NEC

Command Line Interface

Document Rev.1.17

Contents

Trademarks

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About This Document

This document introduces command line interface of the server management utility "NEC DianaScope".
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 servers. The notes and restrictions on use of each product as a managed server are explained in the user's guide provided with the managed server.

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

■ For other information about the NEC DianaScope

See the documents below.

NEC DianaScope Installation and setup for the managed server

See the "NEC DianaScope Installation Manual". Before attempting to operate the server management utility NEC DianaScope, read this document so as to gain an adequate understanding of the contents.

Managed Servers

See the "NEC DianaScope Managed Servers Summary".

Operations on Web browser

See online help of NEC DianaScope.

See the following URL for the latest information:
http://www.nec.co.jp/express/

Chapter1 About Command Line Interface

The NEC DianaScope command line interface provides a set of commands that can control managed servers through the command line from the management PC.
The set of commands covers almost the same functions that can be executed by using the web browser.

The following commands are available:

- **Group management Commands**
  Use to operate a group due to operate more than one managed servers through a single operation.
- **Server Management Commands**
  Use to operate a managed server.
- **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 server via modem or directly.
- **Environment Setting Commands**
  Use to view and change the settings of NEC DianaScope Manager.
- **User Management Commands**
  Use to manage users who operate NEC DianaScope on web browser.
- **Other Commands**

1.1 System Requirements

The NEC DianaScope command line interface can be executed only on a PC (called a DianaScope server) that is installed the NEC DianaScope Manager.

The NEC DianaScope command line interface requires following user level of operating system:

On Windows:	Administrator
On Linux:	root

TIPS:
- See “NEC DianaScope Installation Manual” about the system requirement of NEC DianaScope 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 DianaScope command line interface
CommandName :	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 setServerProperty MyServer SERVER_COMMENT “”
```

Example 2: Input special characters

```
dscli setServerProperty MyServer CFG_SERIAL_INIT “ATE1Q0V1X4&D2&C1S0=0”
```

(2) When entering MAC address:

Input MAC address as hexadecimal number that is delimited to octets by hyphen. 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 hyphen. 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.

TIPS:

- Manager Ver.1.03.05 and above supports the command format that MAC address or GUID is specified as Server option.

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

TIPS:

- If a command is executed with a shell script, the end status can be confirmed with "ERRORLEVEL" for Windows and "$?" for Linux.

1.4 Example

The procedure to manage a managed server on via is as follows:

(1) Register a server license key for the number of managed servers using addLicenseKey command.

(2) Creates a new server group using createGroup command.

(3) Register a managed server using createServer command.

(4) Perform a "Check Connection" for the managed server using checkConnection command.

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

Chapter2 Command Summary

2.1 Group management Commands

2.1.1 getGroupList

Syntax:
`dscli getGroupList`

Description:
Displays the list of registered group names.

Output:
Displays the list of registered group names. The following shows an example.

```
Group1
Group2
Group3
:
:
```

2.1.2 createGroup

Syntax:
`dscli createGroup` *`GroupName`*

Description:
Creates a new server group. As many groups as managed servers can be created.

Options:
`GroupName`
Specify the name of the managed server group. You can input up to 20 characters.

2.1.3 deleteGroup

Syntax:
`dscli deleteGroup` *`GroupName`*

Description:
Deletes a specified group. All managed servers in the group are also deleted.

Options:
`GroupName`
Specify the name of the group.

2.1.4 getGroupServerList

Syntax:
`dscli getGroupServerList` *`GroupName`*

Description:
Displays the name list of managed servers included in a specified server group.

Options:
`GroupName`
Specify the name of group.

Output:
Displays the name list of managed servers included in a specified server group. The following shows an example.

