 item(s) between 1 and 1 is o	lisplayed			DELET	Previous 1 Next

(2) Enter a new group name, and click "APPLY".

GroupB is renaming	×
[Please enter within 63 characters]	
GroupC Registration components 1item(s)	
APPLY	>

(3) Check the group name changed on "Component List".

ESMPRO				About NEC	ESMPRO Manager H	lelp Classic Mode	💄 admin 🗸	
🕼 Dashboard 🛛 🖧 Register 📾	Component 🔺 A	ertViewer 💥 Tools 🔻						
Component List					+ ADD GROUP	root	\$	
REFRESH	 Error 	🗹 🔍 Warning 🔽 🔍	DC-OFF/POST/OS Panic	 Unknown 	✓ ● Normal ✓	 Status Getting 	 Not Monitored 	
Status 🚖 Name	Type	Linkage	IP Address	 Management L IP Address 	AN	10	\$	
GroupC	Group[Rename	1						
1 item(s) between 1 and 1 is dis	1 item(s) between 1 and 1 is displayed Previous 1 N							
						DELETE SELE	CTED DEVICE/GROUP	

15.3 Removing groups

If you delete a group, all components and sub-groups under this group will also be deleted.

(1) Select a group which target groups belong to.

ESMPRO					About NEC	ESMPRO Manage	er Help Classic Mode	💄 admin 🗸
Cashboard -	🗄 Register 🛛 📾 Comp	oonent 🛕 AlertV	′iewer 💥 Tools 🔻					
Component List	t					+ ADD GROUP	root	\$
REFRESH		🗹 🗕 Error 🛛 🤇	🖲 Warning 🛛 🔍	DC-OFF/POST/OS Panic	Unknown	Normal	Status Getting	 Not Monitored
🗌 Status 🌲	Name 💠	Туре	Linkage	IP Address	Management L	AN \$	Memo	*
	GroupC	Group[Rename]						
1 item(s) betwee	en 1 and 1 is displaye	d						Previous 1 Next
							DELETE SELE	CTED DEVICE/GROUP

- (2) Check target groups, click "DELETE SELECTED DEVICE/GROUP".
 - You can check the components/groups displayed on the screen by clicking the checkbox located to the left of the status column.

ESMPRO					About NEC	ESMPRO Manager	Help Classic Mode	💄 admin 🗸
🕼 Dashboard	-🖺 Register	📾 Component 🛛 🗛	lertViewer 🕻 Tools 🕈					
Component L	.ist					+ ADD GROUP	root	\$
REFRESH		Error	🗹 🔍 Warning 🔽 🔍	DC-OFF/POST/OS Panic	Unknown	Normal	Status Getting	 Not Monitored
Status	Name	Type	Linkage	IP Address	IP Address	⇒ Me	mo	\$
🖸)•	GroupC	Group[Rename]					
1 item(s) betw	veen 1 and 1 is	displayed				(DELETE SELE	Previous 1 Next

(3) Click "DELETE" and you can remove checked groups from NEC ESMPRO Manager.

	×
Deletes the specified device/group. Please note that if a device or group is registered under a group, it will be deleted together.	I
DELETE CANCEL	

If delete start,"Group deletion started." message is displayed and click "OK".



Chapter16 Removing components

This chapter explains the procedure for the NEC ESMPRO Manager to remove components.

16.1 Removing components

(1) Select a group which target components belong to.

ES	MPRO							About NE	C ESMPRO Manager	lelp Classic Mode	🛓 admin 🕶
¢	Dashboard	-🛅 Register 🛛 📾	Component 🛕	AlertViewer	💥 Tools 👻						
Co	mponent Li	st							+ ADD GROUP	GroupB	> +
	REFRESH		•	Error 🗹	Warning 🔽	DC-OFF/P0	OST/OS Panic	Unknow	n 🗹 🔍 Normal 🗹	 Status Getting 	Not Monitored
0	Otatua	A Manual	. Ture	 Linkons 		ID Address	Mana	gement LAN			
	o	Server	Server	÷ Linkage	*	192.168.8.59	÷ IF Aut	11655	→ Menio		~
1 it	1 item(s) between 1 and 1 is displayed Previous 1 Next										
										DELETE SELI	ECTED DEVICE/GROUP

(2) Check target groups, click "DELETE SELECTED DEVICE/GROUP".

You can check the components/groups displayed on the screen by clicking the checkbox located to the left of the status column.



(3) Click "DELETE" and "Deleting components.Please wait a minutes." will be displayed. If the deletion finish, "The deletion process is complete." will be displayed, and click "OK".



Appendix A. How to setup for the managed component that does not has local console

Even if a managed component does not have local consoles like a keyboard, you can operate BIOS setup and DOS tools of the managed component using NEC ESMPRO Manager. Here procedure of the minimum in order to use the remote control for the managed component is shown.

- 1. Install NEC ESMPRO Manager and set the Environment.
- 2. Configure BMC on a managed component.
- 3. Register a managed component on NEC ESMPRO Manager.
- 4. Open the remote console.

1. Install NEC ESMPRO Manager and set the Environment.

- (1) Install NEC ESMPRO Manager on a management PC. Refer to NEC ESMPRO Manager Ver.7 Installation Guide.
- (2) Confirm that you can login to the NEC ESMPRO Manager.
- (3) When you use LAN connection, connect the NEC ESMPRO Manager server and the managed component on the network.
- (4) Install NEC ESMPRO BMC Configuration on any PC.

2. Configure BMC on a managed component.

(1) Configure BMC of the managed component. When you use LAN connection, refer to 2.2.2"Configuration with NEC EXPRESSBUILDER DOS based with remote console feature (for LAN connection)".

3. Register a managed component on NEC ESMPRO Manager.

- (1) After login to NEC ESMPRO Manager, register Add a new group that the managed component will belong. Refer to 2.3.1"Add Group to which the managed component will belong".
- (2) Register the managed component.For LAN connection, refer to 2.3.2.2"Auto Registration".

4. Open the remote console.

(1) Select the managed component on NEC ESMPRO Manager and click remote console tab to open the remote console.

(2) Select the managed component on NEC ESMPRO Manager and click remote control tab. Reboot the managed component using some remote control command. When the managed component is booted using NEC EXPRESSBUILDER CD-ROM, the main menu of NEC EXPRESSBUILDER will be displayed on the remote console of NEC ESMPRO Manager.

TIPS:

- If you use DOS based tool on the managed component, execute a remote control command with checking the check box of "Utility Boot" on remote control tab. If the anything is not displayed on the remote console.
- For LAN connection input ESC+{ key on the remote console.

Appendix B. How to setup for using NEC ESMPRO Agent Extension or NEC DianaScope Agent on the managed component that is set LAN teaming

Please setup NEC ESMPRO Manager with the procedure below using NEC ESMPRO Agent Extension, or NEC DianaScope Agent ver.2.00.00 and above.

The operation for NEC ESMPRO Agent Extension is explained.

How to setup is depended on the type of the managed component on which NEC ESMPRO Agent Extension has been installed.

- On the managed component that BMC uses standard LAN port.

- On the managed component that BMC uses Management LAN port.

Please see the appropriate explanation.

B.1 On the managed component that BMC uses standard LAN port

CHECK:

• DO NOT refer this description for the managed component in which EXPRESSSCOPE Engine series is integrated.

Refer to "NEC ESMPRO Manager Ver.6 Installation Guide" about the setting of LAN Teaming that is available for NEC ESMPRO Manager.

If OS on the managed component is Linux, how to setup the NEC ESMPRO Manager is not depended on LAN teaming.

If OS on the managed component is Windows, please setup the NEC ESMPRO Manager with the procedure below.

- 1. Invalidate BMC IP address synchronization function of NEC DianaScope Agent.
- 2. Set BMC configuration by using the NEC DianaScope Agent.
- 3 Select IP address for NEC DianaScope Agent.
- 4. Register the managed component on the NEC DianaScope Agent.

