

NEC ESMPRO Manager Ver.7 User's Guide Command Line Interface

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About This Document

This document introduces command line interface of the component management utility "NEC ESMPRO Manager".

Before attempting to operate the command line interface, read this document so as to gain an adequate understanding of the contents.

Attention

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.

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.

About Symbols in This Document

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

IMPORTANT:	Points that are mandatory or require attention when using the software or the
	component.
CHECK:	Points that are require confirmation when using the software or the component.
TIP:	Helpful and convenient piece of information.

About Font in This Document

The Italic font shows the option of command in this document.

■ For other information about the NEC ESMPRO Manager

See the documents below.

NEC ESMPRO Manager Ver.7 Installation Guide NEC ESMPRO Manager Ver.7 Setup Guide NEC ESMPRO Manager Ver.7 Command Line Interface User's Guide for NEC ExpressUpdate NEC ESMPRO Manager Ver.7 User's Guide RESTful API Reference

Chapter1 About Command Line Interface

The NEC ESMPRO Manager command line interface provides a set of commands that can control managed components through the command line from the management PC.

The set of commands covers a part of functions that can be executed by using the web browser.

CHECK:

- The set of commands mainly enables to execute functions by communication with BMC or NEC ESMPRO Agent Extension on the managed component. It does not support the functions that require NEC ESMPRO Agent or NEC ESMPRO Agent Service on the managed component.
- You cannot execute some commands for BMC (Other) or iLO. Refer to Appendix A. List of Support Commands for BMC (Other) or iLO component for more detail.
- You should not execute the command set for chassis sensor card. NEC ESMPRO Manager does NOT SUPPORT the command set for the chassis sensor card. Use "/exs" option to execute the command excluding the chassis sensor card if you execute the group management command for the group which the chassis sensor card.

The following commands are available:

- Group management Commands
 - Use to operate a group due to operate more than one managed components through a single operation.
- Component Management Commands Use to operate a managed component.
- EM Card Management Commands Use to operate an EM card.
- Chassis Management Commands Use to operate a chassis.
- Communication Management Commands
 Use to change settings for connection to a managed component via modem or directly.
- Environment Setting Commands
 Use to view and change the settings of NEC ESMPRO Manager.

 User Management Commands
 - Use to manage users who operate NEC ESMPRO Manager on web browser.
- Other Commands

1.1 System Requirements

The NEC ESMPRO Manager command line interface can be executed only on a management PC that is installed the NEC ESMPRO Manager.

Supported OS conforms to NEC ESMPRO Manager.

The NEC ESMPRO Manager command line interface requires following user level of operating system: On Windows: Administrator

CHECK:
In case of Windows, you need to set the permission to access to the directory including Command Line Interface execution file (dscli.exe). After setting the permission to access the directory, the standard user can also use Command Line Interface.
TIP:
See "NEC ESMPRO Manager Ver.7 Installation Guide" about the system requirement of NEC ESMPRO Manager.

1.2 How to Execute Commands

To execute a command, enter the command following the command prompt as shown below. dscli CommandName [Option, ...]

dscli:Indicates the NEC ESMPRO Manager command line interface commandCommandName:Enter the name of the command you want to execute.Option:Enter the option parameters defined for each command

1.2.1 Notes on Entering Commands

This section explains notes on entering commands

(1) When entering special characters:

If you input null string or special characters as option, enclose the option parameter between double quotation marks. The following shows examples:

Example1: Input null string

dscli setGroupProperty MyGroup GROUP_COMMENT ""

Example 2: Input special characters

dscli setServerProperty MyServer CFG_SERIAL_INIT "ATE1Q0V1X4&D2&C1S0=0"

(2) When entering MAC address:

MAC address that can be specified in "*Component*" of command option is the MAC address of LAN that BMC uses on the managed component. Input MAC address as hexadecimal number that is delimited to octets by a colon. The following shows an example:

dscli getServerProperty 00:30:13:16:cd:fe SERVER_IP_1

(3) When entering GUID:

Input GUID as hexadecimal number that is delimited to sections by a colon. The following shows an example:

dscli getServerProperty 80c03228:35d8:d711:8001:003013f10072 SERVER IP 1

CHECK:

• You can enter the command format that MAC address or GUID is specified as Server option after the "Check Connection" is performed for the server.

1.3 Execution Results

All the commands return the end status. If an error has occurred, they return an error message. The end status of all the commands is as follows:

0 Normal end Non Zero value Error end

If a command error occurs, a non-zero value will be returned as the end status and the error message will be displayed. Some error messages are displayed followed by an error cause message

TIP: • If a command is executed with a shell script, the end status can be confirmed with

"ERRORLEVEL" for Windows.

1.4 Example

The procedure to manage a component via LAN is as follows:

- (1) Creates a new component group using createGroup command.
- (2) Register a managed component using createServer command.
- (3) Perform a "Check Connection" for the managed component using checkConnection command.

You can manage the managed component after "Check Connection" is completed.

1.5 Executing Command from Two or More NEC ESMPRO Manager

As well as one component can be managed from two or more manager server, you can also execute command from two or more NEC ESMPRO Manager.

IMPORTANT:

• See "NEC ESMPRO Manager Ver.7 Installation Guide" about Notes.

Chapter2 Command Summary

2.1 Group management Commands

2.1.1 getList

Syntax:

```
dscli getList GroupName [/g] [/x]
```

Description:

Displays the list of groups and components registered under the specified group. If no appending option is specified, displays the groups and components just under the specified group.

Options:

GroupName

Specify the name of the group. If you want to display the groups and components under root, specify "root".

/g

Display only groups.

/x

Display the list under the specified group and its sub-groups.

Output:

Shows the example that the groups and components have following structure.



Displays the list of groups and components. The following shows an example.

>dscli getList root group1 <GROUP> group2 <GROUP> component1 group3 <GROUP> component2 component3

Displays the case specified "/g" option. The following shows an example.

>dscli getList root /g group1 <GROUP> group2 <GROUP> group3 <GROUP>

Displays the case specified "/x" option. The following shows an example.

>dscli getList root /x root group1 <GROUP> group11 <GROUP> component111 component11 group2 <GROUP> component1 group3 <GROUP> group31 <GROUP> component311 component31 component32 group32 <GROUP> component321 component322 component2 component3

Displays the case specified "/g" and "/x" option. The following shows an example.

>dscli getList root /g /x
root
 group1 <GROUP>
 group2 <GROUP>
 group3 <GROUP>
 group31 <GROUP>
 group31 <GROUP>
 group32 <GROUP>

2.1.2 createGroup

Syntax:

dscli createGroup GroupName [ParentGroupName]

Description:

Creates a new component group.

Options:

GroupName

Specify the group name to create. You can input up to 63 characters.

ParentGroupName

Specify the name of the parent group when the group is made under the group. If you create a group under root, specify "root" or omit this option.

TIP:

• The name of group that is already registered cannot be specified to *GroupName*

2.1.3 deleteGroup

Syntax: dscli deleteGroup GroupName

Description:

Deletes a specified group. All managed components and sub-groups in the group are also deleted.

Options:

GroupName

Specify the name of the group.

2.1.4 moveGroup

Syntax:

dscli moveGroup GroupName [ParentGroupName]

Description:

Move the specified group. All managed components and sub-groups in the group are also moved

Options:

GroupName

Specify the name of group.

ParentGroupName

Specify the name of the parent group to move to. If you move the group under root, specify "root" or omit this option.

2.1.5 setGroupProperty

Syntax:

dscli setGroupProperty GroupName PropertyName Value

Description:

Sets the property of a group.

Options:

GroupName

Specify the name of group.

PropertyName

Specify the name of the group property. The following is group property list:

Value

Specify a new value to be set. See the list below.

PropertyName	Contents	Value		Default	
	Specify the name of the group.	Up	to	63	(None)
		chara	cters.		
	Enter the comments of the group.	Up	to	255	(None)
		characters.			

TIP:

• The name of group that is already registered cannot be specified to GROUP_NAME.

2.1.6 getGroupProperty

Syntax:

dscli getGroupProperty GroupName PropertyName

Description:

Displays the property of a group.

Options:

GroupName

Specify the name of group.

PropertyName

Specify the name of group property. For the list of group properties, see the 2.1.5 setGroupProperty command

Output:

Display the property of a group.

2.1.7 getGroupStatus

Syntax:

dscli getGroupStatus GroupName

Description:

Displays the status of a specified component group. Among all component condition under the group, displays the worst condition as a status of the group.

Confirms the condition of component by component monitoring function.

Options:

GroupName

Specify the name of group.

Output:

Displays the status of the specified component group. There are following types of status.

ERROR	Error
WARNING	Warning
UNKNOWN	Unknown or connection error
DC-OFF	DC-OFF
NORMAL	Normal
NO_MONITORING	Out of monitoring

2.1.8 groupPowerOn

Syntax:

dscli groupPowerOn GroupName [/p] [/exs ComponentName1 ComponentName2 ... ComponentNameN] [/exg GroupName1 GroupName2 ... GroupNameN]

Description:

Turns on all managed components in a specified group. The managed components in the sub-group are also controlled.

IMPORTANT:
 In case that the managed component does not support a force network-boot function which boots the component from network regardless of boot order, a force network-boot function cannot be executed. See "NEC ESMPRO Manager Ver.7 Setup Guide Appendix D. Managed Components Summary" whether the managed component supports function.

CHECK:

• This command is not executed for the PowerBay, the EM card, and the switch blade.

Options:

GroupName

Specify the name of group.

If you want to control all the components under root, specify "root".

/p

Force boot from network after the power is turned on.

/exs

When you specify "/exs" option and the component name after it, the command is not executed on the specified component. You can specify plural component names.

```
/exg
```

When you specify "/exg" option and the group name after it, the command is not executed on the component under the specified group. You can specify plural group names.

Output:

If error has occurred, the name and the error message about each error-occurred managed component is displayed.

```
Component1

: Connection to the server could not be made. (Timeout)

Component2

: Connection to the server could not be made. (Authentication error)
```

2.1.9 groupPowerOff

Syntax:

```
dscli groupPowerOff GroupName [/exs ComponentName1 ComponentName2 ...
ComponentNameN] [/exg GroupName1 GroupName2 ... GroupNameN]
```

Description:

Forcibly turns off all managed components in a specified group. The managed components in the sub-group are also controlled.

IMPORTANT:

• Since remote power control using NEC ESMPRO Manager is provided by hardware regardless of the condition of operating system on the managed component, the system may be damaged. Be careful when you perform remote power control. Reconfirm the status of the managed component before power controls.

CHECK:

• This command is not executed for the PowerBay, the EM card, and the switch blade.

Options:

GroupName

Specify the name of group.

If you want to control all the components under root, specify "root".

/exs

When you specify "/exs" option and the component name after it, the command is not executed on the specified component. You can specify plural component names.

/exg

When you specify "/exg" option and the group name after it, the command is not executed on the component under the specified group. You can specify plural group names.

Output:

If error has occurred, the name and the error message about each error-occurred managed component is displayed.

```
Component1
  : Connection to the server could not be made. (Timeout)
Component2
  : Connection to the server could not be made. (Authentication error)
```

2.1.10 groupReset

Syntax:

```
dscli groupReset GroupName [/p] [/exs ComponentName1 ComponentName2 ...
ComponentNameN] [/exg GroupName1 GroupName2 ... GroupNameN]
```

Description:

Forcibly resets all managed components in a specified group. The managed components in the sub-group are also controlled.

IMPORTANT:

- Since remote power control using NEC ESMPRO Manager is provided by hardware regardless of the condition of operating system on the managed component, the system may be damaged. Be careful when you perform remote power control. Reconfirm the status of the managed component before power controls.
- In case that the managed component does not support a force network-boot function which boots the component from network regardless of boot order, a force network-boot function cannot be executed. See "NEC ESMPRO Manager Ver.7 Setup Guide Appendix D. Managed Components Summary" whether the managed component supports function.

CHECK:

• This command is not executed for the PowerBay, the EM card, and the switch blade.

Options:

GroupName

Specify the name of group.

If you want to control all the components under root, specify "root".

/p

Force boot from network after reset.

/exs

When you specify "/exs" option and the component name after it, the command is not executed on the specified component. You can specify plural component names.

/exg

When you specify "/exg" option and the group name after it, the command is not executed on the component under the specified group. You can specify plural group names.

Output:

If error has occurred, the name and the error message about each error-occurred managed component is displayed.

```
Component1
  : Connection to the server could not be made. (Timeout)
Component2
  : Connection to the server could not be made. (Authentication error)
```

2.1.11 groupPowerCycle

Syntax:

dscli groupPowerCycle GroupName [/p] [/exs ComponentName1 ComponentName2 ... ComponentNameN] [/exg GroupName1 GroupName2 ... GroupNameN]

Description:

Forcibly turns off all managed components in a specified group and then turns them on. The managed components in the sub-group are also controlled.

IMPORTANT:

- Since remote power control using NEC ESMPRO Manager is provided by hardware regardless of the condition of operating system on the managed component, the system may be damaged. Be careful when you perform remote power control. Reconfirm the status of the managed component before power controls.
- In case that the managed component does not support a force network-boot function which boots the component from network regardless of boot order, a force network-boot function cannot be executed. See "NEC ESMPRO Manager Ver.7 Setup Guide Appendix D. Managed Components Summary" whether the managed component supports function.

CHECK:

• This command is not executed for the PowerBay, the EM card, and the switch blade.

Options:

GroupName

Specify the name of group.

If you want to control all the components under root, specify "root".

/p

Force boot from network after the power is turned on.

/exs

When you specify "/exs" option and the component name after it, the command is not executed on the specified component. You can specify plural component names.

/exg

When you specify "/exg" option and the group name after it, the command is not executed on the component under the specified group. You can specify plural group names.