```
Server1
Server2
Server3
:
:
```

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:

PropertyName	Contents	Value	Default
GROUP_NAME	Specify the name of the group.	Up to 16 characters.	(None)
GROUP_COMMENT	Enter the comments of the group.	Up to 100 characters.	(Blank)

`Value`
Specify a new value to be set.

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 getGroupFaultCondition

Syntax:
`dscli getGroupFaultCondition` *`GroupName`*

Description:
Displays fault condition of a specified server group.
When a server monitoring function or a fault message monitoring function detects fault condition of the managed server and sets the status.

Options:
`GroupName`
Specify the name of group.

Output:
Displays fault condition of the specified server group. There are three types of fault conditions.

NORMAL	Normal
WARNING	The following fault condition was detected in a managed server. - Power OFF - The STATUS lamp on or blinking. - A fault message is displayed on the console.
ERROR	Communication error. If the “Check Connection” is not completed, the fault condition is also set.

2.1.8 groupPowerOn

Syntax:
`dscli groupPowerOn GroupName ["f" FileName | "p" | "u"]`

Description:
Turns on managed servers in a specified group.

> **IMPORTANT:**
> - In case that the managed server does not support a remote FD function, a remote FD function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.
> - In case that the managed server does not support a force network-boot function which boots the server from network regardless of boot order, a force network-boot function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.

Options:
GroupName
Specify the name of group.

"f"
(Recommended)
Force boot from the specified FD image file after the power is turned on.

FileName
Specify the FD image file. If a pathname is omitted, a file in the current directory is specified.

"p"
(Recommended)
Force boot from network after the power is turned on.

"u"
If you specify "u" option, the managed servers will boot up in utility boot mode after the power is turned on. This option is used to boot the maintenance partition or DOS applications.
If "1" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from the FD image file specified by RC_SERVER_RD_IMAGE_FILE of the server properties.
If "2" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from network.

> **TIPS:**
> - DianaScope Manager Ver.1.03.04 and above supports "f", "p" options.
> - You can create the FD image file on web browser interface of the NEC DianaScope. Log in the NEC DianaScope and click the "Tools" on the header menu.
> - See 2.2.11 setServerProperty for server properties.

Output:
If error has occurred, the name and the error message about each error-occurred managed server is displayed. The following shows an example.

```
Server1  : Connection to the server could not be made. (Timeout)
Server2  : Connection to the server could not be made. (Authentication error)
```

2.1.9 groupPowerOff

Syntax:
`dscli groupPowerOff` *`GroupName`*

Description:
Forcibly turns off managed servers in a specified group.

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

CHECK:
- This command is not available for ft Server.

Options:
`GroupName`
Specify the name of group.

Output:
If error has occurred, the name and the error message about each error-occurred managed server is displayed. The following shows an example.

```
Server1  : Connection to the server could not be made. (Timeout)
Server2  : Connection to the server could not be made. (Authentication error)
```

2.1.10 groupReset

Syntax:
`dscli groupReset` *`GroupName ["f" FileName | "p" | "u"]`*

Description:
Forcibly resets managed servers in a specified group.

IMPORTANT:
- Since remote power control using NEC DianaScope is provided by hardware regardless of the condition of operating system on the managed server, the system may be damaged. Be careful when you perform remote power control. Reconfirm the status of the managed server before power controls.
- In case that the managed server does not support a remote FD function, a remote FD function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.
- In case that the managed server does not support a force network-boot function which boots the server from network regardless of boot order, a force network-boot function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.

CHECK:
- This command is not available for ft Server.

Options:

GroupName

Specify the name of group.

"f"

(Recommended)
Force boot from the specified FD image file after reset.

FileName

Specify the FD image file. If a pathname is omitted, a file in the current directory is specified.

"p"

(Recommended)
Force boot from network after reset.

"u"

If you specify "u" option, the managed servers will boot up in utility boot mode after reset. This option is used to boot the maintenance partition or DOS applications.
If "1" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from the FD image file specified by RC_SERVER_RD_IMAGE_FILE of the server properties.
If "2" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from network.

TIPS:

- DianaScope Manager Ver.1.03.04 and above supports "f", "p" options.
- You can create the FD image file on web browser interface of the NEC DianaScope. Log in the NEC DianaScope and click the "Tools" on the header menu.
- See 2.2.11 setServerProperty for server properties.

Output:

If error has occurred, the name and the error message about each error-occurred managed server is displayed. The following shows an example.

```
Server1  : Connection to the server could not be made. (Timeout)
Server2  : Connection to the server could not be made. (Authentication error)
```

2.1.11 groupPowerCycle

Syntax:
`dscli groupPowerCycle` *`GroupName ["f" FileName | "p" | "u"]`*

Description:
Forcibly turns off managed servers in a specified group and then turns them on.

IMPORTANT:
- Since remote power control using NEC DianaScope is provided by hardware regardless of the condition of operating system on the managed server, the system may be damaged. Be careful when you perform remote power control. Reconfirm the status of the managed server before power controls.
- In case that the managed server does not support a remote FD function, a remote FD function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.
- In case that the managed server does not support a force network-boot function which boots the server from network regardless of boot order, a force network-boot function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.

CHECK:
- This command is not available for ft Server.

Options:
`GroupName`
Specify the name of group.

`"f"`
(Recommended)
Force boot from the specified FD image file after the power is turned on.

`FileName`
Specify the FD image file. If a pathname is omitted, a file in the current directory is specified.

`"p"`
(Recommended)
Force boot from network after the power is turned on.

`"u"`
If you specify "u" option, the managed servers will boot up in utility boot mode after the power is turned on. This option is used to boot the maintenance partition or DOS applications.
If "1" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from the FD image file specified by RC_SERVER_RD_IMAGE_FILE of the server properties.
If "2" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from network.

TIPS:
- DianaScope Manager Ver.1.03.04 and above supports "f", "p" options.
- You can create the FD image file on web browser interface of the NEC DianaScope. Log in the NEC DianaScope and click the "Tools" on the header menu.
- See 2.2.11 setServerProperty for server properties.

Output:
If error has occurred, the name and the error message about each error-occurred managed server is displayed. The following shows an example.