1. Invalidate BMC IP address synchronization function of the NEC DianaScope Agent.

(1) Click "NEC DianaScope Agent" - "NEC DianaScope Agent" from the start menu on Windows.

(2) Click "synchronization" on the dialog box of the NEC DianaScope Agent.

(3) Set the BMC IP address synchronization to disable.

2. Set BMC configuration by using the NEC DianaScope Agent.

(1) See 2.2.1"Configuration with NEC ESMPRO Agent Extension ver1.xx (for LAN connection)" and set BMC configuration information.

Note the followings:

- Set LAN1 IP address to same value of the teaming-set IP address.

- Even if the configuration of LAN2 for the BMC on the managed component is available, do not set LAN2 in the BMC configuration information. (If LAN2 IP address for BMC is already set, change it to "0.0.0.".)

CHECK:

• Even if the BMC configuration has been already set, confirm the LAN1 IP address and register it again after invalidating BMC IP address synchronization function

and register it again after invalidating BMC IP address synchronization function.

3 Select IP address for NEC DianaScope Agent.

(1) Select "Select IP address for Agent" on NEC DianaScope Agent.

(2) Enter the teaming address for LAN1.

4. Register the managed component on the NEC ESMPRO Manager.

(1) See 2.3"Register a managed component on NEC ESMPRO Manager (for LAN connection)" and register the managed component.

CHECK:

• Confirm the IP address of the managed component even if the "Check Connection" for the managed component has been completed. If the IP address is different from the teaming-set IP address that is set in the procedure "2. Set BMC configuration through NEC DianaScope Agent", edit it and perform "Check Connection" again.

B.2 On the managed component that BMC uses Management LAN port

Please setup the NEC ESMPRO Manager with the procedure below. This procedure does not depend on OS of the managed component.

- 1. Set IP address that NEC ESMPRO Agent Extension uses on NEC ESMPRO Agent Extension.
- 2. Register the managed component on the NEC ESMPRO Manager.

1. Set IP address that NEC ESMRPO Agent Extension uses on NEC ESMPRO Agent Extension.

(1) Click "Set Agent IP address" of NEC ESMPRO Agent Extension and set the IP address that is used for Teaming on any LAN.

2. Register the managed component on the NEC ESMPRO Manager.

(1) See 2.3"Register a managed component on NEC ESMPRO Manager (for LAN connection)" and register the managed component.

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CHECK:

If the "Check Connection" for the managed component has been completed, perform "Check Connection" again after performing "Set IP address that NEC ESMPRO Agent Extension uses on NEC ESMPRO Agent Extension".

Appendix C. Port number for WS-Man communication

A port number where WS-Man service listens for connection is as follow.

- Windows system
 WS-Man service listens for HTTPS connection at port 5986, for HTTP connection at port 5985.
- (2) Linux system WS-Man service listens for HTTPS connection at port 5986. Linux system does not support HTTP connection.
- (3) VMware ESXi system WS-Man service listens for HTTPS connection at port 443. VMware ESXi system does not support HTTP connection.

Appendix D. Managed Components Summary

Component which is installed BMC/iLO/BMC(Other)

The NEC ESMPRO Manager has following functions for BMC conforming to management components.

- Remote console
- Information collection
- Power control
- Component monitoring
- Remote batch
- Operation through the command line

Some available functions are dependent on the product type of the managed component. See the following managed component list.

The notes and restrictions of each component product are also explained in the user's guide provided with the managed component. See the user's guide.

<Explanation of the managed components list>

Product Name: Indicates the name of the product that NEC ESMPRO Manager can control.

МС Туре:	 "BMC": means that the managed component pre-contains BMC other EXPRESSSCOPE Engine or EXPRESSSCOPE Engine 2 EXPRESSSCOPE Engine 3 or EMS (Embedded Manager Software). "BMC (EE)": means that the managed component pre-contains EXPRESSSCOPE Engine or EXPRESSSCOPE Engine 2. 							
	"BMC (EE3)":	means that the managed component pre-contains EXPRESSSCOPE Engine 3.						
	"iLO":	means that the managed component pre-contains iLO.						
	"BMC(Other)":	means that the managed component pre-contains EMS.						
Standard LAN2:	"Supported" means that MC and system BIOS on the managed component can communicate the NEC ESMPRO Manager via standard LAN port 2. (Advanced Remote Management Card, the function which is equal to Advanced Remote Management Card or EXPRESSSCOPE Engine series uses a dedicated LAN port, not use standard LAN port on the managed component.)							
Management LAN Port:	"Use" means that MC on the managed component uses a Management LAN Port. "-" means that BMC on the managed component uses a standard LAN Port.							
Remote Console:	"Supported" means that the managed component supports the Remote Console function.							
Scheduled Running:	"Supported" means that the managed component supports the scheduled running function.							
Power option setting:	"Supported" means that the managed component supports the "Power Restore Delay" function.							
SOL:	"Supported" means t of the system actuali	hat the managed component supports the SOL (Serial over LAN. A kind zing remote console function.)						
force network- boot:	"Supported" means function, by which N a network boot regar * It can operator the	that the managed component supports the "force network-boot" EC ESMPRO Manager can indicate the managed component to force rdless of the boot order in Bios Setup menu. command line interface of NEC ESMPRO Manager.						

Electric Power Management	"Supported" means that the managed component supports the "Electric Power Management" function.											
ECO Setting	"Supported" means that the managed component supports the "ECO Setting" function.											
Redfish	"Supported" means that the connection method to the component supports Redfish.											
Notes:	Refer the note number of the section "Notes for Each Managed Component".											

Component which is installed BMC

Express5800/100 series (Tower/Rack Server)

Product name	МС Туре	Standard LAN2	Managem ent LAN Port	Remote Console	Scheduled running	Power option setting	SOL	Electric Power Managem ent	ECO Settin g	force network boot	Notes
110Ek	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	2-(a)
110EI	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	2-(a)
110GR-1d	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	
110Rb-1h	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	2-(a)
110Rc-1h	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	2-(a)
110Rh-1	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	
110Ri-1	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	
120Eh	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	2-(a)
120Ei	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	2-(a)
120Gc	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	2-(a)
120Gd	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	2-(a)
120Li	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	2-(a)
120Lj	BMC(EE)	-	use	supported	supported	supported	supported	supported	-	supported	2-(a)
120Rg-1	BMC(EE)	-	use	supported	supported	supported	supported	supported	-	supported	
120Rh-1	BMC(EE)	-	use	supported	supported	supported	supported	supported	-	supported	
120Ri-2	BMC(EE)	-	use	supported	supported	supported	supported	supported	-	supported	
120Rj-2	BMC(EE)	-	use	supported	supported	supported	supported	supported	-	supported	
140Rf-4	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	

Product name	МС Туре	Standard LAN2	Managem ent LAN Port	Remote Console	Scheduled running	Power option setting	SOL	Electric Power Managemen t	ECO Setting	force network boot	Notes
R110a-1	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	
R110b-1	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	
R110c-1	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	
R110d-1E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R110d-1M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R110e-1E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R110e-1M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R110f-1E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R110h-1	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R110i-1	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120a-1	BMC(EE)	-	use	supported	supported	supported	supported	supported supported		supported	
R120a-2	BMC(EE)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120b-1	BMC(EE)	-	use	supported	supported	supported	supported	supported	supported supporte		
R120b-2	BMC(EE)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120d-1E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120d-2E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120d-1M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120d-2M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120e-1E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120e-2E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120e-1M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120e-2M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120f-1M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120f-2M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120g-1M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120g-2M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120f-1E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120f-2E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R120g-1E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	