Output:

If error has occurred, the name and the error message about each error-occurred managed component is displayed.

```
Component1
  : Connection to the server could not be made. (Timeout)
Component2
  : Connection to the server could not be made. (Authentication error)
```

2.1.12 groupShutdownOs

Svntax:

dscli groupShutdownOs GroupName [/force] [/exs ComponentName1 ComponentName2 ... ComponentNameN] [/exg GroupName1 GroupName2 ... GroupNameN]

Description:

Shut downs operating systems on all managed components in a specified group.

The managed components in the sub-group are also controlled.

This command via LAN instructs the NEC ESMPRO Agent Extension service to shutdown the operating system.

If you specify "/force" option, this command executes the forced shutdown OS function without communication to the NEC ESMPRO Agent Extension or the NEC ESMPRO Agent. You need to specify "/force" option if the connection is via LAN or direct.

..... **CHECK:**

• This command is not executed for the PowerBay, the EM card, and the switch blade.

Options:

GroupName

Specify the name of group.

If you want to control all the components under root, specify "root".

/force

If you specify "/force" option, this command executes the forced shutdown OS function. This shutdown may not work depending on the kind of OS or the OS settings.

/exs

When you specify "/exs" option and the component name after it, the command is not executed on the specified component. You can specify plural component names.

/exg

When you specify "/exg" option and the group name after it, the command is not executed on the component under the specified group. You can specify plural group names.

Output:

If error has occurred, the name and the error message about each error-occurred managed component is displayed.

```
Component1
    : Connection to the component could not be made. (Timeout)
Component2
   : Connection to the component could not be made. (Authentication error)
```

2.1.13 groupSetPowerRestoreDelay

Syntax:

```
dscli groupSetPowerRestoreDelay GroupName DelayTime [/x Policy] [/exs
ComponentName1 ComponentName2 ... ComponentNameN] [/exg GroupName1
GroupName2 ... GroupNameN]
```

Description:

Changes the power option that specifies working of managed components in a specified group when they are turned AC ON.

The managed components in the sub-group are also controlled.

The power option includes AC-LINK policy and the time that delays Power ON (DC ON) when the managed component is set to be turned DC ON in time with AC ON.

IMPORTANT:

• In case that the managed component does not support a setting of power restore delay, this command is invalid. See "NEC ESMPRO Manager Ver.7 Setup Guide Appendix D. Managed Components Summary" whether the managed component supports the function.

CHECK:

- This command is not executed for the PowerBay, the EM card, and the switch blade.
- NEC ESMPRO Manager does not set the specified delay time to the blade server in which
- EXPRESSSCOPE Engine 3 is integrated.

Options:

GroupName

Specify the name of group.

If you want to control all the components under root, specify "root".

DelayTime

AAA-600	Set the delay time from turning on AC to turning on DC.
	* AAA is the minimum value of the delay time of the components.
-1	Set "-1" if you do not change the delay time from turning on AC to turning on DC.
RANDOM	Set "RANDOM" if you change the delay time from turning on AC to turning on DC to random setting.
	* If the component supports random setting, the random setting can be specified.

/x Policy

nk policy.	There are 3 types of the policy.
OFF	The managed component remains OFF when AC power is restored.
STATE	If the managed component is OFF when AC power is lost, the managed component
	remains OFF when AC power is restored.
	If the managed component is ON, when AC power is lost, the managed component
	turns ON after the delay time when AC power is restored.
R_ON	The managed component turns ON after the delay time when AC power is restored.
	nk policy. OFF STATE R_ON

/exs

When you specify "/exs" option and the component name after it, the command is not executed on the specified component. You can specify plural component names.

/exg

When you specify "/exg" option and the group name after it, the command is not executed on the component under the specified group. You can specify plural group names.

Output:

If error has occurred, the name and the error message about each error-occurred managed component is displayed.

```
The following shows an example.
```

```
Component1
  : Connection to the component could not be made. (Timeout)
Component2
  : Connection to the component could not be made. (Authentication error)
```

2.1.14 groupGetRemoteKvmLicense

Syntax:

dscli groupGetRemoteKvmLicense GroupName

Description:

Displays the state of "Remote KVM and Media License" for each managed components in a specified group. The managed components in the sub-group are also displayed.

Options:

GroupName

Specify the name of group.

If you want to control all the components under root, specify "root".

Output:

The following are states of "Remote KVM and Media License".

Installed	"Remote KVM and Media License" has been installed.
Not Installed	"Remote KVM and Media License" has not been installed.
Unsupported	"Remote KVM and Media License" is not supported for the component.
-	The state of "Remote KVM and Media License" is unknown.

```
Component1
  : Installed
Component2
  : Installed
Component3
  : Not Installed
Component4
  : Unsupported
Component5
  : -
  :
  :
```

2.2 Component Management Commands

2.2.1 getServerList

Syntax:

```
dscli getServerList [/d]
```

Description:

Displays the name list of all managed components registered on NEC ESMPRO Manager.

Options:

/d

If you specify "/d" option, the managed components list will indicate component name, GUID and MAC address of LAN port that BMC uses of each component. Added information below is also indicated.

EXPRESSSCOPE Engine seriesBMC is EXPRESSSCOPE Engine series.ARMC :BMC is Advanced Remote Management Card.SWB :indicates that the managed component is a kind of switch blade.

Output:

Displays the name list of all managed components registered on NEC ESMPRO Manager. The following shows an example.

If "/d" option is not specified:

```
Component1
Component2
Component3
:
```

If "/d" option is specified:

```
Component1

GUID 02010202:0000:0000:000000000000

MAC1 00:30:13:f1:00:5a

MAC2 00:30:13:f1:00:5b

EXPRESSSCOPE Engine

Component2

GUID 00301316:cdfe:0180:0010:846e8062d906

MAC1 00:30:13:16:cd:fe

SWB

Component3

GUID 00010203:0405:0607:0809:0a0b0c0d0e0f

MAC1 00:00:4c:9f:13:cb

ARMC

:

:
```

2.2.2 getServerNameByMacAddr

Syntax:

dscli getServerNameByMacAddr MacAddress

Description:

Displays the name of the managed component that has the specified MAC address.

Options:

MacAddress

Specify a MAC address of LAN port that BMC uses on the managed component.

The following shows an example.

dscli getServerNameByMacAddr 00:30:13:f1:00:5a

Output:

Displays the name of the managed component. The following shows an example.
Component1

2.2.3 getServerNameByGuid

Syntax:

dscli getServerNameByGuid GUID

Description:

Displays the name of the managed component that has the specified GUID.

Options:

GŪID

Specify a GUID.

The following shows an example.

dscli getServerNameByGuid 00301316:cdfe:0180:0010:846e8062d906

Output:

Displays the name of the managed component. The following shows an example.

Component2

2.2.4 findNewServer

Syntax:

```
dscli findNewServer StartIpAddr EndIpAddr
```

Description:

Finds BMC on managed components that are not registered on NEC ESMPRO Manager according to IP address range specification.

TIP:

• To register the managed component that is found using findNewServer command or findNewServerNetAddr command, you can use createServer command. See 2.2.6 createServer.

Options:

StartIpAddr

Specify the start address of IP address range.

EndIpAddr

Specify the end address of IP address range.

Output:

Displays the list of the found managed components. The following shows an example.

```
Status: SUCCESS
No.1
1st IP Address : 192.168.14.18
2nd IP Address : 0.0.0.0
Current IP Address : 192.168.14.18
IPMI Version : 1.5
GUID : 84ee20b0:84a1:d511:0080:a0ff94470300
No.2
1st IP Address : 192.168.14.19
2nd IP Address : 0.0.0.0
Current IP Address : 192.168.14.19
IPMI Version : 1.5
GUID : 00004c79:45c0:0180:0010:f57f80d8cef8
:
:
```

2.2.5 findNewServerNetAddr

Syntax:

dscli findNewServerNetAddr NetAddr NetMask

Description:

Finds BMC on managed components that are not registered on NEC ESMPRO Manager according to Network address specification.

TIP:

• To register the managed component that is found using findNewComponent command or findNewServerNetAddr command, you can use createServer command. See 2.2.6 createServer.

Options:

NetAddr Specify network address. NetMask

Specify network mask.

Output:

Displays the list of the found managed components same as the output by "findNewServer" command. See 2.2.4 findNewServer.

2.2.6 createServer

Syntax:

dscli createServer ComponentName GroupName AuthKey [IpAddr1] [IpAddr2]

Description:

Newly registers a managed component on the NEC ESMPRO Manager.

Options:

ComponentName

Specify the name of the managed component. You can input up to 63 characters.

GroupName

Specify the name of group that the managed component belongs to.

AuthKey

Specify the authentication key that is configured on BMC. You can input up to 16 characters. *IpAddr1*

Specify the IP address of the managed component's BMC. This option is omissible if you control the managed component via modem or with direct connection.

IpAddr2

Specify the extra IP address of the managed component's BMC. This option is omissible.

TIPS:

- The name of component that is already registered cannot be specified to *ComponentName*.
- The IP address that is already registered cannot be specified to *IpAddr1* and *IpAddr2*.
- Set other properties using 2.2.9 setServerProperty command.

2.2.7 deleteServer

Syntax:

dscli deleteServer Component [/force]

Description:

Deletes the specified managed component that is registered on the NEC ESMPRO Manager.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

/force

When you delete the managed component that has been set schedule running, the schedule is deleted from NEC ESMPRO Agent Extension. But if the schedule deletion is failed (such as NEC ESMPRO Agent Extension is uninstalled), the component cannot be deleted. In this case you can specify "/force" option to delete component forcibly.

2.2.8 checkConnection

Syntax:

dscli checkConnection Component [/force]

Description:

Confirms connection with BMC on a managed component. This command also collects information for remote control of the managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

/force

Execute the command with "/force" option if the managed component is replaced.

TIP:

• If NEC ESMPRO Manager Ver.5 manage NEC ESMPRO Manager Ver.4, and the "/force" option is specified, NEC ESMPRO Manager Ver.5 may connect with different component in communication with NEC ESMPRO Manager Ver.4 and BMC communication.

2.2.9 setServerProperty

Syntax:

dscli setServerProperty Component PropertyName Value

Description:

Sets the property of a managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

PropertyName

Specify the name of the property. The following is property list:

Value

Specify new value to be set. See the list below.

PropertyName	Contents	Value	Default
	Determine whether to	0: Disabled	1
	enable/disable the get console log	1: Enabled	
CONSOLE_LOG_ENABLE	function to save the Remote		
	Console screen data in text		
	format.		
CONSOLE LOG SIZE	Specify the maximum size (in KB)	4 - 1000	64
	of the console log.		
CONSOLE LOG KEEP CONN	Determine whether to get console	0: Disabled	0
ECTION	log even while remote console is	1: Enabled	
	not open on web browser.		
	Determine whether to	0: Disabled	1
	enable/disable the fault message	1: Enabled	
CONSOLE_LOG_FAULT_MESS	monitoring function that set fault		
AGE_MONITORING	condition when a fault message		
	string is found on head of each		
	console log line.		(5.5
CONSOLE_LOG_FAULI_MESS	Specify the character string for the	Up to 20	
AGE_IDENTIFIER	fault message monitoring function.	characters	<i>.</i>
SERVER_NAME *1	Specify the name of the managed	Up to 63	(None)
	component.	characters.	
	Specify the authentication key to	Up to 16	(None)
SERVER_AUTHKEY "1	managed component.	characters	
	Specify the connection type	0: LAN	0
	between the NEC ESMPRO	1: Direct	
SERVER_CURRENI_PORI_I	Manager component and the	2: Modem	
YPE	managed component. Only LAN		
	can be specified for the EM card.		
	Specify BMC IP address to	IP address	0.0.0.0
SERVER_IP_1 11	communicate via LAN.	format	
	Specify extra BMC IP address to	IP address	0.0.0.0
SERVER_IP_2	communicate via LAN.	format	
	Specify current BMC IP address	IP address	0.0.0.0
SERVER_CURRENT_IP	to communicate via LAN.	format	

PropertyName	Contents	Value	Default
SERVER SUBNETMASK 1 *1	Specify subnet mask of the BMC	IP address	255.255
BERVER_BOBINETWAOR_T	IP address.	format	.255.0
	Specify subnet mask of the extra	IP address	255.255
SERVER_SUBINE IMASK_2	BMC IP address.	format	.255.0
	Specify the phone number to	Up to 19	(Blank)
SERVER_PHONE_NUMBER	communicate via modem. characters		
	Specify the alias of the managed	Up to 255 bytes	(Same
	component.		as
SERVER_ALIAS *1			compon
			ent
			name)

*1 The property can be also set for an EM card.

TIPS:

- The name of component that is already registered cannot be specified to SERVER_NAME.
- The IP address that is already registered cannot be specified to SERVER_IP_1 and SERVER_IP_2.
- You can use moveServer command to change group that the managed component belongs to. See 2.2.10.

2.2.10 moveServer

Syntax:

dscli moveServer Component GroupName

Description:

Changes the group that a managed component belongs to.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

GroupName

Specify the name of new group.

If you want to move the component under root, specify "root".

2.2.11 getServerGroup

Syntax:

dscli getServerGroup Component

Description:

Display the name of group that a managed component belongs to.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Display the name of group that the managed component belongs to. If it belongs to root, displays "root".

2.2.12 setCurrentPort

Syntax:

dscli setCurrentPort Component Connection

Description:

Changes the connection type between the NEC ESMPRO Manager component and a managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Connection

Specify the connection type between the NEC ESMPRO Manager component and the managed component.

LAN	Connects via LAN
SERIAL	Connects directly to serial port
MODEM	Connects via modem

2.2.13 getServerProperty

Syntax:

dscli getServerProperty Component PropertyName

Description:

Displays the specified property of a managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

PropertyName

Specify the name of component property. For the list of component properties, see the 2.2.9 setServerProperty command.

Output:

Displays the specified property of a managed component.