```
Server1  : Connection to the server could not be made. (Timeout)
Server2  : Connection to the server could not be made. (Authentication error)
```

2.1.12 groupShutdownOs

Syntax:
`dscli groupShutdownOs` *`GroupName ["force"]`*

Description:
Shut downs operating systems on managed servers in a specified group.
This command via LAN instructs the NEC DianaScope Agent 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 DianaScope Agent or the NEC ESMPRO Agent.

Options:
`GroupName`
Specify the name of group.

`"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.

Output:
If error has occurred, the name and the error message about each error-occurred managed server is displayed. The following shows an example.

```
Server1  : Connection to the server could not be made. (Timeout)
Server2  : Connection to the server could not be made. (Authentication error)
```

2.1.13 groupDumpSwitch

Syntax:
`dscli groupDumpSwitch` *`GroupName`*

Description:
Pushes DUMP switch on managed servers in a specified group.

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

Options:
`GroupName`
Specify the name of group.

Output:
If error has occurred, the name and the error message about each error-occurred managed server is displayed. The following shows an example.

```
Server1  : Connection to the server could not be made. (Timeout)
Server2  : Connection to the server could not be made. (Authentication error)
```

2.1.14 groupSetPowerRestoreDelay

Syntax:
`dscli groupSetPowerRestoreDelay` *`GroupName DelayTime [Policy]`*

Description:
Changes the power option that specifies working of managed servers in a specified group when they are turned AC ON.
The power option includes AC-LINK policy and the time that delays Power ON (DC ON) when the managed server is set to be turned DC ON in time with AC ON.

IMPORTANT:
- In case that the managed server does not support a setting of power restore delay, this command is invalid. See "NEC DianaScope Managed Servers Summary" whether the managed server supports the function.

Options:
`GroupName`
Specify the name of group.

`DelayTime`
Specify delay time in the range 0-255 seconds. When -1 is specified, the delay time is not changed.

`Policy`
Sets AC-Link Policy. No change is made if omitted There are 3 types of the policy.

100	STAY_OFF. The managed server is DC OFF when it is turned AC ON.
101	LAST_STATE If the managed server is turned AC OFF during it is in DC OFF, the managed server is DC OFF when it is turned AC ON. If the managed server is turned AC OFF during it is in DC ON, the managed server is turned DC ON after the delay time when it is turned AC ON.
102	ALWAYS_POWER_ON The managed server is turned DC ON after the delay time when it is turned AC ON.

Output:
If error has occurred, the name and the error message about each error-occurred managed server is displayed. The following shows an example.

```
Server1  : Connection to the server could not be made. (Timeout)
Server2  : Connection to the server could not be made. (Authentication error)
```

2.1.15 getGroupRemoteKvmLicenseList

Syntax:
`dscli getGroupRemoteKvmLicenseList` *`GroupName`*

Description:
Displays the state of “Remote KVM and Media License” for each managed servers in a specified group.

Options:
`GroupName`
Specify the name of group.

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 server.
-	The state of “Remote KVM and Media License” is unknown.

The following shows an example.

```
Server1      Installed
Server2      Installed
Server3      Not Insatlled
Server4      Unsupported

:
:
```

TIPS:
- DianaScope Manager Ver.1.06.04 and above supports this command.

2.2 Server Management Commands

2.2.1 getServerList

Syntax:
`dscli getServerList *["d"]*`

Description:
Displays the name list of all managed servers registered on NEC DianaScope.

Options:
"d"

If you specify "d" option, the managed servers list will indicate server name, GUID and MAC address of each server. Added information below is also indicated.

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

TIPS:
- DianaScope Manager Ver.1.02.00 and above supports "d" option of the command.

Output:
Displays the name list of all managed servers registered on NEC DianaScope. The following shows an example.

If "d" option is not specified:

```
Server1
Server2
Server3
:
:
```

If "d" option is specified:

```
Server1
GUID: 02010202-0000-0000-0000-000000000000
MAC1: 00-30-13-f1-00-5a
MAC2: 00-30-13-f1-00-5b

Server2
GUID: 00301316-cdfe-0180-0010-846e8062d906
MAC1: 00-30-13-16-cd-fe

Server3
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 server that has the specified MAC address.