Product name	МС Туре	Standard LAN2	Manageme nt LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Management	ECO Setting	force network boot	Notes
R120g-2E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R140a-4	BMC(EE)	-	use	supported	supported	supported	supported	-			
R140b-4	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	
E120d-1	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
E120d-M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
E120e-M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
E120f-M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
E120g-M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
T110a	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	
T110b	BMC(EE)	-	use	supported	supported	supported	supported	supported	supported	supported	
T110c	BMC(EE)	-	use	supported	supported	supported	supported	supported	supported	supported	
T110d	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
T110e-M	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
T110f-E	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
T110f-S	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
T110h	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
T110h-S	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
T120a-E	BMC(EE)	-	use	supported	supported	supported	supported	supported	supported	supported	
T120a-M	BMC(EE)	-	use	supported	supported	supported	supported	supported	supported	supported	
T120b-M	BMC(EE)	-	use	supported	supported	supported	supported	supported	supported	supported	
T120d	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
T120e	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
T120f	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
T120g	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
T110i	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
T110i-S	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)

Express5800/Blade Server

Product name	МС Туре	Standard LAN2	Managem ent LAN Port	Remote Console	Scheduled running	Power option setting	SOL	Electric Power Management	ECO Setting	force network boot	Notes
120Bb-6	BMC(EE)	-	supported	supported	supported	supported	supported	-	-	supported	3-(a)
120Bb-d6	BMC(EE)	-	supported	supported	supported	supported	supported	-	-	supported	3-(a)
120Bb-m6	BMC(EE)	-	supported	supported	supported	supported	supported	-	-	supported	3-(a)
140Ba-10	BMC(EE)	-	supported	supported	supported	supported	supported	-	-	supported	3-(a)
B110d	BMC(EE3)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(b)
B120a	BMC(EE)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(a)
B120a-d	BMC(EE)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(a)
B120b	BMC(EE)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(a)
B120b-d	BMC(EE)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(a)
B120b-Lw	BMC(EE)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(a)
B120b-h	BMC(EE)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(a)
B120d	BMC(EE3)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(b)
B120e	BMC(EE3)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(b)
B120f	BMC(EE3)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(b)
B120d-h	BMC(EE3)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(b)
B120e-h	BMC(EE3)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(b)
B120f-h	BMC(EE3)	-	supported	supported	supported	supported	supported	supported	-	supported	3-(b)
B140a-T	BMC(EE)	-	supported	supported	supported	supported	supported	-	-	supported	3-(a)

				/							
Product name	МС Туре	Stand ard LAN2	Managem ent LAN Port	Remote Console	Scheduled running	Power option setting	SOL	Electric Power Management	ECO Setting	force network boot	Notes
E110b-M	BMC(EE)	-	supported	supported	supported	supported	supported	supported	-	supported	
E110d-1	BMC(EE3)	-	supported	supported	supported	supported	supported	supported	supported	supported	
E120a [NE1100-001Y, NE1100-002Y, NE1100-001PY]	BMC	-	supported	supported	-	-	supported	supported	-	-	2-(e), 2-(f)
E120b-1	BMC(EE)	-	supported	supported	supported	supported	supported	-	-	supported	
E120b-M [NE1200-001Y, NE1200-002Y, NE1200-003Y1	BMC	-	supported	supported	-	-	supported	supported	-	-	2-(e), 2- (f)

Express5800/ECO CENTER (Energy Efficient Server)

Fault tolerant server

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
R320c-E4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R320c-M4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R320d-M4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R320e-E4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R320e-M4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R320f-E4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R320f-M4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R320g-M4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R320g-E4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R310g-E4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R320h-M4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R320h-E4	BMC (EE3)	-	use	-	supported	supported	-	-	-	supported	
R32Ba-E2	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
Express5800/iModel (Data Center Server)

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
i110Rh-1	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	
i110Ri-1	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	
i120Ra-e1	BMC(EE)	-	use	supported	supported	supported	supported	-	supported	supported	
iR110a-1	BMC(EE)	-	use	supported	supported	supported	supported	-	-	supported	
iR110a-1H	BMC(EE)	-	use	supported	supported	supported	supported	-	supported	supported	
iR120a-1E	BMC(EE)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)

Express5800/ Low cost entry model (G Model)

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
GT110d	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
GT110e	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
GT110f	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
GT110d-S	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
GT110e-S	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
GT110f-S	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
GT110h	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
GT110i	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	2-(a)
GT120a	BMC(EE)	-	use	supported	supported	supported	supported	supported	supported	supported	
GT120b	BMC(EE)	-	use	supported	supported	supported	supported	supported	supported	supported	

Express5800/office rack server

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
R110a-1H	BMC(EE)	-	use	supported	supported	supported	supported	-	supported	supported	

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
HR120a-1	BMC	-	use	supported	-	-	supported	supported	-	-	1-(a),1-(b),2-(c),2-(d), 2-(i)
HR120b-1	BMC	-	use	supported	-	-	supported	supported	-	-	1-(a),1-(b),2-(c),2-(d), 2-(i)
HR110c-M	BMC	-	use	supported	-	-	supported	supported	-	-	1-(a),1-(b),2-(c),2-(d), 2-(i)

Express5800/The highly parallel computing server

NEC Scalable Modular Server

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
DX2000 (Server module)	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	1-(a),1-(b)
DX2000 (CSC module)	BMC (EE3)	-	use	-	-	-	-	supported	-	-	1-(a),1-(b),2-(b),2-(c), 2-(i),2-(j)

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
A1020a	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A1020b	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A1080a-D	BMC	-	use	supported	supported	-	supported	supported	supported	-	2-(d),2-(g)
A1080a-E	BMC	-	use	supported	supported	-	supported	supported	supported	-	2-(d),2-(g)
A1080a-S	BMC	-	use	supported	supported	-	supported	supported	supported	-	2-(d),2-(g)
A1040a	BMC	-	use	supported	supported	-	supported	supported	supported	-	2-(d),2-(g)
A1040b	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A2010b	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A2020b	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A2040b	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R140e-4	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A1040c	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A2010c	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A2020c	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A2040c	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
R140f-4	BMC(EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A1040d	BMC(EE3)		use	supported	supported	supported	supported	supported	supported	supported	
A2010d	BMC(EE3)		use	supported	supported	supported	supported	supported	supported	supported	
A2020d	BMC(EE3)		use	supported	supported	supported	supported	supported	supported	supported	
A2040d	BMC(EE3)		use	supported	supported	supported	supported	supported	supported	supported	
R140g-4	BMC(EE3)		use	supported	supported	supported	supported	supported	supported	supported	
A1040e	BMC(EE3)		use	supported	supported	supported	supported	supported	supported	supported	
A2040e	BMC(EE3)		use	supported	supported	supported	supported	supported	supported	supported	
R140h-4	BMC(EE3)		use	supported	supported	supported	supported	supported	supported	supported	

Express5800/Scalable HA Server (Expandable Enterprise Server)

Express5800/many core server

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Manageme nt	ECO Setting	force network boot	Notes
HR120a-1	BMC	-	use	supporte d	-	-	supporte d	supported	-	-	2-(c),2-(d),2-(h)
HR120b-1	BMC	-	use	supporte d	-	-	supporte d	supported	-	-	2-(c),2-(d),2-(h)
HR110c-M	BMC	-	use	supporte d	-	-	supporte d	supported	-	-	2-(c),2-(d),2-(h)

Express5800/Appliance server

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Manageme nt	ECO Setting	force network boot	Notes
CS300e	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
CS300f	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
CS300g	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
CS400g	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
CS400h	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
CS500e	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	-	supported	
CS500f	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	-	supported	
FW300e	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	

FW500e	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	-	supported	
LB300e	BMC(EE)	-	use	supporte	supporte	supporte	supporte	-	-	supported	
LB300f	BMC(EE)	-	use	supporte	supporte d	supporte	supporte	-	-	supported	
LB300g	BMC(EE)	-	use	supporte	supporte d	supporte	supporte	-	-	supported	
LB400g	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
LB400h	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
MW300e	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
MW300f	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
MW300g	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
MW400g	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
MW400h	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
MW500e	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
MW500f	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	-	supported	
SG300e	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
VC300e	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
VC300f	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
VC300g	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
VC400g	BMC(EE)	-	use	supporte	supporte	supporte	supporte	supported	supported	supported	

				d	d	d	d				
VC400h	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	

Express5800/Off-continuity asset inheritance(600 series)