2.2.14 getServerInfo

Syntax:

dscli getServerInfo Component

Description:

Displays the managed component information that includes main component properties.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays the managed component information. The following information is shown:

Item Name	Contents
Component Name	Name of the managed component
Alias	Alias of the managed component
Group	Name of the group that the managed component belongs to.
Connection Type	Connection type between the managed component and the NEC ESMPRO
	Manager component.
BMC Control	Display BMC management status
	Enable : management is valid
	Disable : management is invalid
	Not Registered : not registered for management
	Not Support : out of management (BMC is not integrated)
Check Connection	Display "Completed" if the Check connection has been executed.
BMC Current IP Address	Current BMC IP address to connect to the managed component via LAN.
Failover	Determine whether to enable/disable the Fail over function that continues
	communication by changing to the other IP address if communication with the
	current BMC IP address encounters an error.
BMC LAN1 IP Address	BMC IP address to connect to the managed component via LAN.
BMC LAN1 Subnet Mask	Subnet mask of the BMC IP address

BMC LAN2 IP Address	Extra BMC IP address to connect to the managed component via LAN.
BMC LAN2 Subnet Mask	Subnet mask of the extra BMC IP address
Phone Number	Phone number of the managed component
Product Name	Product name of the managed component
Serial Number	Serial number of the managed component
GUID	ID for identifying the managed component
IPMI Version	IPMI version that the managed component supports
Remote KVM and	State of "Remote KVM and Media License" of the managed component. If this
Media License	managed component does not contain EXPRESSSCOPE Engine series, this
	item is not shown. See 2.1.14"groupGetRemoteKvmLicense" for details.
Chassis Name	Name of chassis in which the managed component is installed. This item is
	shown If the managed component is CPU blade or switch blade.
Slot Number	Number of the slot in which the managed component is installed. This item is
	shown If the managed component is CPU blade or switch blade.
Blade Width	Blade width with the occupied slot count. This item is shown If the managed
	component is CPU blade or switch blade.
Blade Height	Blade Height with the occupied slot count. This item is shown If the managed
	component is CPU blade or switch blade.
Blade Name	Blade name. This item is shown if the managed component has the name.

2.2.15 getDeviceId

Syntax:

dscli getDeviceId Component

Description:

Obtains management controller information of the managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays management controller information. The following shows an example.

```
Device ID : 20H
Device Rev. : 1
Fw Rev. : 00.08
Manufacturer ID : 119
Product ID : 2c3H
```

2.2.16 getGuid

Syntax: dscli getGuid Component

Description:

Obtains GUID of a managed component. GUID is ID for identifying a managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays GUID.

2.2.17 getProductName

Syntax:

dscli getProductName Component

Description:

Obtains the product name and serial number of a managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays the following information.

ProductName product name of the managed component. SerialNumber serial number of the managed component.

2.2.18 getSoftwareInfo

Syntax:

dscli getSoftwareInfo Component

Description:

Obtains version information about NEC ESMPRO Agent Extension, operating system and BIOS on the managed component.

This command can be used via LAN when NEC ESMPRO Agent Extension service is running on the managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays version information. The following shows an example.

Agent Extension Version	:	2.03.04
BIOS Version	:	6.0.0106
OS Version	:	Windows 2003 Server

2.2.19 setShutdownPolicy

Syntax:

dscli setShutdownPolicy Component KeyName Value

Description:

Changes shutdown policy of NEC ESMPRO Agent Extension on a managed component. This command can be used via LAN when NEC ESMPRO Agent Extension service is running on the managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

KeyName

Specify a key name to be set. See the list below.

Value

	Specify	v a new	value to b	e set. See	the list below.
--	---------	---------	------------	------------	-----------------

KeyName	Contents	Value
SCH_ACLINK_STAYON_ENABLE	Determine whether to	0: Disabled
	enable/disable the function that	1: Enabled
	changes AC-LINK policy	
	to "Always Power On" when "OS	
	shutdown" is executed through	
	"scheduled running"	
SCH_AC_LINK	Specify AC-LINK Policy.	-
	(This setting works like as	
	setPowerRestoreDelay	
	command.)	
	* Display only. Cannot be set.	
SCH_DC_OFF_ENABLE	Determine whether to	0: Disabled
	enable/disable the function that	1: Enabled
	turns the managed component	
	off forcibly after shutdown OS.	
	If the managed component is still	
	DC-ON state after OS shutdown,	
	set enable to turn it off when	
	NEC ESMPRO Agent Extension	
	shutdowns its OS.	
SCH_DC_OFF_DELAY	Specify delay time in minutes to	5-60
	turn the managed component off	
	after shutdown OS.	
	This setting is effective only when	
	SCH_DC_OFF_ENABLE is	
	enabled.	
SCH_SHUTDOWN_ENABLE	Determine whether to	0: Disabled
	enable/disable the function which	1: Enabled
	shutdowns OS when the	
	managed component is turned on	
	during the down period specified	
	through "scheduled running".	

KeyName	Contents	Value
SCH_SHUTDOWN_WAIT	Specify delay time in seconds to	-
	shutdown the managed	
	component after shutdown OS	
	command is issued.	
	* Display only. Cannot be set.	

2.2.20 getShutdownPolicy

Syntax:

dscli getShutdownPolicy Component

Description:

Obtains shutdown policy of NEC ESMPRO Agent Extension on a managed component. This command can be used via LAN when NEC ESMPRO Agent Extension service is running on the managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays shutdown policy. For details, see 2.2.19.

SCH_ACLINK_STAYON_ENABLE=0	
SCH_AC_LINK=1	
SCH_DC_OFF_ENABLE=1	
SCH_DC_OFF_DELAY=10	
SCH_SHUTDOWN_ENABLE=1	
SCH_SHUTDOWN_WAIT=60	
2.2.21 setPowerRestoreDelay

Syntax:

dscli setPowerRestoreDelay Component DelayTime [/x Policy]

Description:

Changes the power option that specifies working of a managed component when it is turned AC ON. The power option includes AC-LINK policy and the time that delays Power ON (DC ON) when the managed component is set to be turned DC ON in time with AC ON.

IMPORTANT:

• In case that the managed component does not support a setting of power restore delay, This command is invalid. See "NEC ESMPRO Manager Ver.7 Setup Guide Appendix D. Managed Components Summary" whether the managed component supports the function.

CHECK:

• NEC ESMPRO Manager does not set the specified delay time to the blade server in which EXPRESSSCOPE Engine 3 is integrated.

EAT RESSSCOT E Eligine 5 is integrated.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

DelayTime

	AAA – BBB -1 RANDOM	Set the delay time from turning on AC to turning on DC. * AAA is the minimum value of the delay time of the components. * If the component is EXPRESSSCOPE Engine 3, BBB is 600. * If the component is not EXPRESSSCOPE Engine 3, BBB is 255. Set "-1" if you do not change the delay time from turning on AC to turning on DC. Set "RANDOM" if you change the delay time from turning on AC to turning on DC to random setting.
		* If the component supports random setting, the random setting can be specified.
/x 1	Policy	
	Set AC-Link policy	There are 3 types of the policy.
	STAY_OFF	The managed component remains OFF when AC power is restored.
	LAST_STATE	If the managed component is OFF when AC power is lost, the managed component remains OFF when AC power is restored.
		If the managed component is turned AC OFF during it is in DC ON, the managed component is turned DC ON after the delay time when it is turned AC ON.
	POWER_ON	The managed component is turned DC ON after the delay time when it is turned AC ON.

2.2.22 getPowerRestoreDelay

Syntax:

dscli getPowerRestoreDelay Component

Description:

Obtains power option that specifies working of a managed component when it is turned AC ON. For details, see 2.2.21 setPowerRestoreDelay.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Display power option information. The following shows an example.

Policy	AST_STATE	
Delay Time	ANDOM	
Delay Time Range	5 - 600 sec	

2.2.23 setBmcInfo

Syntax:

dscli setBmcInfo Component KeyName Value [/x ModuleNo]

Description:

Changes BMC configuration information on the managed component. The parameter supported according to the kind of BMC is different.

TIPS:

- Use setAuthKey command to change authentication key or password of PPP server. See 2.2.25 setAuthKey.
- Use setSensorLevel command to change separate sensor level. See 2.2.26 setSensorLevel.
- CFG_NETWORK_SHARED_BMC_LAN,CFG_NETWORK_BMC_MAC, CFG_NETWORK_GUID cannot be specified for setBmcInfo command. Specify those for

getBmcInfo command. See 2.2.24 getBmcInfo.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

KeyName

Specify the key name of BMC configuration. See the list below.

Value

Specify the new values to be set. See the list below.

/x ModuleNo

Specify the CPU/IO module number (0 or 1) if the managed component is a fault tolerant server. This parameter is valid for the network items.

For network items, this command changes the setting of the CPU/IO module 0 if you omit this parameter for the fault tolerant server.

For the other items, this command changes the setting of both CPU/IO modules regardless of the parameter.

Specify the Master BMC(0) or Standby BMC(1) if the managed component is the server which has EXPRESSSCOPE Engine SP3 (2BMC model). This option is valid for network configurations.

For network property items, this command changes the setting of the Master BMC(0) if you omit this parameter for the server which has EXPRESSSCOPE Engine SP3 (2BMC model).

KeyName	Contents	Value
CFG_COMPUTER_NAME	Common:	Up to 15 characters
	Computer Name	
CFG_COMMUNITY	Common:	Up to 16 characters
	Community Name	
CFG_ALERT_ALL	Common: Alert	0: Disabled
		1: Enabled
CFG_POLICY	Common: Alert Policy	1: One Alert
		Destination
		2: All Alert Destination
CFG_ALERT_ACKNOWLEDGE	Common:Alert Acknowledge	0: Disabled
		1: Enabled
CFG_ALERT_LEVEL	Common: Alert Level	0: no Alert
		1-6: Alert Level 1-6
CFG_LAN_CONTROL_LAN1	Common:	0: Disabled
	Remote Control (LAN1)	1: Enabled
CFG_SERIAL_CONTROL	Common:	0: Disabled
	Remote Control	1: Enabled
	(WAN/Direct)	
CFG_LAN_REDIRECTION	Common:	0: Disabled
	Redirection (LAN)	1: Enabled
CFG_SERIAL_REDIRECTION	Common:	0: Disabled
	Redirection (WAN/Direct)	1: Enabled
CFG_LAN_CONTROL_LAN2	Common:	0: Disabled
	Remote Control (LAN2)	1: Enabled
CFG_LAN_ALERT_POLICY_LAN	Common:	0: LAN1
	LAN1 / LAN2 priority	1: LAN2
CFG_LAN_ALERT_POLICY_DESTINATION	Common:	0: LAN Channel
	LAN / Alert Receiver priority	1: Alert Receiver
CFG_DHCP	LAN1:	0: Disabled
	Obtain an IP Address	1: Enabled
	automatically(DHCP)	
CFG_LAN_IP_LAN1	LAN1:	IP address format
	IP Address	
CFG_LAN_SUBNET_LAN1	LAN1:	IP address format
	Subnet Mask	
CFG_LAN_GATEWAY_LAN1	LAN1:	IP address format
	Default Gateway	
CFG_LAN_MANAGE1_ALERT_LAN1	LAN1:	0: Disabled
	Alert Receiver/ management	1: Enabled
	PC(1) Alert	

KeyName	Contents	Value
CFG_LAN_MANAGE1_IP_LAN1	LAN1:	IP address format
	Alert Receiver/ management	
	PC(1) IP address	
CFG_LAN_MANAGE2_ALERT_LAN1	LAN1:	0: Disabled
	Alert Receiver/ management	1: Enabled
	PC(2) Alert	
CFG_LAN_MANAGE2_IP_LAN1	LAN1:	IP address format
	Alert Receiver/ management	
	PC(2) IP address	
CFG_LAN_MANAGE3_ALERT_LAN1	LAN1:	0: Disabled
	Alert Receiver/ management	1: Enabled
	PC(3) Alert	
CFG_LAN_MANAGE3_IP_LAN1	LAN1:	IP address format
	Alert Receiver/ management	
		0.7
CFG_LAN_ALERT_RETRT_COUNT_LANT	Alert Retry Count	0-7
CEG LAN ALERT RETRY TIMEOUT LAN1	I AN1: Alert Timeout (in	3 - 30
	seconds)	
CFG DHCP LAN2	LAN2:	0: Disabled
	Obtain an IP Address	1: Enabled
	automatically(DHCP)	
CFG_LAN_IP_LAN2	LAN2:	IP address format
	IP Address	
CFG_LAN_SUBNET_LAN2	LAN2:	IP address format
	Subnet Mask	
CFG_LAN_GATEWAY_LAN2	LAN2:	IP address format
	Default Gateway	
CFG_LAN_MANAGE1_ALERT_LAN2	LAN2:	0: Disabled
	Alert Receiver/ management	1: Enabled
	PC (1) Alert	
CFG_LAN_MANAGET_IP_LANZ	LANZ:	IP address format
	PC (1) IP address	
CEG LAN MANAGE2 ALERT LAN2		0. Disabled
	Alert Receiver/ management	1: Enabled
	PC (2) Alert	
CFG LAN MANAGE2 IP LAN2	LAN2:	IP address format
	Alert Receiver/ management	
	PC (2) IP address	
CFG_LAN_MANAGE3_ALERT_LAN2	LAN2:	0: Disabled
	Alert Receiver/ management	1: Enabled
	PC (3) Alert	
CFG_LAN_MANAGE3_IP_LAN2	LAN2:	IP address format
	Alert Receiver/ management	
	PC (3) IP address	
CFG_LAN_ALERT_RETRY_COUNT_LAN2	LAN2:	0-7
	Alert Retry Count	0.00
GFG_LAN_ALERT_RETRY_TIMEOUT_LAN2	LANZ:	3 – 30
		4. Direct
	vvAIN/DIrect: IVIOde	1. Direct 2: Modem
1		