Options:
`MacAddress`
Specify a MAC address.

The following shows an example.

```
dscli getServerNameByMacAddr 00-30-13-f1-00-5a
```

Output:
Displays the name of the managed server. The following shows an example.

```
Server1
```

TIPS:
- DianaScope Manager Ver.1.03.05 and above supports this command.

2.2.3 getServerNameByGuid

Syntax:
`dscli getServerNameByGuid` *`GUID`*

Description:
Displays the name of the managed server that has the specified GUID.

Options:
`GUID`
Specify a GUID.

The following shows an example.

```
dscli getServerNameByGuid 00301316-cdfe-0180-0010-846e8062d906
```

Output:
Displays the name of the managed server. The following shows an example.

```
Server2
```

TIPS:
- DianaScope Manager Ver.1.03.05 and above supports this command.

2.2.4 findNewServer

Syntax:
`dscli findNewServer` *`StartIpAddr EndIpAddr`*

Description:
Finds managed servers that are not registered on NEC DianaScope according to IP address range specification.

TIPS:
- To register the managed server 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 servers. 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 managed servers that are not registered on NEC DianaScope according to Network address specification.

> **TIPS:**
> - To register the managed server that is found using findNewServer 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 servers same as the output by "findNewServer" command. See 2.2.4 findNewServer.

2.2.6 createServer

Syntax:
`dscli createServer` *`ServerName GroupName AuthKey [IpAddr1] [IpAddr2]`*

Description:
Newly registers a managed server on the NEC DianaScope. The maximum number of managed servers that can be registered depends on the number of server licenses.

> **TIPS:**
> - Add server license key using 2.8.2 addLicenseKey command.

Options:
`ServerName`
Specify the name of the managed server. You can input up to 15 characters.
`GroupName`
Specify the name of group that the managed server belongs to.
`AuthKey`
Specify the authentication key that is configured on BMC.
`IpAddr1`
Specify the IP address of the managed server's BMC. This option is omissible if you control the managed server via modem or with direct connection.
`IpAddr2`
Specify the extra IP address of the managed server's BMC. This option is omissible.

> **TIPS:**
> - Set other server properties using 2.2.11 setServerProperty command.

2.2.7 deleteServer

Syntax:
`dscli deleteServer` *`Server`*

Description:
Deletes the specified managed server that is registered on the NEC DianaScope.

Options:
`Server`
Specify the name, the MAC address or the GUID of the managed server.

2.2.8 checkConnection

Syntax:
`dscli checkConnection` *`Server ["new"]`*

Description:
Confirms connection with a managed server. This command also collects information for remote control of the managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server..

`"new"`
Execute the command with "new" option if the managed server is replaced.

2.2.9 findRegServer

Syntax:
`dscli findRegServer` *`Server(1) [Server(2)]… [Server(N)]`*

Description:
Finds managed servers that have been registered on the NEC DianaScope according to subnet mask of the server property. When the IP address of the managed server has been changed, the NEC DianaScope will obtain new IP address and update IP address of the server property for the managed server.
This command can use for the managed servers that the NEC DianaScope has completed checkConnection command and have selected LAN as the connection type.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.. You can specify plural options.

Output:
Displays found managed server list and not-found managed server as “Stray Server”.

2.2.10 setServerPropertyToDefault

Syntax:
`dscli setServerPropertyToDefault` *`Server PropertyName`*

Description:
Resets the registered server properties to the defaults.

Options:
`Server`

Specify the name, the MAC address, or the GUID of the managed server.

`PropertyName`

Specify the name of the server property to be reset to the default. See the server property list below. When "ALL" is specified, all the server properties of the list are reset to the defaults.