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Manageme nt	ECO Setting	force network boot	Notes
640xi [N8610-746 ,	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	2-(a)
N8610-749]	. ,										
650xi [N8610-756 , N8610-759]	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	2-(a)
670xi [N8610- 778]	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	2-(a)
680xi [N8610- 788]	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	2-(a)
690xi [N8610- 798]	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	2-(a)

Product name	МС Туре	Standard LAN2	Managem ent LAN Port	Remote Console	Scheduled running	Power option setting	SOL	Electric Power Manageme nt	ECO Setting	force network boot	Notes
V608-H			use	supported	supported	supported	supported	supported	supported	supported	
[N8610-1012,	BMC(EE3)	_									2-(2)
N8610-1022,	DINC(LL3)	_									z -(a)
N8610-1032]											<u> </u>
V608-L			use	supported	supported	supported	supported	supported	supported	supported	
[N8610-1011,	BMC(FE3)	_									2-(a)
N8610-1021,	Dino(LL0)										2 (u)
N8610-1031]											<u> </u>
V618-H			use	supported	supported	supported	supported	supported	supported	supported	
[N8610-905,											
N8610-906,											
N8610-915,	BMC(EE)	-									2-(a)
N8610-916,											
N8610-1005,											
N8610-1006]											
V618-H	BMC(EE3)		use	supported	supported	supported	supported	supported	supported	supported	
[N8610-1025,											
N8610-1026,		-									2-(a)
N8610-1035,											
N8610-1036]											ļ
V618-L			use	supported	supported	supported	supported	supported	supported	supported	
[N8610-903,											
N8610-904,											
N8610-913,	BMC(EE)	-									2-(a)
N8610-914,											
N8610-1003,											
N8610-1004]											┨────
V618-L	BMC(EE3)		use	supported	supported	supported	supported	supported	supported		
[N8610-1023,											
N8610-1024,		-									2-(a)
N8610-1033,											
N8610-10341	1	1	1		1	1	1	1	1	1	1 '

Product name	МС Туре	Standard LAN2	Managem ent LAN Port	Remote Console	Scheduled running	Power option setting	SOL	Electric Power Manageme nt	ECO Setting	force network boot	Notes
V628-H			use	supported	supported	supported	supported	supported	supported	supported	2-(a)
[N8610-908,		_									
N8610-918,	DIVIC(EE)	-									
N8610-1008]											
V628-H			use	supported	supported	supported	supported	supported	supported	supported	2-(a)
[N8610-1028,	BMC(EE3)	-									
N8610-1038]											
V628-L			use	supported	supported	supported	supported	supported	supported	supported	2-(a)
[N8610-907,	BMC(FF)	_									
N8610-917,	DINO(LL)	_									
N8610-1007]											
V628-L			use	supported	supported	supported	supported	supported	supported	supported	2-(a)
[N8610-1027,	BMC(EE3)	-									
N8610-1037]											
V640xi	BMC(EE)	-	use	supported	supported	supported	supported	supported	-	supported	2-(a)
V650xi	BMC(EE)	-	use	supported	supported	supported	supported	supported	-	supported	2-(a)
V670xi	BMC(EE)	-	use	supported	supported	supported	supported	supported	-	supported	2-(a)
V680xi	BMC(EE)	-	use	supported	supported	supported	supported	supported	-	supported	2-(a)
V690xi	BMC(EE)	-	use	supported	supported	supported	supported	supported	-	supported	2-(a)

iStorage NS series

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Manageme nt	ECO Setting	force network boot	Notes
NS47P	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	2-(a)
NS48P	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	2-(a)
NS49P	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	2-(a)
NS100Tb	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	2-(a)
NS100Td	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	2-(a)
NS100Tg	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	2-(a)
NS100Th	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	2-(a)
NS150h	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	2-(a)
NS300Ra	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
NS300Rb	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
NS300Rd	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
NS300Rg	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
NS300Rh	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
NS300Ta	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
NS300Tc	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	2-(a)

NS300Tf	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	2-(a)
NS460	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	-	-	supported	
NS470	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	-	supported	
NS480	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
NS500Ba	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	-	supported	3-(a)
NS500Ra	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
NS500Rb	BMC(EE)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
NS500Rc	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
NS500Rd	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	
NS500Rf	BMC(EE3)	-	use	supporte d	supporte d	supporte d	supporte d	supported	supported	supported	

NX7700x/Enterprise Server

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
A2010M-60	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A2010M-30	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A2010M-15	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A2010L-60	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A3012M-4	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A3012L-2	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A3012L-1	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A3010M-4	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A3010E-2	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
A4010E-2	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A4012M-4	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A4012L-2	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A4012L-1	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A4010M-4	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A4012L-2D	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A4012L-1D	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A5012M-4	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A5012L-2	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A5010M-4	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A5012L-2D	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A5012L-1D	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
A5012M-4 v2	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A5012L-2 v2	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A5010M-4 v2	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A5012L-2D v2	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	
A5012L-1D v2	BMC (EE3)	-	use	supported	supported	supported	supported	supported	supported	supported	

NEC Scalable Modular Server

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Manageme nt	ECO Setting	force network boot	Notes
DX2000 (server module)	BMC(EE3)	_	use	supported	supported	supported	supported	supported	supported	supported	
DX2000 (CSC module)	BMC(EE3)	_	use		_	_	_	supported	_	_	2-(b),2-(c), 2-(h),2-(i)

Component in which iLO is integrated <u>Express5800/100 series (Tower/Rack Server)</u>

Product name	МС Туре	Stand ard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
R120h-1M	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120h-2M	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120i-1M	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120i-2M	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120h-1E	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120h-2E	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
T120h	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R110j-1	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120h-1M(2nd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120h-2M(2nd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120h-1E(2nd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120h-2E(2nd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
T120h(2nd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120h-1M(3rd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120h-2M(3rd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R110j-1(2nd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R110j-1M	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R110k-1	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120h-1E(3rd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120h-2E(3rd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
T120h(3rd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120j-1M	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120j-2M	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R110k-1M	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
T110k-M	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R110m-1	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120j-1M(2nd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
R120j-2M(2nd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)

R110k-1M(2nd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
T110k-M(2nd-Gen)	iLO	-	use	-	-	-	-	supported	-	-	2-(h)

iStorage NS series

Product name	МС Туре	Stand ard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
NS500Ri	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
NS500Rj	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
NS300Ri	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
NS300Rj	iLO	-	use	-	-	-	-	supported	-	-	2-(h)

NX7700x/Enterprise Server

Product name	MC Type	Stand ard LAN2	Manage ment LAN Port	Remote Console	Schedule d running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Notes
A5010E-2	iLO	-	use	-	-	-	-	supported	-	-	2-(h)
A5010E-2 v2	iLO		use	-	-	-	-	supported	-	-	2-(h)
A6010E-2	iLO		use	-	-	-	-	supported	-	-	2-(h)
A7010E-2c	iLO		use	-	-	-	-	supported	-	-	2-(h)
A7010E-2	iLO		use	-	-	-	-	supported	-	-	2-(h)
A7012M-2	iLO		use	-	-	-	-	supported	-	-	2-(h)

CHECK:

• The component in which iLO is integrated is displayed in the screen of [Server Control], but you can't use the following function for the component.

.....

- [Remote Power Control] - [Power Cycle] and [OS Shutdown] *1

*1 When the component is registered with WS-Man management, you can use the function of [OS Shutdown].

Other company's iLO devices not made by NEC are not supported.