KeyName	Contents	Value
CFG_SERIAL_BAUDRATE	WAN/Direct: Baud Rate	1: 9600bps
		2: 19.2Kbps
		3: 57.6Kbps
		4: 115.2Kbps
CFG_SERIAL_FLOW_CONTROL	WAN/Direct	1: None
	Flow Control	2: RTS/CTS
		3: XON/XOFF
CFG_SERIAL_DIAL_MODE	WAN/Direct	1: Pulse
	Dial Mode	2: Tone
CFG_SERIAL_INIT	WAN/Direct	Up to 48 characters
	Initial Command	
CFG_SERIAL_HANG_UP	WAN/Direct	Up to 8 characters
	Hang-up Command	
CFG_SERIAL_DTR_HANG_UP	WAN/Direct	0: Disabled
	DTR Hang-up	1: Enabled
CFG_SERIAL_ESCAPE_CODE	WAN/Direct	1character
	Escape Code	
CFG_SERIAL_DIAL_RETRY_COUNT	WAN/Direct	0 – 7
	Dial retry count	
CFG_SERIAL_DIAL_RETRY_INTERVAL	WAN/Direct	60 – 240
	Dial retry interval (in	
	seconds)	
CFG_SERIAL_ALERT_RETRY_COUNT	WAN/Direct	0 – 7
	Alert retry count	
CFG_SERIAL_ALERT_RETRY_INTERVAL	WAN/Direct	3 – 30
	Alert timeout Interval (in	
	seconds)	
CFG_SERIAL_ALERT_PPP1	WAN/Direct	0: Disabled
	Primary PPP component	1: Enabled
	Alert	
CFG_SERIAL_DIAL_NUMBER_PPP1	WAN/Direct	Up to 19 characters
	Primary PPP component	
	Phone Number	
CFG_SERIAL_USER_ID_PPP1	WAN/Direct	Up to 16 characters
	Primary PPP component	
CFG_SERIAL_DOMAIN_PPP1	Primary DDD component	Op to 16 characters
CEG SERIAL ALERT PPP2	WAN/Direct	0: Disabled
	Secondary PPP component	1: Enabled
	Alert	
CEG SERIAL DIAL NUMBER PPP2	WAN/Direct	Lin to 19 characters
	Secondary PPP component	
	Phone Number	
CFG SERIAL USER ID PPP2	WAN/Direct	Up to 16 characters
	Secondary PPP component	
	User ID	
CFG_SERIAL_DOMAIN_PPP2	WAN/Direct	Up to 16 characters
	Secondary PPP component	
	Domain	
CFG_SERIAL_MANAGE1_IP	WAN/Direct	IP address format
_	Alert Receiver (1)	
	IP address	

KeyName	Contents	Value
CFG_SERIAL_MANAGE2_IP	WAN/Direct	IP address format
	Alert Receiver (2)	
	IP address	
CFG_SERIAL_MANAGE3_IP	WAN/Direct	IP address format
	Alert Receiver (3)	
	IP address	
CFG_PAGER_MANAGE1_ALERT	Pager:	0: Disabled
	Alert Receiver (1) Alert	1: Enabled
CFG_PAGER_MANAGE1_DIAL_NUMBER	Pager:	Up to 19 characters
	Alert Receiver (1) Phone	
	Number	
CFG_PAGER_MANAGE2_ALERT	Pager:	0: Disabled
	Alert Receiver (2) Alert	1: Enabled
CFG_PAGER_MANAGE2_DIAL_NUMBER	Pager:	Up to 19 characters
	Alert Receiver (2) Phone	
	Number	
CFG_PAGER_MESSAGE	Pager:	Up to 29 characters
	Pager message	
GFG_PAGER_TIMEOUT	Pager:	0-30
	Time (2 accords unit)	
CEC NETWORK SHARED BMC LAN	Notwork	0:Managament I AN
CFG_NETWORK_SHARED_BIVIC_EAN	Property:	1.Shared System I AN
	Management LAN	1. Shareu System LAN
	Management I AN Port	
CEG NETWORK SHARED BMC LAN DUP	Network	0 [.] Disabled
	Property:	1: Enabled
	Shared BMC LAN	
	Duplication	
CFG_NETWORK_VLAN	Network	0: Disabled
	Property:	1: Enabled
	VLAN	
CFG_NETWORK_VLAN_ID	Network	1 - 4094
	Property:	
	VLAN ID	
CFG_NETWORK_VLAN_PRIORITY	Network	0 - 7
	Property:	
	VLAN Priority	
CFG_NETWORK_CONNECTION_TYPE	Network	0: Auto Negotiation
	Property:	1: 100Mbps Full
	Basic Connection Type	Duplex
		2: 100Mbps Hair
		Juniov
		5: 1Ghps Full Dupley
		6: 1Gbps Half Dupley
		7: 10Gbps Full Duplex
		8: 10Gbps Half
		Duplex

KeyName	Contents	Value
CFG_NETWORK_BMC_MAC	Network	MAC address format
	Property:	
	BMC MAC Address	
CFG_NETWORK_DHCP	Network	0: Disabled
	Property:	1: Enabled
	Basic DHCP	
CFG_NETWORK_IP_LAN	Network	IP address format
	Property:	
	Basic IP Address	
CFG_NETWORK_SUBNET_LAN	Network	IP address format
	Property:	
	Basic Subnet Mask	
CFG_NETWORK_GATEWAY_LAN	Network	IP address format
	Property:	
	Basic Default Gateway	
CFG_NETWORK_DYNAMIC_DNS	Network	0: Disabled
	Property:	1: Enabled
	Basic Dynamic DNS	
CFG_NETWORK_DNS_SERVER	Network	IP address format
	Property:	
	Basic DNS Server	
CFG_NETWORK_HOST_NAME	Network	Up to total of 254
	Property:	characters of Host
	Basic Host Name	Name and Domain
	Notwork	Name
CFG_NETWORK_DOMAIN_NAME	Network Broparty:	Op to total of 254
	Property.	Nome and Domain
	Basic Domain Name	Name and Domain
	Network	Name
	Property:	
	Basic System GLIID	
CEG NETWORK IPV6	IPv6	0 [.] Disabled
		1: Enabled
CEG NETWORK IPV6 ASSIGNMENT MO	IPv6 Address Assignment	0:Static
	Mode	1:Dvnamic
CFG NETWORK IPV6 LINK LOCAL ADD	IPv6 Link Local Address	
RESS		
CFG_NETWORK_IPV6_GLOBAL_ADDRESS	IPv6 Global Address	
CFG NETWORK IPV6 STATIC ADDRESS	IPv6 Static Address	
CFG_NETWORK_IPV6_PREFIX_LENGTH	IPv6 Prefix Length	0 - 64
CFG NETWORK IPV6 GATEWAY ADDRE	IPv6 Gateway Address	
SS		
CFG_NETWORK_IPV6_DNS_SERVER	IPv6 DNS Server Address	
CFG NETWORK ACCESS LIMITATION TY	Network	0: Allow All
PE	Property:	1: Allow Address
	Access Limitation Access	2: Deny Address
	Limitation Type	

KeyName	Contents	Value
CFG_NETWORK_ACCESS_ADDRESS	Network	IP address format
	Property:	Please delimit Internet
	Access Limitation IP	Protocol address by
	Address	using comma
		The wildcard (*) can
		be used in IP
		address.
CFG_NETWORK_HTTP	Network	0: Disabled
	Service:	1: Enabled
	Web Server	
	HTTP	
CFG_NETWORK_HTTP_PORT	Network	1 - 65535
	Service:	
	Web Server	
	HTTP Port	
CFG_NETWORK_HTTPS	Network	0: Disabled
	Service:	1: Enabled
	Web Server	
	HIIPS	4 05505
CFG_NETWORK_HTTPS_PORT	Network	1 - 65535
	Service:	
	HTTPS Poli	0. Dischlad
CFG_NETWORK_SSH	Network	0: Disabled
	Service.	1. Enableu
CEC NETWORK SSH PORT	Network	1 - 65535
	Service:	1 - 00000
	SSH Interface SSH Port	
CEG MAIL ALERT	Alert	0: Disabled
	Mail Alert:	1: Enabled
	Alert	
CFG_MAIL_ALERT_TIMEOUT	Alert	30 - 600
	Mail Alert:	
	Response time of SMTP	
	server	
CFG_MAIL_ALERT_SERVER	Alert	Up to 255 characters
	Mail Alert:	
	SMTP Server	
	SMTP Server	
CFG_MAIL_ALERT_PORT	Alert	1 - 65535
	Mail Alert:	
	SMTP Server	
	SMTP Port	
CFG_MAIL_ALERT_CRAMMD5		0: Disabled
		1: Enabled
	SMTP Server	
		0: Disabled
	Mail Alert	1. Enabled
	SMTP Server	
	SMTP Authentication	
	LOGIN	
	-	

KeyName	Contents	Value
CFG_MAIL_ALERT_PLAIN	Alert	0: Disabled
	Mail Alert:	1: Enabled
	SMTP Server	
	SMTP Authentication	
	PLAIN	
CFG_MAIL_ALERT_USER	Alert	Up to 64characters
	Mail Alert:	
	SMTP Server	
	User Name	
CFG_MAIL_ALERT_TO1	Alert	Up to 255 characters
	Mail Alert:	Please specify 0
	Mail To1	when Mail Alert is
	Mail To1 Address	disabled.
CFG_MAIL_ALERT_TO2	Alert	Up to 255 characters
	Mail Alert:	Please specify 0
	Mail To2	when Mail Alert is
	Mail To2 Address	disabled.
CFG_MAIL_ALERT_TO3	Alert	Up to 255 characters
	Mail Alert:	Please specify 0
	Mail To3	when Mail Alert is
	Mail To3 Address	disabled.
CFG_MAIL_ALERT_FROM	Alert	Up to 255 characters
	Mail Alert:	
	Mail From	
CFG_MAIL_ALERT_REPLY	Alert	Up to 255 characters
	Mail Alert:	
	Mail Reply-To	
CFG_MAIL_ALERT_SUBJECT	Alert	Up to 63characters
	Mail Alert:	
	Mail Subject	_
CFG_MAIL_ALERT_LEVEL	Alert	0: Error
	Mail Alert:	1: Error, Warning
	Alert Level	2: Error, Warning,
		Information
		3: Separate setting
CFG_SNMP_ALERT		0: Disabled
	SINIP Alert:	1: Enabled
CEC SNMP COMPLITED NAME	Alert	Lin to 16aborostoro
CFG_SINVIF_COWFUTER_NAME	SNMD Alort	Op to rocharacters
	Sinier Alert.	
		Lin to 16charactore
	SNMP Alert:	Op to Tocharacters
	Community Name	
CEG SNMP ALERT ACKNOWLEDGE	Alert	0. Disabled
	SNMP Alert	1: Enabled
	Alert Acknowledge	
CEG SNMP ALERT POLICY	Alert	1: One Alert
	SNMP Alert	Receiver
	Alert Process	2: All Alert Receivers
CEG SNMP ALERT RETRY COUNT	Alert	0 - 7
	SNMP Alert:	
	Alert Retry Count	
		l

KeyName	Contents	Value
CFG_SNMP_ALERT_TIMEOUT	Alert	3 - 30
	SNMP Alert:	
	Alert Timeout	
CFG SNMP MANAGE1 ALERT	Alert	0: Disabled
	SNMP Alert	1. Enabled
	Alert Receiver Primary Alert	
CEC SNMP MANAGE1 IP	Alert	IP address format
	SNMD Alort:	II address ionnat
	Alert Dessiver Drimery ID	
	Alent Receiver Primary IP	
	Address	
CFG_SNMP_MANAGE2_ALERT	Alert	0: Disabled
	SNMP Alert:	1: Enabled
	Alert Receiver Secondary	
	Alert	
CFG_SNMP_MANAGE2_IP	Alert	IP address format
	SNMP Alert:	
	Alert Receiver Secondary IP	
	Address	
CFG_SNMP_MANAGE3_ALERT	Alert	0: Disabled
	SNMP Alert:	1: Enabled
	Alert Receiver Tertiary Alert	
CFG SNMP MANAGE3 IP	Alert	IP address format
	SNMP Alert	
	Alert Receiver Tertiary IP	
	Address	
CEG SNMP ALERT LEVEL		0. Error
	SNMP Alert:	1: Error Warning
	Alert Level	2: Error Warning
		Linformation
		2: Soporate patting
	Others	
CFG_MISCELLANEOUS_SEL	Other:	U: Stop logging SEL
	SEL	1: Clear all SEL
	Behavior when SEL	2: Overwrite oldest
	repository is full	SEL
CFG_MISCELLANEOUS_PEF	Other:	0: Disabled
	Platform Event Filter	1: Enabled
	Platform Event Filter	

2.2.24 getBmcInfo

Syntax:

dscli getBmcInfo Component [/x ModuleNo]

Description:

Obtains BMC configuration information of a specified managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

/x ModuleNo

Specify the CPU/IO module number (0 or 1) if the managed component is a fault tolerant server. This parameter is valid for the network items.

For the network items, this command obtains the setting of the CPU/IO module 0 if you omit this parameter for the fault tolerant server.

For the other items, this command obtains the setting of the current primary CPU/IO module regardless of the parameter.

Specify the Master BMC(0) or Standby BMC(1) if the managed component is the server which has EXPRESSSCOPE Engine SP3 (2BMC model). This option is valid for network configurations.

For the network property items, this command obtains the setting of the Master BMC(0) if you omit this parameter for the server which has EXPRESSSCOPE Engine SP3 (2BMC model).