PropertyName	Contents	Value	Default
CONSOLE_LOG_ENABLE	Determine whether to enable/disable the get console log function to save the Remote Console screen data in text format.	0: Disabled 1: Enabled	1
CONSOLE_LOG_SIZE	Specify the maximum size (in KB) of the console log.	4 - 1000	64
CONSOLE_LOG_KEEP_CONNECTION	Determine whether to get console log even while remote console is not open on web browser.	0: Disabled 1: Enabled	0
CONSOLE_LOG_FAULT_MESSAGE_MONITORING	Determine whether to enable/disable the fault message monitoring function that set fault condition when a fault message string is found on head of each console log line.	0: Disabled 1: Enabled	1
CONSOLE_LOG_FAULT_MESSAGE_IDENTIFIER	Specify the character string for the fault message monitoring function.	Up to 20 characters	</BP>
RC_SERVER_REMOTE_BOOT	Specify remote boot media to use in the utility boot mode.	0: None 1: Remote FD 2: Network	0
RC_SERVER_RD_IMAGE_FILE	Specify FD image file to use for remote FD boot.	File name with path name	(Blank)
SERVER_CURRENT_PORT_TYPE	Specify the connection type between the DianaScope server and the managed server.	0: LAN 1: Direct 2: Modem	0

2.2.11 setServerProperty

Syntax:
`dscli setServerProperty` *`Server PropertyName Value`*

Description:
Sets the server property of a managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

`PropertyName`
Specify the name of the server property. The following is server property list:

PropertyName	Contents	Value	Default
CONSOLE_LOG_ENABLE	Determine whether to enable/disable the get console log function to save the Remote Console screen data in text format.	0: Disabled 1: Enabled	1
CONSOLE_LOG_SIZE	Specify the maximum size (in KB) of the console log.	4 - 1000	64
CONSOLE_LOG_KEEP_CONNECTION	Determine whether to get console log even while remote console is not open on web browser.	0: Disabled 1: Enabled	0
CONSOLE_LOG_FAULT_MESSAGE_MONITORING	Determine whether to enable/disable the fault message monitoring function that set fault condition when a fault message string is found on head of each console log line.	0: Disabled 1: Enabled	1
CONSOLE_LOG_FAULT_MESSAGE_IDENTIFIER	Specify the character string for the fault message monitoring function.	Up to 20 characters	</BP>
RC_SERVER_REMOTE_BOOT	Specify remote boot media to use in the utility boot mode.	0: None 1: Remote FD 2: Network	0
RC_SERVER_RD_IMAGE_FILE	Specify FD image file to use for remote FD boot.	File name with path name	(Blank)
SERVER_NAME *1	Specify the name of the managed server.	Up to 15 characters.	(None)
SERVER_COMMENT *1	Enter the comments of the managed server.	Up to 100 characters	(Blank)
SERVER_AUTHKEY *1	Specify the authentication key to communicate with BMC of the managed server.	Up to 16 characters	(None)
SERVER_CURRENT_PORT_TYPE	Specify the connection type between the DianaScope server and the managed server. Only LAN can be specified for the EM card.	0: LAN 1: Direct 2: Modem	0
SERVER_IP_1 *1	Specify IP address to communicate via LAN.	IP address format	0.0.0.0

PropertyName	Contents	Value	Default
SERVER_IP_2	Specify extra IP address to communicate via LAN.	IP address format	0.0.0.0
SERVER_CURRENT_IP *1	Specify current IP address to communicate via LAN.	IP address format	0.0.0.0
SERVER_SUBNETMASK_1 *1	Specify subnet mask of the IP address.	IP address format	255.255.255.0
SERVER_SUBNETMASK_2	Specify subnet mask of the extra IP address.	IP address format	255.255.255.0
SERVER_PHONE_NUMBER	Specify the phone number to communicate via modem.	Up to 19 characters	(Blank)

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

Value

Specify new value to be set.

IMPORTANT:

- In case that the managed server does not support a remote FD function, the managed server cannot boot from the remote FD even if "RC_SERVER_REMOTE_BOOT" is set for the remote FD boot. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function
- In case that the managed server does not support a force network-boot function which boots the server from network regardless of boot order, the managed server cannot boot from network even if "RC_SERVER_REMOTE_BOOT" is set for the network-boot. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.

TIPS:

- You can use changeServerGroup command to change group that the managed server belongs to. See 2.2.12 changeServerGroup.

2.2.12 changeServerGroup

Syntax:

`dscli changeServerGroup` *`Server OldGroupName NewGroupName`*

Description:

Changes the group that a managed server belongs to.

Options:

Server

Specify the name, the MAC address, or the GUID of the managed server.

OldGroupName

Specify the name of current group.

NewGroupName

Specify the name of new group.

2.2.13 getServerGroup

Syntax:
`dscli getServerGroup` *`Server`*

Description:
Display the name of group that a managed server belongs to.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Display the name of group that the managed server belongs to.

2.2.14 setCurrentPort

Syntax:
`dscli setCurrentPort` *`Server Connection`*

Description:
Changes the connection type between the DianaScope server and a managed server.
Only LAN can be specified for the EM card.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

`Connection`
Specify the connection type between the DianaScope server and the managed server.