Component of BMC(Other)

Express5800/100 series (Tower/Rack Server)

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedul ed running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Redfish	Notes
D120h (Server module)	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	-	
D120h (CMC module)	BMC(Other)	-	use	-	-	-	-	-	-	-	-	
T110j	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	-	
T110j-S	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	-	
T110j(2nd-Gen)	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	-	
T110j-S(2nd-Gen)	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	-	
T110k	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	supported	
T110k-S	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	supported	
GT110j	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-		
T110m	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	supported	
T110m-S	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	supported	

iStorage NS series

Product name	МС Туре	Standard LAN2	Manage ment LAN Port	Remote Console	Schedul ed running	Power option setting	SOL	Electric Power Managem ent	ECO Setting	force network boot	Redfish	Notes
NS100Ti	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	-	
NS100Tj	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	-	
NS100Tk	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	supported	
NS100Tm	BMC(Other)	-	use	supported	-	supported	supported	supported	supported	-	supported	

<Notes for Each Managed Component>

This section explains the functional difference and notes of each managed component.

If note number for the managed component is displayed on the column "notes" of "Managed Components List", refer the notes of the note number.

- 1. About the connection type or the connection port.
- 2. About function
- 2-(a) This product has no function to identify the chassis like UID lamp, however "Identify Chassis" command of the NEC ESMPRO Manager is executer successfully.
- 2-(b) This product does not support remote console function.
- 2-(c) NEC ESMPRO Agent Extension or NEC DianaScope Agent cannot be installed on this product. Some functions of NEC ESMPRO Manager are not supported for the product if the functions need to communicate with NEC ESMPRO Agent Extension or NEC DianaScope Agent.
- 2-(d) BMC on this product cannot be configured using either NEC ESMPRO Agent Extension, NEC DianaScope Agent or NEC ESMPRO Manager PXE Service. Please refer to the user's guide that is attached in this product for BMC configuration.
- 2-(e) The power measurement for the server 1 reads a total of the server 1 and the server 2. The power measurement for the server 2 always reads 0.
- 2-(f) Please execute "check connection" for the managed component when BMC FW is updated on the managed component. If "check connection" is not executed, the remote console function may not run normally.
- 2-(g) If the managed component is Dual Server System, the power measurement for each server reads a total of the server 1 and the server 2.
- 2-(h) NEC ExpressUpdate Agent cannot be installed on this product. NEC ExpressUpdate of NEC ESMPRO Manager is not support for the product.
- 2-(i) Power consumption value of the whole enclosure is shown when power measurement is executed to CSC module.

When not wanting to do electric power measurement of the whole enclosure, Please set "Display Nominal Value" to the Power Measurement.

- 3. About the operation
- 3-(a) Please do not change the delay time on the Power Restore Delay function for this product. This product is turned on after the waiting time ((slot number 1) * 2sec). If the delay time is changed from 0 sec (the default value), the waiting time is not set correct value.
- 3-(b) NEC ESMPRO Manager does not change the power restore delay time for this product even if you order NEC ESMPRO manager to set the delay time. Because the waiting time ((slot number 1) * 2sec) should be guaranteed before this product is turned on.

EM Card

NEC ESMPRO Manager can get a blade enclosure information by communication with the following EM Card in the blade enclosure.

--EM Card [N8405-019A]

--EM Card [N8405-27]

--EM Card [N8405-043]

Power Bay

NEC ESMPRO Manager can manage the following Power Bay remotely.

--EcoPowerGateway [N8142-36F]

Component based on vPro

NEC ESMPRO Manager can manage Express5800/Workstation based on the vPro including the iAMT firmware version 6.0 and later.

Storage

iStorage(M series)

iStorage(M series) supported by iStorage (M series) NEC ESMPRO Manager relative module is described.

Details, Alive Monitoring and Configuring the iSM Server can be used.

Storage Details	:	Alive Monitoring Status, NEC Storage state, Disk Array Name, Monitoring,
		Resource State, Model Name, Version Information, Serial Number, IP Address,
		WebSAM iStorageManager
Storage Alive	:	Watch Status, Register Alert Upon No Response, Polling Interval, Max
Monitoring		Retries on Error $(0 - 100 \text{ number of times})$
Configuring the	:	Launch tool for Configuring the iSM Server
iSM Server		

* It is necessary that WebSAM iStorageManager 12.3 or later is installed on the server where NEC ESMPRO Manager is installed.

* For launching iSM client(Web GUI) from WebSAM iStorageManager link, license of WebSAM iStorageManager is required. Refer to the "ESMPRO Installation Tool User's Guide" for information about License management.

Note: After installation of WebSAM iStorageManager, if you execute following steps, Storage monitoring become disable.

- Re-installation of NEC ESMPRO Manager
- VersionUp for NEC ESMPRO Manager
- · Uninstall iStorage (M series) NEC ESMPRO Manager relative module

In the case, re-install iStorage (M series) NEC ESMPRO Manager relative module.

• iStorage(V series)

iStorage(V series) is described.

Details, Edit, Alive Monitoring and Storage System Management can be used.

Storage Details	:	Alive Monitoring Status, NEC Storage state, Disk Array Name, Monitoring, Resource State, Model Name, Version Information, Serial Number, IP Address, WebSAM iStorageManager
Edit	:	Component Name, Alias, IP Address 1, IP Address 2, User Name, Password
Storage Alive Monitoring	:	Watch Status, Register Alert Upon No Response, Polling Interval, Max Retries on Error $(0 - 100$ number of times)

Network Device

Network Devices that support SNMPv1 MIB-2, UNIVERGE IX serials, and UNIVERGE QX serials will be managed.

Detail, Edit, and Alive Monitoring can be used.

Detail	:	See "Detail" below about item displayed.
Edit	:	Component Name, Alias, IP Address, SNMP Community Name
Alive	:	Watch Status, Register Alert Upon No Response, Polling Interval, Max Retries on
Monitoring		Error $(0 - 100 \text{ number of times})$

Following items are displayed in"Detail".

Item	UNIVERGE	UNIVERGE	Network device
	IX series	QX series	
Machine Name	supported	supported	supported
Model Name	supported	supported	-
FW Version	supported	supported	-
Startup Time	supported	supported	supported
Location	supported	supported	supported
IP Address	supported	supported	supported
Description	supported	supported	supported
Temperature(C)	supported	-	-
Voltage(mV)	supported	-	-
Power Unit 1	supported	supported	-
Power Unit 2	supported	supported	-
Fan1	supported	supported	-
Fan2	supported	supported	-
Alive Monitoring Status	supported	supported	supported
CPU Usage(%)	-	supported	-
Memory Percent Used(%)	supported	supported	-
Interface	supported	supported	supported
Connection Status	supported	supported	supported
Туре	supported	supported	supported
Network speed(Mbps)	supported	supported	supported
Status Change Time	supported	supported	supported

supported: Display available. -: Display unavailable.

Note: It is different that displayed items according to device type.

Note: About the display for interface of UNIVERGE IX series on NEC ESMPRO Manager, port of SW-HUB is "interfaceName -x" (x is sequential number from 1).

Refer to examples of UNIVERGE IX series manual about interfaceName.

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The information displayed on the "Connection Status" of the "Interface" is determined by the combination of the current status of the interface (ifOperStatus) and the configuration information of the interface (ifAdminStatus) and please refer to status below. If the status displayed on NEC ESMPRO Manager is not the intended status, please change the interface configuration on the Network Device.

			ifAdmi	nStatus	
		Up (1)	Down (2)	Testing (3)	Others
	Up (1)	Normal	Not Monitored	Normal	Not Monitored
	Down (2)	Error	Not Monitored	Normal	Not Monitored
	Testing (3)	Warning	Not Monitored	Normal	Not Monitored
::0	Unknown (4)	Warning	Unknown	Unknown	Not Monitored
Status	Dormant (5)	Normal	Not Monitored	Normal	Not Monitored
Status	NotPresent (6)	Warning	Not Monitored	Normal	Not Monitored
	LowerLayerDown	Warning	Not Monitored	Warning	Not Monitored
	(7)				
	Others	Not Monitored	Not Monitored	Not Monitored	Not Monitored

The information displayed on the"Connection Status" of the "Interface".

Models supported by NEC ESMPRO Manager are following.