Output:

Displays BMC configuration information. See 2.2.23 setBmcInfo for details. The following shows an example.

```
CFG COMPUTER NAME=Component1
CFG COMMUNITY=public
CFG ALERT ALL=1
CFG POLICY=1
CFG ALERT ACKNOWLEDGE=1
CFG ALERT LEVEL=4
CFG LAN REDIRECTION=1
CFG LAN CONTROL LAN1=1
CFG SERIAL REDIRECTION=1
CFG SERIAL CONTROL=1
CFG LAN IP LAN1=192.168.14.14
CFG LAN SUBNET LAN1=255.255.255.0
CFG LAN GATEWAY LAN1=192.168.14.1
CFG LAN MANAGE1 ALERT LAN1=0
CFG_LAN_MANAGE1_IP_LAN1=0.0.0.0
CFG LAN MANAGE2 ALERT LAN1=0
CFG LAN MANAGE2 IP LAN1=0.0.0.0
CFG LAN MANAGE3 ALERT LAN1=0
CFG LAN MANAGE3 IP LAN1=0.0.0.0
CFG LAN ALERT RETRY COUNT LAN1=3
CFG LAN ALERT RETRY TIMEOUT LAN1=6
:
```

2.2.25 setAuthKey

Svntax:

dscli setAuthKey Component OldPassword NewPassword SelectAuthKey

Description:

Changes the authentication key, PPP server's password or SMTP server's password of a BMC configuration. The parameter supported according to the kind of BMC is different.

..... **CHECK:** Only Password of SMTP server can be changed for the managed component in which EXPRESSSCOPE Engine 3 is integrated. TIP:

After you succeed to change authentication key, you should change the authentication key • registered on NEC ESMPRO Manager using setServerProperty command. See 2.2.9 setServerProperty.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

OldPassword

Specify current password.

NewPassword

Specify new authentication key or PPP sever's password up to 16 characters. Specify new SMTP server's password up to 20 characters.

SelectAuthKey

Specify a	a type of password.
0	Authentication key

~

1	Password of primary PPP server
2	Password of secondary PPP server
•	

Password of SMTP server 3

.

2.2.26 setSensorLevel

Syntax:

```
dscli setSensorLevel Component Type SensorName Level1 Level2 Level3
```

Description:

Changes separate setting at the alert level of BMC configuration information on the managed component. This command can be used when alert Level is only a separate setting.

_____ TIP:

- Use setBmcInfo command to change alert level to the separate setting of component. See 2.2.23setBmcInfo.
- 8 is not use. Use getSensorLevel command. See 2.2.27 getSensorLevel.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Туре

Specify an alert type.	
SNMP:	SNMP alert
MAIL:	MAIL alert

SensorName

Specify the key name of sensor. See the following list.

Level1

Specify the alert level of error.

Level2

Specify the alert level of warning.

Level3

Specify the alert level of information.

0:	Disable to change SNMP alert or MAIL alert of alert level
1:	Enable to change SNMP alert or MAIL alert to1 of alert level
2:	Enable to change MAIL alert to2 of alert level
3:	Enable to change MAIL alert to3 of alert level
4:	Enable to change MAIL alert to1 or MAIL alert to2 of alert level
5:	Enable to change MAIL alert to1 or MAIL alert to3 of alert level
6:	Enable to change MAIL alert to2 or MAIL alert to3 of alert level
7:	Enable to change MAIL alert to1,
	MAIL alert to2 or MAIL alert to3 of alert level
8:	SNMP alert and MAIL alert of unalterable alert level
TIP:	
• 0 is speci	fied for a unalterable alert level.

See the following list.

OK : Enable to change, NG : Disable to change

SensorName	Contents	Level1	Level2	Level3
TEMP_THRESHOLD	Temperature	OK	OK	OK
	(Monitoring			
	Threshold)			
VOLT_THRESHOLD	Voltage (Monitoring	OK	OK	OK
	Threshold)			
FAN_SENSOR	FAN(Speed)	OK	OK	OK
COOL_DEV_THRESHOLD	Cooling Device	OK	OK	OK
	(Monitoring			
	Threshold)			
TEMP_ABNORMAL	Temperature	OK	NG	OK
	(Monitoring Abnormal			
	State)			
POST_MEM_RESIZE	POST Memory	NG	OK	OK
	Resize			
MODULE_BOARD	Module/Board(Missin	OK	NG	OK
	g)			

SensorName	Contents	Level1	Level2	Level3
SMI_TIMEOUT	SMI Timeout	OK	NG	OK
VOL_ABNORMAL	Voltage (Monitoring Abnormal State)	OK	NG	ОК
COOL_DEV_ABNORMAL	Cooling Device (Monitoring Abnormal State)	ОК	ОК	OK
TRANSITION_PW_SAVE	Transition to Power Save	NG	NG	OK
MICROCONTROLL_STS	Microcontroller State	NG	OK	OK
PW_UNIT_REDUN	Power Unit Redundancy	ОК	ОК	OK
MEM_REDUN	Memory Redundancy	NG	NG	OK
PHY_SEC	Physical Security(Chassis Intrusion)	NG	OK *1	ОК
PLATFORM_SEC	Platform Security Violation Attempt	NG	NG	OK
PROCESSOR	Processor	OK	NG	OK
PW_SUPPLY	Power Supply	NG	OK	OK
PW_UNIT_STS	Power Unit State	OK	OK	OK
MEM	Memory	OK	NG	OK
DRIVE_SLOT	Drive Slot(Bay)	OK	OK	OK
POST_ERR	POST	OK	NG	OK
EVT_LOG_DISABLED	Event Logging	NG	OK	OK
SYS_EVT	System Event	NG	NG	OK
CRITICAL_INT	Critical Interrupt	OK	NG	OK
BUTTON_SWITCH	Button/Switch	NG	NG	OK
CHIP_SET	Chip Set	OK	NG	OK
	Cable/Interconnect	NG	NG	OK
SYS_BOOT_RESTART_INIT	System Boot/Restart Initiated	NG	NG	OK
BOOT_ERR	Boot Error	NG	NG	OK
OS_BOOT	OS Boot	NG	NG	OK
OS_STOP_SHUTDOWN	OS Stop/Shutdown	OK	NG	OK
SLOT_CONNECTOR	Slot/Connector	OK	OK	OK
ACPI	System ACPI Power State	NG	NG	OK
WATCHDOG_TIMER	Watchdog Timer	OK	NG	OK
ENTITY_PRESENCE_INFO	Entity Presence Information	NG	NG	OK
VERSION_CHANGE	Version Change	NG	NG	OK
SSD_STATUS	SSD Status	OK	OK	OK
SECURE_BOOT	Secure Boot	NG	NG	OK
FRU_HOT_SWAP	FRU Hot Swap	NG	NG	OK
SYS_SPEC_PW_STATE	System Specific Power State	NG	NG	OK
PW_CAPPING	Power Capping	OK	OK	NG
SENSOR_FAILURE	Sensor Failure	OK	NG	OK
MANAGEMENT_ENGINE	Management Engine	OK	OK *1	OK

*1 Some models of managed servers may not support.

See the following list for a fault tolerant server. OK : Enable to change, NG : Disable to change

SensorName	Contents	Level1	Level2	Level3
TEMP_THRESHOLD	Temperature	NG	OK	OK
	(Monitoring			
	Threshold)			
VOLT_THRESHOLD	Voltage (Monitoring	NG	OK	OK
	Threshold)			
FAN_SENSOR	FAN(Speed)	NG	OK	OK
PROCESSOR	Processor	NG	OK	OK
PW_SUPPLY	Power Supply	NG	OK	OK
PW_UNIT_STS	Power Unit State	NG	NG	OK
MEM	Memory	NG	OK	OK
POST_ERR	POST	NG	OK	OK
EVT_LOG_DISABLED	Event Logging	NG	NG	OK
SYS_EVT	System Event	NG	NG	OK
CRITICAL_INT	Critical Interrupt	OK	NG	OK
BUTTON_SWITCH	Button/Switch	NG	NG	OK
SYS_BOOT_RESTART_INIT	System Boot/Restart	NG	NG	OK
	Initiated			
BOOT_ERR	Boot Error	NG	NG	OK
SLOT_CONNECTOR	Slot/Connector	NG	NG	OK
ACPI	System ACPI Power	NG	NG	OK
	State			
WATCHDOG_TIMER	Watchdog Timer	NG	OK	OK
SENSOR_FAILURE	Sensor Failure	NG	OK	OK
HAEVENT	HA Event	OK	OK	OK

See the following list for the server which has EXPRESSSCOPE Engine SP3 (2BMC model). OK : Enable to change, NG : Disable to change

SensorName	Contents	Level1	Level2	Level3
TEMP_THRESHOLD	Temperature(Monitori ng Threshold)	ОК	ОК	OK
VOLT_THRESHOLD	Voltage(Monitoring Threshold)	ОК	ОК	OK
FAN_SENSOR *1	FAN(Speed)	OK	OK	OK
POST_MEM_RESIZE *1	POST Memory Resize	NG	OK	OK
SMI_TIMEOUT	SMI Timeout	OK	OK *1	OK *1
VOL_ABNORMAL	Voltage (Monitoring Abnormal State)	ОК	ОК	OK
PROCESSOR_ABNORMAL	Processor(Monitoring Abnormal State)	ОК	OK *1	OK
MODULE_BOARD_ABNORMAL	Module/Board(Monitor ing Abnormal State)	ОК	NG	OK
MODULE_BOARD_DISABLED	Module/Board(Monitor ing Disabled State)	NG	NG	OK
SLOT_CONNECTOR_DISABLED *1	Slot/Connector(Monit oring Disabled State)	ОК	ОК	OK

SensorName	Contents	Level1	Level2	Level3
PROCESSOR_DEGRADED	Processor(Monitoring	NG	NG	OK
	Degraded State)			
MODULE_BOARD_DEGRADED	Module/Board(Monitor	NG	NG	OK
	ing Degraded State)			
MICROCONTROLL_STS	Microcontroller State	OK *1	OK *1	OK
SLOT_CONNECTOR_DEGRADED	Slot/Connector(Monit	OK	OK	OK
	oring Degraded State)			
FAN_REDUN	FAN Redundancy	OK	NG	OK
MEM_REDUN *1	Memory Redundancy	OK	OK	OK
PW_UNIT_REDUN	Power Unit	OK	OK *1	OK
	Redundancy			
PLATFORM_SEC	Platform Security	NG	NG	OK
	Violation Attempt	01/	01/ *4	01/
PROCESSOR	Processor	OK		OK
	Power Supply	OK	OK	OK
PW_UNIT_STS *1	Power Unit State	OK	OK	
		OK		
DRIVE_SLUI	Drive Slot(Bay)		NG	OK
	FUST Event Logging	NG	NG	
	System Event		NG	
	Critical Interrupt	OK		
	Button/Switch	NG	NG	
CHIP SET	Chin Set	OK	OK *1	OK *1
SYS BOOT RESTART INIT	System Boot/Restart	NG	NG	OK
	Initiated	110	110	ÖR
BOOT ERR	Boot Error	NG	OK *1	OK *1
OS BOOT	OS Boot	NG	OK *1	OK
OS_STOP_SHUTDOWN	OS Stop/Shutdown	NG	NG	OK
SLOT_CONNECTOR	Slot/Connector	OK	OK *1	OK
ACPI	System ACPI Power	NG	NG	OK
	State			
WATCHDOG_TIMER	Watchdog Timer	NG	OK	NG
ENTITY_PRESENCE_INFO *1	Entity Presence	OK	OK	OK
	Information			
BATTERY	Battery	OK	OK *1	OK
SYS_SPEC_PW_STATE *1	System Specific	OK	OK	OK
	Power State			
PW_CAPPING *1	Power Capping	NG	OK	NG
SENSOR_FAILURE	Sensor Failure	OK	OK *1	OK *1
MANAGEMENT_ENGINE	Management Engine	OK	OK *1	OK
PW_SUPPLY_DISABLED *1	Power	NG	NG	OK
	Supply(Monitoring			
	Disabled State)			
	Secure Boot	NG	NG	OK
PLATFORM_SPECIFIC_EVENT1 *1	Platform-specific	OK	NG	NG

*1 Some models of managed servers may not support.

2.2.27 getSensorLevel

Syntax:

dscli getSensorLevel Component Type

Description:

Obtains separate setting at the alert level of BMC configuration information of a specified managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Туре

Specify an alert type.	
SNMP:	SNMP alert
MAIL:	MAIL alert

Output:

Displays alert level of BMC configuration information. See 2.2.26 setSensorLevel for details.

The following shows an example. TEMP THRESHOLD=111 VOLT THRESHOLD=000 FAN_SENSOR=000 PLATFORM SEC=800 PROCESSOR=000 PW SUPPLY=000 PW UNIT STS=000 MEM=000 DRIVE SLOT=000 EVT LOG DISABLED=800 SYS EVT=080 CRITICAL INT=000 BUTTON SWITCH=880 MODULE BOARD=800 SYS BOOT RESTART INIT=880 BOOT ERR=880 ACPI=880 SMI TIMEOUT=800 POST MEM RESIZE=800 POST ERR=800 SLOT CONNECTOR=080 WATCHDOG TIMER=080 SENSOR FAILTURE=800 :

2.2.28 getAgentExtensionLog

Syntax:

dscli getAgentExtensionLog Component

Description:

Obtains the application logs of the NEC ESMPRO Agent Extension on a managed component. This command can be used via LAN when NEC ESMPRO Agent Extension service is running on the managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays the application logs of the NEC ESMPRO Agent Extension.

2.2.29 testAlert

Syntax:

dscli testAlert Component Target

Description:

Executes an alert test.

You can confirm the result of test using 2.2.30 getTestAlertStatus command. The parameter supported according to the kind of BMC is different.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Target

Specify an alert receiver.