LAN (or 0)	Connects via LAN
SERIAL (or 1)	Connects directly to serial port
MODEM (or 2)	Connects via modem

2.2.15 getServerProperty

Syntax:
`dscli getServerProperty` *`Server PropertyName`*

Description:
Displays the specified property of a managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server..

`PropertyName`
Specify the name of server property. For the list of server properties, see the 2.2.11 setServerProperty command.

Output:
Displays the specified property of a managed server.

2.2.16 getServerInfo

Syntax:
`dscli getServerInfo` *`Server`*

Description:
Displays the managed server information that includes main server properties.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays the managed server information. The following information is shown:

Item Name	Contents
Server Name	Name of the managed server
Comments	Comments of the managed server
Group	Name of the group that the managed server belongs to.
Connection Type	Connection type between the managed server and the DianaScope server.
Check Connection	Condition of Check connection for the managed server.
Current IP Address	Current IP address to connect to the managed server 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 IP address encounters an error.
LAN1 IP Address	IP address to connect to the managed server via LAN.
LAN1 Subnet Mask	Subnet mask of the IP address
LAN2 IP Address	Extra IP address to connect to the managed server via LAN.
LAN2 Subnet Mask	Subnet mask of the extra IP address
Phone Number	Phone number of the managed server
Product Name	Product name of the managed server
Serial Number	Serial number of the managed server
GUID	ID for identifying the managed server
IPMI Version	IPMI version that the managed server supports
Remote KVM and Media License	State of "Remote KVM and Media License" of the managed server. If this managed server does not contain EXPRESSSCOPE Engine, this item is not shown. See 2.1.15”getGroupRemoteKvmLicenseList” for details.
Chassis Name	Name of chassis in which the managed server is installed. This item is shown If the managed server is CPU blade or switch blade.
Slot Number	Slot number of the blade slot in which the managed server is installed. This item is shown If the managed server is CPU blade or switch blade.
Blade Width	Blade width with the occupied slot count. This item is shown If the managed server is CPU blade or switch blade.
Blade Height	Blade Height with the occupied slot count. This item is shown If the managed server is CPU blade or switch blade.
Blade Name	Blade name. This item is shown if the managed server has the name.

TIPS:
- DianaScope Manager Ver.1.06.04 and above supports Item Name “Remote KVM and Media License”.
- DianaScope Manager Ver.1.08.00 and above supports Item Name “Chassis Name”, “Slot Number”, “Blade Width”, “Blade Height”, “Blade Name”.

2.2.17 getDeviceId

Syntax:
`dscli getDeviceId` *`Server`*

Description:
Obtains management controller information of the managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

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
```

2.2.18 getGuid

Syntax:
`dscli getGuid` *`Server`*

Description:
Obtains GUID of a managed server. GUID is ID for identifying a managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays GUID.

2.2.19 getComputerName

Syntax:
`dscli getComputerName` *`Server`*

Description:
Obtains the computer name in BMC configuration of a managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays the computer name. The following shows an example.

```
Computer Name  : host1
```

2.2.20 getProductName

Syntax:
`dscli getProductName` *`Server`*

Description:
Obtains the product name and serial number of a managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays the product name and serial number of the managed server.

2.2.21 getSoftwareInfo

Syntax:
`dscli getSoftwareInfo` *`Server`*

Description:
Obtains version information about NEC DianaScope Agent, operating system, BIOS and LAN driver on the managed server.
This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays version information. The following shows an example.

```
Agent      Version : DianaScopeAgent-1.02.00
BIOS       Version : 6.0.0106
OS          Version : Windows 2000 Service Pack 3
LAN driver Version : 5.0.2175.1
```

2.2.22 changeShutdownPolicy

Syntax:
`dscli changeShutdownPolicy` *`Server KeyName Value`*

Description:
Changes shutdown policy of NEC DianaScope Agent on a managed server.
This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

`KeyName`
Specify a key name. See the list below..

`Value`
Specify a new value. See the list below.

KeyName	Contents	Value
SCH_ACLINK_STAYON_ENABLE	Determine whether to enable/disable the function that changes AC-LINK policy to ”Always Power On” when “OS shutdown” is executed through “scheduled running”	0: Disabled 1: Enabled
SCH_AC_LINK	Specify AC-LINK Policy. (This setting works like as setPowerrestoreDelay command.)	0: Stay OFF 1: Last State 2: Always Power ON
SCH_DC_OFF_ENABLE	Determine whether to enable/disable the function that turns the managed server off forcibly after shutdown OS. If the managed server is still DC-ON state after OS shutdown, set enable to turn it off when DianaScope shutdowns its OS.	0: Disabled 1: Enabled
SCH_DC_OFF_DELAY	Specify delay time in minutes to turn the managed server off after shutdown OS. This setting is effective only when SCH_DC_OFF_ENABLE is enabled.	5-60
SCH_SHUTDOWN_ENABLE	Determine whether to enable/disable the function which shutdowns OS when the managed server is turned on during the down period specified through “scheduled running”.	0: Disabled 1: Enabled
SCH_SHUTDOWN_WAIT	Specify delay time in seconds to shutdown the managed server after shutdown OS command is issued.	20-200

2.2.23 getShutdownPolicy

Syntax:
`dscli getShutdownPolicy` *`Server`*

Description:
Obtains shutdown policy of NEC DianaScope Agent on a managed server.
This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays shutdown policy. For details, see 2.2.22 changeShutdownPolicy

The following shows an example.