- TIPS:
 - If you want to register the model that is not supported by UNIVERGE IX series or UNIVERGE QX series, Model Name will not be displayed. Addition, the general traps sent by the device cannot be received by default.
- Stack connection of QX series is not supported.

UNIVERGE IX series

IX1010	IX1011	IX1020	IX1035	IX1035I
IX1036	IX1036I	IX1050	IX2003	IX2004
IX2005	IX2010	IX2015	IX2025	IX2105
IX2106	IX2200	IX2207	IX2215	IX2216
IX2235	IX2310	IX3010	IX3015	IX3110
IX3315				

UNIVERGE QX-S series

QX-S1008GT-2G	QX-S1008GT-2G-PW	QX-S1016GT-4G	QX-S1016GT-4G-PW
QX-S1024GT-4G	QX-S1024GT-4G-PW	QX-S1048GT-4G	QX-S1108GT-2G
QX-S1108GT-2G-PW	QX-S1116GT-4G	QX-S1116GT-4G-PW	QX-S1124GT-4G
QX-S1124GT-4G-PW	QX-S1148GT-4G	QX-S2008	QX-S2017
QX-S2026	QX-S2108	QX-S2109T-PW	QX-S2110P-I
QX-S3020TP	QX-S3026	QX-S3026C-BS	QX-S3026C-PW
QX-S3026E	QX-S3026T	QX-S3050	QX-S3109T-BS
QX-S3109TP	QX-S3117T-BS	QX-S3118TP	QX-S3126C-BS
QX-S3126T-BS	QX-S3126TP	QX-S3209TP	QX-S3209TP-PW
QX-S3218TP	QX-S3218TP-PW	QX-S3226TP	QX-S3226TP-PW
QX-S3309TP	QX-S3318TP	QX-S3318TP-PW	QX-S3326TP
QX-S3326TP-PW	QX-S3408FT-2G	QX-S3408FT-2G-PW	QX-S3416FT-2G
QX-S3416FT-4G-PW	QX-S3424FT-4G	QX-S3424FT-4G-PW	QX-S3448FT-4G
QX-S3526	QX-S3528P	QX-S3552P	QX-S3628P
QX-S3628TP-BS	QX-S3652P	QX-S3652P-BS	QX-S3652P-BS-PW
QX-S3710P	QX-S3828TP	QX-S3828TP-BS	QX-S3852TP
QX-S3852TP-BS	QX-S4009P	QX-S4009P-PW	QX-S4020P
QX-S4028P	QX-S4028P-PW	QX-S4052P	QX-S4108GT-2G
QX-S4108GT-2G-I	QX-S4108GT-2G-PW	QX-S4108GT-2G-PW-I	QX-S4116GT-4G
QX-S4116GT-4G-PW	QX-S4124GT-4G	QX-S4124GT-4G-PW	QX-S4148GT-4G
QX-S4148GT-4G-PW	QX-S4308XT-2X	QX-S4308XT-2X-PW	QX-S4312XT-4X-PW

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QX-S4314XT-2X	QX-S4508GT-4G-I	QX-S4808XT-2X	QX-S4814XT-2X
QX-S5012G	QX-S5012T	QX-S5024G	QX-S505MT-2X-PW
QX-S510MT-2X-PW	QX-S5116P	QX-S5124GP-4X	QX-S5124GT-4X
QX-S5124GT-4X-PW	QX-S5124P	QX-S5126P-PW	QX-S5148GT-4X
QX-S5148GT-4X-PW	QX-S5148P	QX-S5224GP-4X	QX-S5224GT-4X
QX-S5224GT-4X-PW	QX-S5226P	QX-S5248GT-4X	QX-S5248GT-4X-PW
QX-S5250P	QX-S5324GT-4X1C	QX-S5327P	QX-S5348GT-4X1C
QX-S5351P	QX-S5432XT-8X2Q	QX-S5448XP-4Q	QX-S5516
QX-S5524GP-4X1C	QX-S5524GT-4X1C	QX-S5524GT-4X2Q	QX-S5526P
QX-S5526P(DC)	QX-S5526T	QX-S5548GT-4X1C	QX-S5548GT-4X2Q
QX-S5550P	QX-S5624GP-4X1C	QX-S5624GT-4X1C	QX-S5625P
QX-S5625T	QX-S5628GT-4X2Q	QX-S5648GT-4X1C	QX-S5648GT-4X2Q
QX-S5649P	QX-S5732P	QX-S5756P	QX-S5824XP-2Q2C
QX-S5828T	QX-S5948GT-4X2Q	QX-S5948XP-4Q	QX-S5948XT-4Q
QX-S6502-XG	QX-S6503	QX-S6503-XG	QX-S6506
QX-S6506R	QX-S6506R-XG	QX-S6506-XG	QX-S6632QP
QX-S6648XP-6Q	QX-S6648XT-6Q	QX-S6832-QP	QX-S708B
QX-S708E	QX-S716BP	QX-S716EP	QX-S724BP
QX-S724EP	QX-S7502R	QX-S7503R	QX-S7506R
QX-S808E	QX-S810EP-PW	QX-S816EP	QX-S816EP-PW
QX-S824EP	QX-S4824XT-1C	QX-S6748XP-6H	QX-S6748XT-6H
QX-S7532HP	QX-S708GT-2X-PW	QX-S716GT-4X-PW	

UNIVERGE QX-W series

QX-W1010	QX-W1020	QX-W1030	QX-W1030-ANCHOR
QX-W1120	QX-W1130	QX-W2120AC	QX-W2230AC
QX-W1110	QX-W610	QX-W1240	QX-W2330AC

UNIVERGE PF series

PF5459-48GT-4X2Q PF5459-48XP-4Q PF5459-48XT-4Q PF5468-32QP
--

UNIVERGE QX-R series

QX-R2809	QX-R2810	QX-R2811	QX-R2830
QX-R2831	QX-R2840	QX-R2880	

UNIVERGE IX-R series

IX-R2530

UNIVERGE IX-V series

IX-V100

Other Computer Device

Servers or PC with following operating system is described.

- Windows Server 2022
- Windows Server 2019
- Windows Server 2016
- Windows 11
- Windows 10
- Red Hat Enterprise Linux 9
- Red Hat Enterprise Linux 8
- Red Hat Enterprise Linux 7

Detail, Remote Control, Edit and Alive Monitoring can be used.

:	Alive Monitoring Status
	System
	OS Name, Version, System Name, System Manufacturer, System Model
	BIOS
	Manufacturer Name, Version, Release Date
	Hardware
	CPU Name, Clock Speed、Max Core Counts, Number of Logical CPUs,
	Number of Physical CPUs, Total Capacity of Physical Memory, Available
	Capacity of Physical Memory, Total Capacity of Disk
:	Shutdown, Shutdown Reboot
:	Watch Status, Register Alert Upon No Response, Polling Interval, Max Retries on Error $(0 - 100 \text{ number of times})$
	:

Appendix E. Means to perform REST API using a sample script

NEC ESMPRO Manager uses REST API to manage ExpEther. A sample script of a ruby is prepared to perform REST API.

There is a sample script of 3 of REST API.

- Discovery ExpEther Manager API
- Deletion ExpEther Manager API
- Get ExpEther Manager list API

Prepare

Ruby has to be installed in the management PC of NEC ESMPRO Manager.

Edit sample script

A sample script has a parameter and sets the information which accesses NEC ESMPRO Manager and request data of each API as a parameter.

Therefore edit these parameters according to the environment beforehand.

A parameter with the necessity to edit is indicated in the following.

(1) search_eem.rb

This script perform "Discovery ExpEther Manager API". Correct the following parameter according to the environment.