LAN1_1 or 0:	LAN1 alert receiver (1)
LAN1_2 or 1:	LAN1 alert receiver (2)
LAN1_3 or 2:	LAN1 alert receiver (3)
LAN2_1 or 3:	LAN2 alert receiver (1)
LAN2_2 or 4:	LAN2 alert receiver (2)
LAN2_3 or 5:	LAN2 alert receiver (3)
PPP1_1 or 6:	PPP1 alert receiver (1)
PPP1_2 or 7:	PPP1 alert receiver (2)
PPP1_3 or 8:	PPP1 alert receiver (3)
PPP2_1 or 9:	PPP2 alert receiver (1)
PPP2_2 or 10:	PPP2 alert receiver (2)
PPP2_3 or 11:	PPP2 alert receiver (3)
PPP2_3 or 11: Pager1 or 12:	PPP2 alert receiver (3) Pager alert receiver (1)
PPP2_3 or 11: Pager1 or 12: Pager2 or 13:	PPP2 alert receiver (3) Pager alert receiver (1) Pager alert receiver (2)
PPP2_3 or 11: Pager1 or 12: Pager2 or 13: SNMP1 or 14:	PPP2 alert receiver (3) Pager alert receiver (1) Pager alert receiver (2) SNMP alert receiver (1)
PPP2_3 or 11: Pager1 or 12: Pager2 or 13: SNMP1 or 14: SNMP2 or 15:	PPP2 alert receiver (3) Pager alert receiver (1) Pager alert receiver (2) SNMP alert receiver (1) SNMP alert receiver (2)
PPP2_3 or 11: Pager1 or 12: Pager2 or 13: SNMP1 or 14: SNMP2 or 15: SNMP3 or 16:	PPP2 alert receiver (3) Pager alert receiver (1) Pager alert receiver (2) SNMP alert receiver (1) SNMP alert receiver (2) SNMP alert receiver (3)
PPP2_3 or 11: Pager1 or 12: Pager2 or 13: SNMP1 or 14: SNMP2 or 15: SNMP3 or 16: MAIL1 or 17:	PPP2 alert receiver (3) Pager alert receiver (1) Pager alert receiver (2) SNMP alert receiver (1) SNMP alert receiver (2) SNMP alert receiver (3) MAIL alert receiver (1)
PPP2_3 or 11: Pager1 or 12: Pager2 or 13: SNMP1 or 14: SNMP2 or 15: SNMP3 or 16: MAIL1 or 17: MAIL2 or 18:	PPP2 alert receiver (3) Pager alert receiver (1) Pager alert receiver (2) SNMP alert receiver (2) SNMP alert receiver (2) SNMP alert receiver (3) MAIL alert receiver (1) MAIL alert receiver (2)

2.2.30 getTestAlertStatus

Syntax:

dscli getTestAlertStatus Component Target

Description:

Obtains the state of an alert test. The parameter supported according to the kind of BMC is different.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Target

Specify an alert receiver. See 2.2.29 testAlert.

Output:

Displays the state of the alert test. One of the following test states is displayed.

TEST_UNKNOWN:	Unknown status
TEST_TESTING:	Now Alerting
TEST_SUCCESS:	Alert test is succeeded.
TEST_ABORT:	Alert test is failed.
TEST_CALL_FAILED:	Alert test is failed. (Dial up error)
TEST_TIMEOUT:	Alert test is failed. (Timeout)
TEST_ERROR:	Alert test is failed (Other reason)

While an alert is being sent, the alert state is displayed as follows:

TEST TESTING

2.2.31 getServerStatus

Syntax:

dscli getServerStatus Component

Description:

Displays the status of a specified managed component. Confirms the managed component status by component monitoring function.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays the managed component status as following.

ERROR:	Error
WARNING:	Warning
UNKNOWN:	Unknown or connection error
DC-OFF:	DC-OFF
NORMAL:	Normal
NO_MONITORING:	Out of monitoring

2.2.32 getPowerStatus

Syntax:

dscli getPowerStatus Component

Description:

Obtains the power state of a specified managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays the power state of a specified managed component. There are the following power states:

DC-ON Power-ON DC-OFF Power-OFF

2.2.33 getStatusLamp

Syntax:

dscli getStatusLamp Component

Description:

Obtains the state of a specified managed component STATUS lamp. Obtains the state of system FAULT LED for a fault tolerant server.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays the state of a specified managed component STATUS lamp. There are the following states of the STATUS lamp

OFF	Turn off.
GREEN_ON	Turn on green.
GREEN_BLINK	Blink green.
AMBER_ON	Turn on amber.
AMBER_BLINK	Blink amber
RED_ON	Turn on red.
RED_BLINK	Blink red.

2.2.34 getPanelInfo

Syntax:

dscli getPanelInfo Component [/x ModuleNo]

Description:

Obtains the following state as the front panel information of a managed component: power state, the STATUS lamp state, the displays of LCD, the system monitoring state of the watchdog timer, the counter of power-on hours.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

/x ModuleNo

Specify the CPU/IO module number (0 or 1) if the managed component is a fault tolerant server. If you omit this parameter for the fault tolerant server, this command obtains the state of the CPU/IO module 0 for the network items.

Output:

Displays the front panel information. The following shows an example.

Power Status	: SU_GU
STATUS Lamp	: GREEN_ON
LCD0	: Prepare To Boot
LCD1	:
Watchdog Status	: STARTED
Watchdog Use	: SMS_OS
Watchdog Interval	: 10 sec
POH	: 262920 min
:	

2.2.35 powerOn

Syntax:

dscli powerOn Component [/p]

Description:

Turns on a specified managed component.

If the POWER switch needs to be pressed to recover the managed component from the sleep state, it can also be recovered by executing this command.

IMPORTANT:

- In case that the managed component does not support a force network-boot function which boots the component from network regardless of boot order, a force network-boot function cannot be executed. See "NEC ESMPRO Manager Ver.7 Setup Guide Appendix D. Managed Components Summary" whether the managed component supports function.
- In the case of PowerBay, The power control is not performed to the powerbay. It is performed to the maintenance card integrated on the PowerBay.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

/p

Force boot from network after the power is turned on.

2.2.36 powerOff

Syntax:

dscli powerOff Component

Description:

Forcibly turns off a specified managed component.

IMPORTANT:

- Since remote power control using NEC ESMPRO Manager is provided by hardware regardless of the condition of operating system on the managed component, the system may be damaged. Be careful when you perform remote power control. Reconfirm the status of the managed component before power controls.
- In the case of PowerBay, The power control is not performed to the powerbay. It is performed to the maintenance card integrated on the PowerBay.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

2.2.37 reset

Syntax:

```
dscli reset Component [/p]
```

Description:

Forcibly resets a specified managed component.

IMPORTANT:

- Since remote power control using NEC ESMPRO Manager is provided by hardware regardless of the condition of operating system on the managed component, the system may be damaged. Be careful when you perform remote power control. Reconfirm the status of the managed component before power controls.
- In case that the managed component does not support a force network-boot function which boots the component from network regardless of boot order, a force network-boot function cannot be executed. See "NEC ESMPRO Manager Ver.7 Setup Guide Appendix D. Managed Components Summary" whether the managed component supports function.
- In the case of PowerBay, The power control is not performed to the powerbay. It is performed to the maintenance card integrated on the PowerBay.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

/p

Force boot from network after reset.

2.2.38 powerCycle

Syntax:

```
dscli powerCycle Component [/p]
```

Description:

Forcibly turns off a specified managed component and then turns it on.

IMPORTANT:

- Since remote power control using NEC ESMPRO Manager is provided by hardware regardless of the condition of operating system on the managed component, the system may be damaged. Be careful when you perform remote power control. Reconfirm the status of the managed component before power controls.
- In case that the managed component does not support a force network-boot function which boots the component from network regardless of boot order, a force network-boot function cannot be executed. See "NEC ESMPRO Manager Ver.7 Setup Guide Appendix D. Managed Components Summary" whether the managed component supports function.
- In the case of PowerBay, The power control is not performed to the powerbay. It is performed to the maintenance card integrated on the PowerBay.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

/p

Force boot from network after the power is turned on.

2.2.39 shutdownOs

Svntax:

dscli shutdownOs Component [/force]

Description:

Shut downs the operating system on a managed component.

This command via LAN instructs the NEC ESMPRO Agent Extension service to shutdown the operating system. The command via modem or with direct connection instructs the NEC ESMPRO Agent.

If you specify "/force" option, this command executes the forced shutdown OS function without communication to the NEC ESMPRO Agent Extension or the NEC ESMPRO Agent.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

/force

If you specify "/force" option, this command executes the forced shutdown OS function. This shutdown may not work depending on the kind of OS or the OS settings.

2.2.40 dumpSwitch

Syntax:

dscli dumpSwitch Component

Description:

Pushes DUMP switch on a managed component.

_____ **IMPORTANT:**

- Since remote power control using NEC ESMPRO Manager is provided by hardware regardless of the condition of operating system on the managed component, the system may be damaged. Be careful when you perform remote power control. Reconfirm the status of the managed component before power controls.
-

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses or the GUID of the managed component.

2.2.41 clearSel

Syntax:

dscli clearSel Component [/force]

Description:

Clears the System Event Log (SEL) area on a managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

/force

If you specify "/force" option, this command clears the SEL area even while the automatic backup service of NEC ESMPRO Agent is active on the managed component.

2.2.42 identify Chassis

Syntax:

dscli identifyChassis Component Period

Description:

Turns on the Unit ID lamp on a managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Period

Specify lamp-on period in seconds. You can specify 0 - 255.

2.2.43 getlpmilnfo

Syntax:

dscli getIpmiInfo Component FileName [/x ModuleNo]

Description:

Collects IPMI information and saves it as a specified file name.

If there is the type of information that is not read in but NEC ESMPRO Manager holds the previously read-in information, the information is also saved in the file.

TIP:

• You can display the IPMI information file on web browser interface of the NEC ESMPRO Manager. Log in the NEC ESMPRO Manager and click the "Tools" on the header menu.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

FileName

Specify the filename with path name for saving the IPMI information.

/x ModuleNo

Specify the CPU/IO module number (0 or 1) if the managed component is a fault tolerant server. If you omit this parameter for the fault tolerant server, this command obtains the information of the CPU/IO module 0.

2.2.44 getSensorList

Syntax:

dscli getSensorList Component [/x ModuleNo]

Description:

Creates a sensor list from the previously collected SDR of IPMI information through 2.2.43 getIpmiInfo command and displays the list. The SDR record ID indicating each sensor is also displayed.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

/x ModuleNo

Specify the CPU/IO module number (0 or 1) if the managed component is a fault tolerant server. If you omit this parameter for the fault tolerant server, this command obtains the information of the CPU/IO module 0.

Output:

Displays the list of the sensor names. The following shows an example.

```
0001h: Sensor Type=Temperature(Front Panel Temp), Owner=Basbrd Mgmt Ctlr
0002h: Sensor Type=Temperature(Baseboard Temp), Owner=Basbrd Mgmt Ctlr
0003h: Sensor Type=Temperature(Processor 1 Temp), Owner=Basbrd Mgmt Ctlr
0004h: Sensor Type=Temperature(Processor 2 Temp), Owner=Basbrd Mgmt Ctlr
0005h: Sensor Type=Temperature(PwrDstBd Temp), Owner=Basbrd Mgmt Ctlr
```

2.2.45 getSensorStatus

Syntax:

```
dscli getSensorStatus Component RecordId [/x ModuleNo]
```

Description:

Obtains the status of specified sensor on the managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

RecordId

Specify the SDR record ID from the sensor list displayed by 2.2.44 getSensorList command.

/x ModuleNo

Specify the CPU/IO module number (0 or 1) if the managed component is a fault tolerant server. If you omit this parameter for the fault tolerant server, this command obtains the status of the CPU/IO module 0.

Output:

Displays the status of the sensor. The following shows an example.

```
Current Value:

30.00 degrees C

Current Status:

Normal

Upper non-recoverable Threshold:

---

Upper critical Threshold:

46.00 degrees C (Hysteresis:44.00 degrees C)

Upper non-critical Threshold:

43.00 degrees C (Hysteresis:41.00 degrees C)

Lower non-critical Threshold:

3.00 degrees C (Hysteresis:5.00 degrees C)

Lower critical Threshold:

0.00 degrees C (Hysteresis:2.00 degrees C)

Lower non-recoverable Threshold:

---
```

2.2.46 getConsoleLog

Syntax: dscli getConsoleLog Component

Description:

Displays the console log of a specified component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays the console log of a specified component.

2.2.47 setBmclpSync

Syntax:

dscli setBmcIpSync Component Value

Description:

Changes BMC IP Address Synchronization of NEC ESMPRO Agent Extension on a managed component.

BMC IP Address Synchronization means the function that the NEC ESMPRO Agent Extension corrects the IP address in the BMC configuration information periodically to the IP address set on the operating system if the managed component contains the BMC that use standard LAN port.

This command can be used via LAN when NEC ESMPRO Agent Extension service is running on the managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Value

Specify a new value to be set.

,	
0	Disable
1	Enable
TIP	
•	f this command is sent to NEC ESMPRO Agent Extension on the managed component

that contains the BMC that uses an exclusive LAN port (Management LAN Port), the command end successfully, but nothing is set.

2.2.48 getBmclpSync

Syntax:

dscli getBmcIpSync Component

Description:

Obtains BMC IP Address Synchronization of NEC ESMPRO Agent Extension on a managed component. BMC IP Address Synchronization means the function that the NEC ESMPRO Agent Extension corrects the IP address in the BMC configuration information periodically to the IP address set on the operating system if the managed component contains the BMC that use standard LAN port.

This command can be used via LAN when NEC ESMPRO Agent Extension service is running on the managed component.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays BMC IP Address Synchronization. The following shows an example.

Agent Config (BMC IP Sync) : Enable

2.2.49 getBladeSlotId

Syntax:

dscli getBladeSlotId Component

Description:

Execute 2.2.41 getIpmiInfo command previously.

Obtains enclosure ID and slot ID of a managed component if the managed server is a blade. The enclosure ID is for identifying the blade assembly unit where the blade is installed. The slot ID shows the installation position inside the blade assembly unit where the slot is installed.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

Displays enclosure ID and slot ID. The following shows an example.

Enclo	nclosure	ID: 004000000
Slot 3	Lot ID:	2

2.2.50 deleteBmcUser

Syntax:

dscli deleteBmcUser Component UserId

Description:

Deletes the user account that is set in the BMC configuration of components

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

UserId

Specify the number allocated to the BMC user.