```
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
```

2.2.24 setPowerRestoreDelay

Syntax:
`dscli setPowerRestoreDelay` *`Server DelayTime [Policy]`*

Description:
Changes the power option that specifies working of a managed server 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 server is set to be turned DC ON in time with AC ON.

IMPORTANT:
- In case that the managed server does not support a setting of power restore delay, This command is invalid. See "NEC DianaScope Managed Servers Summary" whether the managed server supports the function.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

`DelayTime`
Specify delay time in the range 0-255 seconds. When -1 is specified, the delay time is not changed.

`Policy`
Sets AC-Link Policy. No change is made if omitted There are 3 types of the policy.

100	STAY_OFF. The managed server is DC OFF when it is turned AC ON.
101	LAST_STATE If the managed server is turned AC OFF during it is in DC OFF, the managed server is DC OFF when it is turned AC ON. If the managed server is turned AC OFF during it is in DC ON, the managed server is turned DC ON after the delay time when it is turned AC ON.
102	ALWAYS_POWER_ON The managed server is turned DC ON after the delay time when it is turned AC ON.

2.2.25 getPowerRestoreDelay

Syntax:
`dscli getPowerRestoreDelay` *`Server`*

Description:
Obtains power option that specifies working of a managed server when it is turned AC ON.
For details, see 2.2.24 setPowerRestoreDelay.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Display power option information. The following shows an example.