- HOST

Write host or IP address of NEC ESMPRO Manager. Ex) IP Address of NEC ESMPRO Manager is "192.168.1.1" HOST="192.168.1.1" The same host as NEC ESMPRO Manager. HOST="localhost"

- PORT

Write the port number NEC ESMPRO Manager is using. An initial value of port number of NEC ESMPRO Manager is "21112". Ex) PORT=21112

- login_account

Write user name and password of NEC ESMPRO Manager Account. Ex) login_account = {'user'=>'Administrator', 'password'=>'Password'}

- request_data

Write a request of "Discovery ExpEther Manager API". Refer to "Diascovery ExpEther Manager API" in "NEC ESMPRO Manager Ver.6 RESTful API Reference" for details of a request.

(2) delete_eem.rb

This script perform "Deletion ExpEther Manager API". Correct the following parameter according to the environment.

- HOST

This parameter is same as a "Discovery ExpEther Manager API".

- PORT

This parameter is same as a "Discovery ExpEther Manager API".

- login_account This parameter is same as a "Discovery ExpEther Manager API".
- name Write a target ExpEther Manager name.

(3) list_eem.rb

This script perform "Get ExpEther Manager list API". Correct the following parameter according to the environment.

- HOST

This parameter is same as a "Discovery ExpEther Manager API".

- PORT

This parameter is same as a "Discovery ExpEther Manager API".

- login_account

This parameter is same as a "Discovery ExpEther Manager API".

Sample code

```
(1) search_eem.rb
```

NEC ESMPRO Manager REST API Sample

require 'openssl' require 'base64' require 'net/http' require 'json'

```
session_id = nil
```

def make_header(session_id=nil)
httpheader = {};

```
httpheader['X-ESMPRO-API-Version'] = "1.0";
httpheader['Content-Type'] = "application/json; charset=utf-8";
httpheader['Cookie'] = "JSESSIONID=#{session_id}" if session_id != nil;
```

```
return httpheader;
end
```

def send_restreq(method ,session_id, url, req_body)

response = nil
http = Net::HTTP.new(HOST,PORT);

req_header = make_header(session_id);

```
if (method == :post)
time1 = Time.now;
response = http.post(url, req_body.to_json, req_header);
time2 = Time.now;
time3 = time2 - time1;
```

```
end
if (method == :get)
time1 = Time.now;
response = http.get(url,req header);
time2 = Time.now;
time3 = time2 - time1;
end
if (method == :delete)
transaction = Net::HTTP::Delete.new(url,req_header);
time1 = Time.now;
response = http.request(transaction)
time2 = Time.now;
time3 = time2 - time1;
end
if (req body == nil)
req body = \{\};
end
puts "------
                                                 _____
puts "---- Request Data -----"
print(" Method : ", method, "¥n");
print(" URL
                         : ", url, "¥n");
print(" Request Header : ", req_header, "¥n");
print(" Session ID : ", session_id, "¥n");
print(" Request Time : ", time1, "¥n");
                        : ", req_body, "¥n");
print(" Request Body
puts "---- Response Data -----"
print(" Status Code : ", response.code, " ", response.message, "¥n");
#print(" Response Header : ", response.header, "¥n");
print(" Response Body : ", response.body, "¥n");
print(" Response Time : ", time2, "¥n");
print(" Elapsed Time : ", time3, "¥n");
puts "-----"
if (response.body == "")
return nil
else
res_body = JSON.parse(response.body);
end
end
# Login
login_url = "/esmpro/api/login-session";
count = 0;
result = send_restreq(:post ,nil, login_url, login_account);
session_id = result['sessionId'];
# Discover EEM
url = "/esmpro/api/eem"
result = send_restreq(:post ,session_id, url, request_data);
```

```
jobstate url = result['url'];
```

```
while true do
    # Job status
    result = send_restreq(:get ,session_id, jobstate_url, nil);
    if ( result['jobStatus'] == "Running" || result['jobStatus'] == "Waiting")
        sleep(1);
    elsif ( result['jobStatus'] == "Completed" )
        # Job result
        result_url = result['url'];
        result = send_restreq(:get ,session_id, result_url, nil);
        break;
    else
        break;
    end
end
```

Logout

result = send_restreq(:delete ,session_id, login_url, nil);

```
(2) delete_eem.rb
```

```
#
# NEC ESMPRO Manager REST API Sample
#
```

require 'openssl' require 'base64' require 'net/http' require 'json'

 $session_id = nil$

```
def make_header(session_id=nil)
httpheader = {};
```

```
httpheader['X-ESMPRO-API-Version'] = "1.0";
httpheader['Content-Type'] = "application/json; charset=utf-8";
httpheader['Cookie'] = "JSESSIONID=#{session_id}" if session_id != nil;
```

```
return httpheader;
end
```

def send_restreq(method ,session_id, url, req_body)

response = nil http = Net::HTTP.new(HOST,PORT);

req_header = make_header(session_id);

```
if (method == :post)
time1 = Time.now;
response = http.post(url, req_body.to_json, req_header);
time2 = Time.now;
time3 = time2 - time1;
end
```

```
if (method == :get)
time1 = Time.now;
response = http.get(url,req_header);
time2 = Time.now;
```

```
time3 = time2 - time1;
end
if (method == :delete)
transaction = Net::HTTP::Delete.new(url,req_header);
time1 = Time.now;
response = http.request(transaction)
time2 = Time.now;
time3 = time2 - time1;
end
if (req body == nil)
req body = \{\};
end
puts "------
puts "---- Request Data -----"
print(" Method : ", method, "¥n");
print(" URL
                         : ", url, "¥n");
print(" Request Header : ", req_header, "¥n");
print(" Session ID : ", session_id, "¥n");
print(" Request Time : ", time1, "¥n");
print(" Request Body : ", req body, "\u00e4n");
puts "---- Response Data -----"
print(" Status Code : ", response.code, " ", response.message, "¥n");
#print(" Response Header : ", response.header, "¥n");
print(" Response Body : ", response.body, "\u00e4n");
print(" Response Time : ", time2, "¥n");
print(" Elapsed Time : ", time3, "¥n");
puts "-----"
if (response.body == "")
return nil
else
res body = JSON.parse(response.body);
end
end
# Login
login url = "/esmpro/api/login-session";
count = 0;
result = send_restreq(:post ,nil, login_url, login_account);
session id = result['sessionId'];
# Delete EEM
url = "/esmpro/api/eem"
resource = url + "?name=" + name
result = send_restreq(:delete ,session_id, resource, nil);
# Logout
result = send_restreq(:delete ,session_id, login_url, nil);
```

(3) list_eem.rb

```
#
# NEC ESMPRO Manager REST API Sample
#
```

require 'openssl' require 'base64' require 'net/http' require 'json'

 $session_id = nil$

```
def make_header(session_id=nil)
httpheader = {};
```

```
httpheader['X-ESMPRO-API-Version'] = "1.0";
httpheader['Content-Type'] = "application/json; charset=utf-8";
httpheader['Cookie'] = "JSESSIONID=#{session_id}" if session_id != nil;
```

```
return httpheader;
end
```

def send_restreq(method ,session_id, url, req_body)

response = nil http = Net::HTTP.new(HOST,PORT);

req_header = make_header(session_id);

```
if (method == :post)
time1 = Time.now;
response = http.post(url, req_body.to_json, req_header);
time2 = Time.now;
time3 = time2 - time1;
end
```

```
if (method == :get)
time1 = Time.now;
response = http.get(url,req_header);
time2 = Time.now;
```

```
time3 = time2 - time1;
end
if (method == :delete)
transaction = Net::HTTP::Delete.new(url,req_header);
time1 = Time.now;
response = http.request(transaction)
time2 = Time.now;
time3 = time2 - time1;
end
if (req body == nil)
req body = \{\};
end
puts "===
         puts "---- Request Data -----"
print(" Method : ", method, "¥n");
print(" URL
                         : ", url, "¥n");
print(" Request Header : ", req_header, "¥n");
print(" Session ID : ", session_id, "¥n");
print(" Request Time : ", time1, "¥n");
print(" Request Body : ", req body, "\u00e4n");
puts "---- Response Data -----"
print(" Status Code : ", response.code, " ", response.message, "¥n");
#print(" Response Header : ", response.header, "¥n");
print(" Response Body : ", response.body, "\u00e4n");
print(" Response Time : ", time2, "¥n");
print(" Elapsed Time : ", time3, "¥n");
puts "-----"
if (response.body == "")
return nil
else
res body = JSON.parse(response.body);
end
end
# Login
login url = "/esmpro/api/login-session";
count = 0;
result = send_restreq(:post ,nil, login_url, login_account);
session id = result['sessionId'];
# List EEM
url = "/esmpro/api/eem"
result = send_restreq(:get ,session_id, url, nil);
# Logout
result = send_restreq(:delete ,session_id, login_url, nil);
```

Appendix F. View Windows Admin Center screen

Provides step-by-step instructions on how to view the Windows Admin Center from NEC ESMPRO Manager. Please use Microsoft Edge as your browser to use this function.