2.2.51 getBmcUserList

Syntax:

dscli getBmcUserList Component

Description:

Displays a list of user accounts that is set in the BMC configuration of components

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

The following shows an example.

User : Enable User Name : USERNAME1 Privilege : Administrator No.2 User : Enable User Name : USERNAME2	No.1	
User Name : USERNAME1 Privilege : Administrator No.2 User : Enable User Name : USERNAME2	User	: Enable
Privilege : Administrator No.2 User : Enable User Name : USERNAME2	User Name	: USERNAME1
No.2 User : Enable User Name : USERNAME2	Privilege	: Administrator
User : Enable User Name : USERNAME2	No.2	
User Name : USERNAME2	User	: Enable
••••••	User Name	: USERNAME2
Privilege : Operator	Privilege	: Operator
No.3	No.3	
User : Disable	User	: Disable
User Name : USERNAME3	User Name	: USERNAME3
Privilege : User	Privilege	: User

2.2.52 setBmcUserInfo

Syntax:

dscli setBmcUserInfo Component UserId KeyName Values

Description:

Changes the user account information for the BMC configuration

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

UserId

Specify the number being allocated by user that uses BMC(1 - 12).

KeyBane

Specify the key name of BMC configuration. See the list below.

Value

Specify a new value to be set. See the list below.

KeyName	Value
	0: Disabled
USER	1: Enabled
USER_NAME	Up to 15 characters(*1)
USER_PASSWORD	Up to 19 characters(*2)
	0: User
USER_PRIVILEGE	1: Operator
	2: Administrator

(*1) Must be specified with half-size alphanumeric characters, '-'(minus sign) and '_'(underscore). (*2) Only ASCII character string that excludes ' '(blank)', ''''(quotation marks)' and '=' can be used.

2.2.53 getBmcUserInfo

Syntax:

dscli getBmcUserInfo Component UserId

Description:

Gets the user account information for the BMC configuration

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

UserId

Specify the number being allocated by user that uses BMC(1 - 12).

Output:

The following shows an example.

USER		:	true
USER	NAME	:	USERNAME2
USER	PRIVILEGE	:	Operator

2.2.54 setPowerRestorePolicy

Syntax:

dscli setPowerRestorePolicy Component Policy

Description:

Changes AC-Link policy that specifies working of a managed component when it is turned AC ON.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Policy

Set AC-Link policy. There are 3 types of the policy.

STAY_OFF	The managed component remains OFF when AC power is restored.
LAST_STATE	If the managed component is OFF when AC power is lost, the managed component
	remains OFF when AC power is restored.
	If the managed component is turned AC OFF during it is in DC ON, the managed
	component is turned DC ON after the delay time when it is turned AC ON.
POWER_ON	The managed component is turned DC ON after the delay time when it is turned AC
	ON.

2.2.55 getPowerRestorePolicy

Syntax:

```
dscli getPowerRestorePolicy Component
```

Description:

Obtains AC-Link policy that specifies working of a managed component when it is turned AC ON.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

The following shows an example.

Policy : STAY_OFF

2.2.56 getSystemFtLamp

Syntax:

dscli getSystemFtLamp Component

Description:

Obtains the state of System FT LED if the managed component is a fault tolerant server.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

Output:

There are the following states of the System FT LED.

OFFPower off or simplexGREEN_ONDuplexGREEN_BLINKSplit mode.

2.3 EM Card Management Commands

The following component management commands can be used for an EM card. However, the MAC address cannot be specified for the option "Server".

getServerNameByGuid findNewServer findNewServerNetAddr createServer deleteServer checkConnection setServerProperty getServerProperty getServerInfo getDeviceId getGuid getServerStatus

2.3.1 getEmCardList

Syntax:

```
dscli getEmCardList [/d]
```

Description:

Displays the name list of all EM cards registered on NEC ESMPRO Manager.

Options:

/d

If you specify "/d" option, the EM cards list indicates EM card name and GUID.

Output:

The following shows an example.

If "/d" option is not specified:

	seemen
EM0001	
EM0002	

If "/d" option is specified:

```
EM0001
GUID 01b21dd2:1dd2:11b2:2fa4:003013630cc5
EM0002
GUID 01b21dd2:1dd2:11b2:49bd:003013630cc0
```
2.3.2 getEmActiveState

Syntax:

dscli getEmActiveState EmCard

Description:

Displays state of active/standby of the specified EM card.

Options:

EmCard

Specify the name of EM card.

Output:

There are the following states of EM card Active active Standby standby

2.3.3 identifyEm

Syntax:

dscli identifyEm EmCard [/x SwmSlotNumber]

Description:

Turns on the Unit ID lamp of specified EM card or the switch module that is managed by the EM card for 15 seconds. Only when the EM card is active, this command is available.

Options:

EmCard

Specify the name of the EM card.

/x SwmSlotNumber

Specify the slot number of the switch module, when you want to turn on Unit ID lamp of the switch module that is managed by the EM card.

2.3.4 getEmStatusLamp

Syntax:

dscli getEmStatusLamp EmCard [/x SwmSlotNumber]

Description:

Obtains the state of a specified EM card or the switch module that is managed by the EM card. Only when the EM card is active, this command is available.

Options:

EmCard

Specify the name of the EM card.

/x SwmSlotNumber

Specify the slot number of the switch module, when you want to obtain Status lamp of switch module that is managed by the EM card.

Output:

There are the following states of the STATUS lamp

GREEN_ON	Turn on green.
GREEN_BLINK	Blink green.
AMBER_BLINK	Blink amber.
RED_BLINK	Blink red.

2.4 Chassis Management Commands

2.4.1 getBladeEnclosureList

Syntax:

dscli getBladeEnclosureList

Description:

Displays the list of the blade enclosure in which the managed component or the EM card registered on NEC ESMPRO Manager is installed.

The list includes the system that has one or more components in a chassis.

Output:

Displays the list of the blade enclosure with the component or the EM card registered on NEC ESMPRO Manager.

2.4.2 getChassisSlotState

Syntax:

dscli getChassisSlotState ChassisName

Description:

Displays the state of blade slots when the specified chassis is a blade enclosure. The list of the EM card and the switch module are displayed if the EM card and the switch module are installed in chassis. The list includes the system that has one or more components in a chassis.

Options:

ChassisName Specify the chassis name.

Output:

Following information is shown for each slot.

Contents	Explanation					
slot number	Displays the slot num	nber.				
	Displays two slot nut	mbers when the installed blade has double wide or full height.				
slot state	component name	Displays the component name when the component is				
		installed in the slot and it is registered on NEC ESMPRO				
		Manager. For double wide blade, displays "(Double-wide)"				
		following the component name. For full height blade,				
		displays "(Full-height)" following the component name.				
	Installed	ed Displays "Installed" when the switch module is installed in				
		the slot.				
	Not registered	Displays "Not registered" when the component is installed				
		in the slot and it is not registered on NEC ESMPRO				
		Manager.				
	Not installed	Display "Not Installed" when nothing is installed in the slot.				
	(blank)	Displays nothing if "Installed" and "Not Registered" cannot				
		be distinguished.				

The following shows an example.

```
CPU Blade:
1: SERVER 0001
2: SERVER_0002
3,4: SERVER_0003 (Double-wide)
5: Not installed
6: Not registered
7: Not installed
8: Not registered
EM Card:
1.EM0001
2.EM0002
Switch Module:
1: Installed
2: Installed
3: Not installed
4: Not installed
5: Not installed
6: Not installed
```

2.4.3 getChassisInfo

Syntax:

dscli getChassisInfo ChassisName

Description:

Displays information on the specified chassis.

Options:

ChassisName

Specify the chassis name.

Output:

Display information on the specified chassis.

Item Name	Contents
Chassis Name	Name of the chassis.
Comments	Comments of the chassis
Rack Name	Displays the rack name which is set on the EM card.
Rack ID	Displays the rack id which is set on the EM card.
Unit Name	Displays the unit name which is set on the EM card.
Serial Number	Displays the chassis serial number of the blade enclosure.

2.4.4 setChassisProperty

Syntax:

dscli setChassisProperty ChassisName PropertyName Value

Description:

Sets the chassis property of a chassis.

Options:

ChassisName

Specify the chassis name.

PropertyName

Specify the name of the chassis property. See the list below.

Value

Specify a new value to be set. See the list below.

PropertyName	Contents	Value
CHASSIS_NAME	Specify the name of the chassis.	Up to 32 characters.
CHASSIS COMMENT	Enter the comments of the chassis.	Up to 100 characters.

TIP:

• The name of chassis that is already registered cannot be specified to *ChassisName*.

2.4.5 getChassisProperty

Syntax:

dscli getChassisProperty ChassisName PropertyName

Description:

Displays the property of the specified chassis.

Options:

ChassisName

Specify the chassis name.

PropertyName

Specify the name of chassis property. For the list of chassis properties, see the 2.4.4 setChassisProperty command.

Output:

Display the property of a chassis.

2.4.6 setBladeAutoSetting

Syntax:

dscli setBladeAutoSetting ChassisName SlotNumber PropertyName Value

Description:

This command is effective only to the chassis in which EM card can be installed.

If NEC ESMPRO Manger 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 remotely.

Set information to perform the configuration of BMC on CPU blade and the component registration automatically.

Options:

ChassisName

Specify the chassis name.

SlotNumber

Specify the slot number of CPU blade. When a common value to all slots is set, "all" is specified.

PropertyName

Specify the name of the chassis property. See the list below.

Value

Specify a new value to be set. See the list below.

PropertyName	Contents	Value	
AUTH_KEY	Specify the authentication key that is configured on BMC.	Up to 16 characters	
RECONFIGURE_ BMC	"Enabled" means that NEC ESMPEO	0: Disabled	
	Manager executes BMC configuration not	1: Enabled	
	only new installed CPU blade but also all		
	CPU blade. "Disabled" means that NEC		
	ESMPRO Manager executes BMC		
	configuration only if BMC on new installed		
	CPU blade has not been configured.		
REWRITE_IP_ADDRE	IP address of the BMC on the CPU blade	0: Disabled	
SS	may be obtained by DHCP even through the	1: Enabled	
	BMC configuration has not been executed.		
	If this option is set "Enable", NEC ESMPRO		
	Manager always update the IP address		
	when BMC configuration is executed.		
DHCP	BMC automatically acquires IP address from	0: Disabled	
	DHCP.	1: Enabled	
IP_ADDRESS	Specify IP address set to CPU blade. When	IP Address form	
	you specify "all" for "SlotNumber" option, IP		
	address consecutive from specified IP		
	address is sequentially set from the first slot.		
SUBNET_MASK	Specify the subnet mask.	IP Address form	
DEFAULT_GATEWAY	Specify the default gateway.	IP Address form	
ALERT_RECEIVER_IP Specify the alert receiver(1)/IP address of		IP Address form	
_ADDRESS	PC for management.		

2.4.7 getBladeAutoSetting

Syntax:

dscli getBladeAutoSetting ChassisName SlotNumber

Description:

This command is effective only to the chassis that can install the EM card.

Display information to perform configuration of BMC of a CPU blade and component registration automatically when NEC ESMPRO Manager detects new CPU blade installed on the chassis. See 2.4.6 setBladeAutoSetting for each information details.

Options:

ChassisName Specify the chassis name.

SlotNumber

Specify the slot number of CPU blade.

Output:

The following shows an example.

```
RECONFIGURE_BMC:Disable
REWRITE_IP_ADDRESS:Diasable
DHCP:Enable
ALERT_RECEIVER_IP_ADDRESS:192.168.14.18
```

2.5 Communication Management Commands

2.5.1 connect

Syntax:

dscli connect Component

Description:

Connects to a managed component with via modem or with direct connection according to the connection type of the component property.

Options:

Component

Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

2.5.2 disconnect

Syntax: dscli disconnect

Description:

Disconnects the currently connected line.

2.5.3 getConnectionStatus

Syntax:

dscli getConnectionStatus

Description:

Displays the status of the serial connection (via modem or with direct connection).

Output:

Displays the status of the serial connection.	There are following status:
CONNECTING	Now connecting.
CONNECTED	Connection is complete.
DISCONNECTING	Now disconnecting.
DISCONNECTED	Disconnection is complete.
CONNECTION_FAILURE	Failed to connect.
NO_CARRIER	Line is disconnected.
BUSY	Now talking.
NO_DIALTONE	Cannot detect dialtone.

2.6 Environment Setting Commands

2.6.1 setOption

Syntax:

dscli setOption OptionName Value

Description:

Sets an option of the NEC ESMPRO Manager.

Options:

OptionName

Specify a name of the NEC ESMPRO Manager option. See the list below.

Value

Specify new value to be set. See the list below.

OptionName	Contents	Value	Default
BMC_RETRY_COUNT	Specify Retry count for communicating to BMC on a managed comparent	0-10	5
	managed component.	4.45	<i>c</i>
BMC_TIMEOUT	to BMC on a managed component.	1-15	5
BMC_SOURCE_PORT	Specify a UDP port number for communicating to BMC on a managed component.	1025-65535	47117
CUI_NO_RESPONSE_TI MEOUT	Specify times (in seconds) until the remote console is disconnected due to a communication timeout.	20-1800	60
CUI_SYS_RQ_KEY	Specify alias for SysRq key on CUI remote console.	"": Not specified "Q": Ctrl+Alt+Q "X": Ctrl+Alt+X	""
HISTORY_LOG_NUMBER	Specify maximum number of	2000-10000	2000
_OF_RECORDS	application logs.		
MODEM_PORT_NUMBER	Specify a serial port on NEC ESMPRO Manager component. The serial port is used for communicating to the managed component via modem or with direct connection.	1-8	1
MONITORING_ENABLE	Determine whether to enable/disable the component monitoring function that monitors the power status and the STATUS lamp on each managed component.	0: Disabled 1: Enabled	1
MONITORING_AUTO_UP DATE_INTERVAL	Specify interval times (in seconds) to update automatically the displays of component status.	1-60	5
RC_POWER_CONTROL_I NTERVAL_MILLIS	Specify interval times (in milliseconds) at which power control is performed continuously for multiple components.	0-5000	500
RMI_PORT	Specify a TCP port number for RMI.	1024 - 65535	1099

2.6.2 getOption

Syntax:

dscli getOption OptionName

Description:

Displays an option of the NEC ESMPRO Manager.