Windows Admin Center can be installed from installation media downloaded from the web. There are two methods available:

1. The procedure to display "Linkage" of server on "Component List"

[Premise]

• The managed server registered by OS IP address with Windows Server 2016 / 2019 / 2022 and "Type" is "Server".

- The managed server registered by OS IP address with Windows Server 2016 / 2019 / 2022 / Windows 10/ 11 and "Type" is "Other Computer Device".
- Windows Admin Center Version2009 or later

The procedure is executed on the PC for management where NEC ESMPRO Manager is installed.

- (1) Edit the configuration file.
 - Logout from NEC ESMPRO Manager.

Use the comment line that begins with the following file to specify the Windows Admin Center host name (or IP address) and port number.

%ESMPRO%¥ESMWEB¥wbserver¥webapps¥esmpro¥WEB-INF¥service¥alertviewer¥WindowsAdminCenter_settings.txt

* %ESMPRO% : where to install NEC ESMPRO Manager * The default value for installs NEC ESMPRO Manager is < C:/Program Files (x86)/ESMPRO>

- (2) Component registration Login to NEC ESMPRO Manager. Register the server that can display Windows Admin Center screen.
- (3) The link to Windows Admin Center Click "Windows Admin Center" link of "Linkage" of server on "Component List". Please enter the account for the Windows Admin Center server on the authentication screen.

- 2. The procedure to display Windows Admin Center screen from NEC ESMPRO Manager Alert Viewer [Premise]
 - The managed server with Windows Server 2016 / 2019 / 2022, integrated NEC iLO.

Verify that NEC ESMPRO Extension for Windows Admin Center(*1) is installed in Windows Admin Center.

(*1) THE NEC ESMPRO Extension for Windows Admin Center is an extension that displays information about the hardware of the NEC Express5800 server to the Windows Admin Center.

The procedure is executed on the PC for management where NEC ESMPRO Manager is installed.

(1) Edit the configuration file.

Logout from NEC ESMPRO Manager.

Use the comment line that begins with the following file to specify the Windows Admin Center host name (or IP address) and port number.

%ESMPRO%¥ESMWEB¥wbserver¥webapps¥esmpro¥WEB-INF¥service¥alertviewer¥WindowsAdminCenter settings.txt

* %ESMPRO% : where to install NEC ESMPRO Manager
 * The default value for installs NEC ESMPRO Manager is < C:¥Program Files (x86)¥ESMPRO¥>

(2) Component registration

Login to NEC ESMPRO Manager.

Register the Component in which iLO is integrated with enabling system management(WS-Man) and MC management(iLO) on NEC ESMPRO Manager.

*The OS of integrates iLO is a Windows OS for servers such as Windows Server 2019 etc. that support Windows Admin Center.

(3) The link to EC ESMPRO Extension for Windows Admin Center Make sure that there are alerts for the device on the alert list screen. Click the Components section of the alert to display the LINKED NEC ESMPRO Extension for Windows Admin Center screen.

Appendix G. configure the NEC ICT Device Visualize Service Agent

Here are the steps to display or configure the information of the NEC ICT Device Visualize Service Agent from NEC ESMPRO Manager.

[Premise]

• Managed servers with Windows Server 2016/2019/2022, NEC ESMPRO ServerAgentService Ver2.3 or above installed, and NEC ICT Device Visualize Service Agent installed.

• NEC ICT Device Visualize Service Agent is running with child mode.

CHECK :

Independent mode of NEC ICT Device Visualize Service Agent is not supported.

Please perform these steps on the management PC where NEC ESMPRO Manager is installed.

(1) Component registration

Login to NEC ESMPRO Manager.

Enable the System Management (WS-Man) and register managed device in NEC ESMPRO Manager.

(2) Display the settings screen

On the "Component List", click on the "NEC ICT Device Visualize Service Agent" link on the "Linkage" of the registered server.

(3) Settings of NEC ICT Device Visualize Service Agent Configure the NEC ICT Device Visualize Service Agent on its settings screen. For more details, please refer to the online help for NEC ESMPRO Manager.

(3) URL

NEC ESMPRO ServerAgentService https://www.58support.nec.co.jp/global/download/index.html

Appendix H. EThe procedure to execute a Test Report by using the Event log monitoring(Windows) or Syslog monitoring(Linux) of NEC ESMPRO Agent or NEC ESMPRO ServerAgentService

■ Event log monitoring(Windows)

(1) Start "NEC ESMPRO Agent" from "Control Panel", and click "Report Setting" in "NEC ESMPRO Agent".

If NEC ESMPRO ServerAgentService, click "Report Setting" from "Start".

(2) Expand the "EventLog" tree on the left of the "Alert Manager" screen.

(3) Right-click on the event ID and select "Test".

Note that you cannot perform a "Test" if no "Report Destination" (Manager, SNMP, TCP/IP In-Band, CIM-Indication) is specified for that event ID.

(4) When "Are you sure you want to write a test event?" is displayed, click "OK".

The test event will be registered into the event log.

The Event log monitoring will immediately detect and report to reporting destination(s) about the test event.

<Additional Information>

If the channel is undefined or a channel other than the focused channel is defined, a reporting test cannot be performed.

In the case, even if a reporting test is performed, one of the followings will happen:

- An error message will be displayed.

- Events from the channel other than the focused channel will be registered into Event log.
- No event will be registered into Event log.
- Syslog monitoring(Linux)
- (1) Login with the root user.
- (2) Move to the directory where the Control Panel (ESMamsadm) is installed.
- # cd /opt/nec/esmpro_sa/bin/
- (3) Launch ESMamsadm. # ./ESMamsadm
- (4) Launch ESMamsadm and choose "Syslog Events Setting".
- (5) Choose any you prefer from "Source". (Choose by " \uparrow " or " \downarrow ")
- (6) Check "OFF" for "Operation on source".

(Set this using the space key.)

- (7) Choose any event ID in the "Event ID" field.
 (Choose by "↑" or "↓")
- (8) Press the "Settings..." to open the "Syslog Application Setting" screen.

Confirm that the "Action After Report" is set to "None".

Confirm that the "Report to" is set to "SNMP".

If the "Action After Report" is set to "Shutdown" or "Reboot", the action will be executed.

(9) Press "ok" to return the "Syslog Application Setting" screen.

- (10) Press "Test" button.
 - The test message will be registered into the syslog. If the syslog Monitor Interval (default : 300 seconds) is exceeded, the test message will be detected and a reporting will be sent.

<Additional Information>

- When adding or deleting syslog events, or changing settings, it is necessary that reload the Syslog Event information.

Press "Close" button on the "Syslog Event Settings" screen to reload the Event information, and then perform the Test.

- For detailed operations such as the Control Panel (ESMamsadm), please refer to "NEC ESMPRO Agent (Linux) User's Guide".

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

E7.24-01-STD2024/11/15Revised the environment setting usage guide in chapters 1.3.1, 1.3.3.3, 3.3.1, and
4.3.1.1 has been changed from classic mode to ESMPRO SM7 UI.
Added IX-R2530 to UNIVERGE IX-R series of network devices in Appendix D.
Added IX-V100 to UNIVERGE IX-V series of network devices in Appendix D.
Added revision history.