Options:

OptionName

Specify a name of the NEC ESMPRO Manager option. See 2.6.1 setOption for option list.

Output:

Display the value of the specified option.

2.6.3 getPermitIpAddrList

Syntax:

```
dscli getPermitIpAddrList
```

Description:

Displays the IP address ranges in which login to NEC ESMPRO Manager is permitted. Only the Web clients in this IP address ranges are possible to login to NEC ESMPRO Manager.

Output:

Displays the list of IP address ranges. The following shows an example.

No.1: 192.168.0.1 - 192.168.0.254 No.2: 192.168.1.10 No.3: 192.168.2.10

2.6.4 isPermitlpAddr

Syntax:

dscli isPermitIpAddr CheckIpAddr

Description:

Checks whether a specified IP address is permitted for login from a Web client and displays the check result.

Options:

CheckIpAddr

Specify IP address.

Output:

Displays the result of IP address check.

OKmeans this IP address is permittedNGmeans this IP address is not permitted.

2.6.5 addPermitIpAddr

Syntax:

dscli addPermitIpAddr StartIpAddr [EndIpAddr]

Description:

Adds an IP address range in which login to NEC ESMPRO Manager is permitted. Only the Web clients in this IP address ranges are possible to login to NEC ESMPRO Manager.

TIP:

• You can login to NEC ESMPRO Manager from a web browser on the component that NEC ESMPRO Manager is installed even if the IP address is not permitted using this command.

Options:

StartIpAddr

Specify the start IP address of IP address range to permit login.

EndIpAddr

Specify the end IP address of IP address range. If this option is omitted, it will be permitted the single IP address that is specified in the *StartIAddr* option.

2.6.6 removePermitIpAddr

Syntax:

dscli removePermitIpAddr StartIpAddr [EndIpAddr]

Description:

Removes IP address range in which login from a Web client is permitted.

Options:

StartIpAddr

Specify the start IP address of IP address range.

EndIpAddr

Specify the end IP address of IP address range.

2.6.7 clearPermitIpAddr

Syntax: dscli clearPermitIpAddr

Description:

Removes all IP address ranges in which login from a Web client is permitted.

2.7 User Management Commands

2.7.1 createUser

Syntax:

dscli createUser UserName Password

Description:

Registers a new user that can login to the NEC ESMPRO Manager from web browser. The user level of the user to be registered is "operator". Up to 30 users can be created.

Options:

UserName

Specify a new user name. Up to 16 characters.

Password

Specify a login password for the new user. You can input the password with 6 - 16 letters.

TIP:The name of user that is already registered cannot be specified to *UserName*.

2.7.2 deleteUser

Syntax: dscli deleteUser UserName

Description:

Deletes a user that can login to the NEC ESMPRO Manager from web browser.

Options:

UserName

Specify a name of the user.

2.7.3 getUserList

Syntax:

```
dscli getUserList
```

Description:

Displays the list of registered user names and levels. "Administrator" or "Operator" is displayed as the user level.

Output:

The following shows an example.

Admin	Administrator
User1	Operator
User2	Operator
:	
:	

2.7.4 setUserProperty

Syntax:

dscli setUserProperty UserName PropertyName Value

Description:

Sets a property of a specified user.

Options:

UserName

Specify a user name.

PropertyName

Specify a property name. See the list below. It is valid for "Operator" level user to change the executable authority. OK : Enable to change, NG : Disable to change

Value

Specify new value to be set. See the list below.

PropertyName	Contents	Value	Default	Admini- strator	Ope- rator
USER_NAME	Specify the user name	Up to 16 characters.	(Blank)	ОК	ОК
USER_PASSWORD	Specify the login password.	6-16 characters.	(Blank)	ОК	ОК
USER_COMMENT	Specify the comment about the user.	Up to 100 characters.	(Blank)	ОК	OK
UL_POWER_ON	Specify the enable/disable of Power ON.	0: Disabled 1: Enabled	0	NG	ОК
UL_POWER_OFF	Specify the enable/disable of Power OFF function.	0: Disabled 1: Enabled	0	NG	OK
UL_RESET	Specify the enable/disable of Reset function.	0: Disabled 1: Enabled	0	NG	ОК
UL_POWER_CYCLE	Specify the enable/disable of Power Cycle function.	0: Disabled 1: Enabled	0	NG	ОК
UL_SHUTDOWN	Specify the enable/disable of Shutdown OS function.	0: Disabled 1: Enabled	0	NG	ОК
UL_DUMP	Specify the enable/disable of DUMP switch function.	0: Disabled 1: Enabled	0	NG	OK
UL_SEL_CLEAR	Specify the enable/disable of Clear System Event Log function.	0: Disabled 1: Enabled	0	NG	ОК
UL_BMC_REMOTE	Specify the enable/disable of Change BMC Configuration function.	0: Disabled 1: Enabled	0	NG	ОК
UL_CONFIG_CREATE	Specify the enable/disable of Add Component function.	0: Disabled 1: Enabled	0	NG	ОК
UL_CONFIG_CHANGE_ DELETE	Specify the enable/disable of Set Component Property function and Delete Component function.	0: Disabled 1: Enabled	0	NG	ОК
UL_REMOTE_CONSOLE	Specify the enable/disable of Remote Console function.	0: Disabled 1: Enabled	0	NG	OK
UL_SCHEDULE	Specify the enable/disable of Set Schedule function.	0: Disabled 1: Enabled	0	NG	ОК

PropertyName	Contents	Value	Default	Admini- strator	Ope- rator
	Specify the enable/disable of Remote	0: Disabled	0	NG	OK
OL_REMOTE_BATCH	Batch function.	1: Enabled			
UL_SET_POWER_REST	Specify the enable/disable of Change	0: Disabled	0	NG	OK
ORE_DELAY	Power Option Setting.	1: Enabled			
UL_SET_AGENT_SETTI	Specify the enable/disable of Change	0: Disabled	0	NG	OK
NG	Agent Setting.	1: Enabled			
UL_SET_CONSOLE_LO	Specify the enable/disable of Change	0: Disabled	0	NG	OK
G	Console log Setting.	1: Enabled			
UL_SET_ENVIRONMEN	Specify the enable/disable of Change	0: Disabled	0	NG	OK
T_OPTION	Environment Setting.	1: Enabled			
UL_SET_BLADE_AUTO_	Specify the enable/disable of Change	0: Disabled	0	NG	OK
SETTING	CPU Blade Auto Setting.	1: Enabled			
UL_ELECTRIC_POWER	Specify the enable/disable of Start or	0: Disabled	0	NG	OK
_MONITORING	Stop Read Power Value.	1: Enabled			
UL_SET_SERVER_DOW	Specify the enable/disable of Change	0: Disabled	0	NG	OK
N_MONITORING	Component Monitoring function.	1: Enabled			
	Specify the enable/disable of Change	0: Disabled	0	NG	OK
	maintenance and update of CPU/PCI	1: Enabled			
MAINTENANCE	module.				

TIP:

• The name of user that is already registered cannot be specified to USER_NAME.

2.7.5 getUserProperty

Syntax:

dscli getUserProperty PropertyName

Description:

Displays a property of a specified user.

Options:

UserName

Specify a user name.

PropertyNameName

Specify a property name. See 2.7.4 setUserProperty. But "USER_PASSWORD" property is not displayed.

Output:

Displays a property of a specified user.

2.8 Other Commands

2.8.1 getApplicationLog

Syntax:

```
dscli getApplicationLog [Number]
```

Description:

Displays the latest application logs up to the number that is specified by Number option.

Options:

Number

Specify the number of logs to be displayed. If this option is omitted, the latest 10 logs are displayed.

Output:

Displays the application logs. Each log includes date, a managed component name, OS IP address of the managed component, BMC IP address, user name and event.

2.8.2 about

Syntax: dscli about

Description:

Displays version information of NEC ESMPRO Manager.

Output:

Displays version information of NEC ESMPRO Manager.

2.8.3 help

Syntax: dscli help [CommandName]

Description:

Displays help information. If no options are specified, a command list will be displayed. If an option is specified, the help information of the specified command will be displayed.

Options:

CommandName Specify a command name.

Output:

Display the command list or the help information of the specified command.

Appendix A. List of Support Commands for BMC (Other) or iLO component

A user can execute the following command set against BMC (Other) or iLO components via command line interface of NEC ESMPRO Manager.

See "NEC ESMPRO Manager Ver.7 Setup Guide" for more information about BMC (Other) or iLO components.

IMPORTANT:

• If Redfish is selected as the access mode in BMC (Other), other commands in the table except 2.1.1 to 2.1.7 are not supported.

- : NOT SUPPORT			
Commond	BMC (0	il O	
Command	BMC	CMC	ILU
2.1.1 getList	supported	supported	supported
2.1.2 createGroup	supported	supported	supported
2.1.3 deleteGroup	supported	supported	supported
2.1.4 moveGroup	supported	supported	supported
2.1.5 setGroupProperty	supported	supported	supported
2.1.6 getGroupProperty	supported	supported	supported
2.1.7 getGroupStatus	supported	supported	supported
2.1.8 groupPowerOn	supported	-	-
2.1.9 groupPowerOff	supported	-	-
2.1.10 groupReset	supported	-	-
2.1.11 groupPowerCycle	supported	-	-
2.1.12 groupShutdownOs	supported (*1)	-	-
2.1.13 groupSetPowerRestoreDelay	-	-	-
2.1.14 groupGetRemoteKymLicense	-	_	_
2.2.1 getServerList	supported	supported	supported
2.2.2 getServerNameBvMacAddr	supported	supported	
2.2.3 getServerNameByGuid	supported	supported	supported
2.2.4 findNewServer	-	-	-
2.2.5 findNewServerNetAddr	-	-	-
2.2.6 createServer	-	-	-
2.2.7 deleteServer	supported	supported	supported
2.2.8 checkConnection	supported	supported	
2.2.9 setServerProperty	supported	supported	supported
2.2.10 moveServer	supported	supported	supported
2.2.11 getServerGroup	supported	supported	supported
2.2.12 setCurrentPort	supported	supported	supported
2.2.13 getServerProperty	supported	supported	supported
2.2.14 getServerInfo	supported	supported	-
2.2.15 getDeviceId	supported	supported	-
2.2.16 getGuid	supported	supported	supported
2.2.17 getProductName	supported	supported	-
2.2.18 getSoftwareInfo	-	-	-
2.2.19 setShutdownPolicy	-	-	-
2.2.20 getShutdownPolicy	-	-	-
2.2.21 setPowerRestoreDelay	-	-	-
2.2.22 getPowerRestoreDelay	-	=	-

Commond	BMC (Other)		il O	
Command	BMC	CMC	iLO	
2.2.23 setBmcInfo	-	-	-	
2.2.24 getBmcInfo	-	-	-	
2.2.25 setAuthKey	-	-	-	
2.2.26 setSensorLevel	-	-	-	
2.2.27 getSensorLevel	-	-	-	
2.2.28 getAgentExtensionLog	-	-	-	
2.2.29 testAlert	-	-	-	
2.2.30 getTestAlertStatus	-	-	-	
2.2.31 getServerStatus	supported	supported	-	
2.2.32 getPowerStatus	supported	-	-	
2.2.33 getStatusLamp	supported	supported	-	
2.2.34 getPanelInfo	supported	supported	-	
2.2.35 powerOn	supported	-	-	
2.2.36 powerOff	supported	-	-	
2.2.37 reset	supported	-	-	
2.2.38 powerCycle	supported	-	-	
2.2.39 shutdownOs	Supported			
	(*1)	-	-	
2.2.40 dumpSwitch	supported	-	-	
2.2.41 clearSel	supported	supported	-	
2.2.42 identifyChassis	supported	-	-	
2.2.43 getIpmiInfo	supported	supported	-	
2.2.44 getSensorList	supported	supported	-	
2.2.45 getSensorStatus	supported	supported	-	
2.2.46 getConsoleLog	supported	-	-	
2.2.47 setBmcIpSync	-	-	-	
2.2.48 getBmcIpSync	-	-	-	
2.2.49 getBladeSlotId	-	-	-	
2.2.50 deleteBmcUser	-	-	-	
2.2.51 getBmcUserList	-	-	-	
2.2.52 setBmcUserInfo	-	-	-	
2.2.53 getBmcUserInfo	-	-	-	
2.2.54 setPowerRestorePolicy	supported	-	-	
2.2.55 getPowerRestorePolicy	supported	-	-	
2.2.56 getSystemFtLamp	-	-	-	
2.3.1 getEmCardList	-	-	-	
2.3.2 getEmActiveState	-	-	-	
2.3.3 identifyEm	-	-	-	
2.3.4 getEmStatusLamp	-	-	-	
2.4.1 getBladeEnclosureList	supported	supported	-	
2.4.2 getChassisSlotState	supported	supported	-	
2.4.3 getChassisInfo	supported	supported	-	
2.4.4 setChassisProperty	supported	supported	-	
2.4.5 getChassisProperty	supported	supported	-	
2.4.6 setBladeAutoSetting	-	-	-	
2.4.7 getBladeAutoSetting	-	-	-	
2.5.1 connect	-	-	-	
2.5.2 disconnect	-	-	-	
2.5.3 getConnectionStatus	-	-	-	

(*1) Supports only forced shutdown.

TIP:
If you execute the Group management Commands which is not supported for BMC (other) components, execute commands using "/exs" option in order to exclude those components.