```
POLICY                       : LAST_STATE
Power Restore Delay          : 30 sec
Power Restore Delay(default) : 0 sec
```

2.2.26 changeBmcInfo

Syntax:
`dscli changeBmcInfo` *`Server KeyName Value`*

Description:
Changes BMC configuration information. This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.

TIPS:
- Use changeAuthKey command to change authentication key or password of PPP server. See 2.2.26 changeBmcInfo.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

`KeyName`
Specify the key name of BMC configuration. See the following list.

`Value`
Specify the new values to be set. See the following list.

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

KeyName	Contents	Value
CFG_LAN_IP_LAN1	LAN1: IP Address	IP address format
CFG_LAN_SUBNET_LAN1	LAN1: Subnet Mask	IP address format
CFG_LAN_GATEWAY_LAN1	LAN1: Default Gateway	IP address format
CFG_LAN_MANAGE1_ALERT_LAN1	LAN1: Alert Receiver/ management PC(1) Alert	0: Disabled 1: Enabled
CFG_LAN_MANAGE1_IP_LAN1	LAN1: Alert Receiver/ management PC(1) IP address	IP address format
CFG_LAN_MANAGE2_ALERT_LAN1	LAN1: Alert Receiver/ management PC(2) Alert	0: Disabled 1: Enabled
CFG_LAN_MANAGE2_IP_LAN1	LAN1: Alert Receiver/ management PC(2) IP address	IP address format
CFG_LAN_MANAGE3_ALERT_LAN1	LAN1: Alert Receiver/ management PC(3) Alert	0: Disabled 1: Enabled
CFG_LAN_MANAGE3_IP_LAN1	LAN1: Alert Receiver/ management PC(3) IP address	IP address format
CFG_LAN_ALERT_RETRY_COUNT_LAN1	LAN1: Alert Retry Count	0 - 7
CFG_LAN_ALERT_RETRY_TIMEOUT_LAN1	LAN1: Alert Timeout (in seconds)	3 - 30
CFG_DHCP_LAN2	LAN2: Obtain an IP Address automatically(DHCP)	0: Disabled 1: Enabled
CFG_LAN_IP_LAN2	LAN2: IP Address	IP address format
CFG_LAN_SUBNET_LAN2	LAN2: Subnet Mask	IP address format
CFG_LAN_GATEWAY_LAN2	LAN2: Default Gateway	IP address format
CFG_LAN_MANAGE1_ALERT_LAN2	LAN2: Alert Receiver/ management PC (1) Alert	0: Disabled 1: Enabled
CFG_LAN_MANAGE1_IP_LAN2	LAN2: Alert Receiver/ management PC (1) IP address	IP address format
CFG_LAN_MANAGE2_ALERT_LAN2	LAN2: Alert Receiver/ management PC (2) Alert	0: Disabled 1: Enabled
CFG_LAN_MANAGE2_IP_LAN2	LAN2: Alert Receiver/ management PC (2) IP address	IP address format
CFG_LAN_MANAGE3_ALERT_LAN2	LAN2: Alert Receiver/ management PC (3) Alert	0: Disabled 1: Enabled

KeyName	Contents	Value
CFG_LAN_MANAGE3_IP_LAN2	LAN2: Alert Receiver/ management PC (3) IP address	IP address format
CFG_LAN_ALERT_RETRY_COUNT_LAN2	LAN2: Alert Retry Count	0 – 7
CFG_LAN_ALERT_RETRY_TIMEOUT_LAN2	LAN2: Alert Timeout (in seconds)	3 – 30
CFG_SERIAL_MODE	WAN/Direct: Mode	1: Direct 2: Modem
CFG_SERIAL_BAUDRATE	WAN/Direct: Baud Rate	1: 9600bps 2: 19.2Kbps 3: 57.6Kbps 4: 115.2Kbps
CFG_SERIAL_FLOW_CONTROL	WAN/Direct Flow Control	1: None 2: RTS/CTS 3: XON/XOFF
CFG_SERIAL_DIAL_MODE	WAN/Direct Dial Mode	1: Pulse 2: Tone
CFG_SERIAL_INIT	WAN/Direct Initial Command	Up to 48 characters
CFG_SERIAL_HANG_UP	WAN/Direct Hang-up Command	Up to 8 characters
CFG_SERIAL_DTR_HANG_UP	WAN/Direct DTR Hang-up	0: Disabled 1: Enabled
CFG_SERIAL_ESCAPE_CODE	WAN/Direct Escape Code	1character
CFG_SERIAL_DIAL_RETRY_COUNT	WAN/Direct Dial retry count	0 – 7
CFG_SERIAL_DIAL_RETRY_INTERVAL	WAN/Direct Dial retry interval (in seconds)	3 – 30
CFG_SERIAL_ALERT_RETRY_COUNT	WAN/Direct Alert retry count	0 – 7
CFG_SERIAL_ALERT_RETRY_INTERVAL	WAN/Direct Alert timeout Interval (in seconds)	60 – 240
CFG_SERIAL_ALERT_PPP1	WAN/Direct Primary PPP server Alert	0: Disabled 1: Enabled
CFG_SERIAL_DIAL_NUMBER_PPP1	WAN/Direct Primary PPP server Phone Number	Up to 19 characters
CFG_SERIAL_USER_ID_PPP1	WAN/Direct Primary PPP server User ID	Up to 16 characters
CFG_SERIAL_DOMAIN_PPP1	WAN/Direct Primary PPP server Domain	Up to 16 characters
CFG_SERIAL_ALERT_PPP2	WAN/Direct Secondary PPP server Alert	0: Disabled 1: Enabled
CFG_SERIAL_DIAL_NUMBER_PPP2	WAN/Direct Secondary PPP server Phone Number	Up to 19 characters

KeyName	Contents	Value
CFG_SERIAL_USER_ID_PPP2	WAN/Direct Secondary PPP server User ID	Up to 16 characters
CFG_SERIAL_DOMAIN_PPP2	WAN/Direct Secondary PPP server Domain	Up to 16 characters
CFG_SERIAL_MANAGE1_IP	WAN/Direct Alert Receiver (1) IP address	IP address format
CFG_SERIAL_MANAGE2_IP	WAN/Direct Alert Receiver (2) IP address	IP address format
CFG_SERIAL_MANAGE3_IP	WAN/Direct Alert Receiver (3) IP address	IP address format
CFG_PAGER_MANAGE1_ALERT	Pager: Alert Receiver (1) Alert	0: Disabled 1: Enabled
CFG_PAGER_MANAGE1_DIAL_NUMBER	Pager: Alert Receiver (1) Phone Number	Up to 19 characters
CFG_PAGER_MANAGE2_ALERT	Pager: Alert Receiver (2) Alert	0: Disabled 1: Enabled
CFG_PAGER_MANAGE2_DIAL_NUMBER	Pager: Alert Receiver (2) Phone Number	Up to 19 characters
CFG_PAGER_MESSAGE	Pager: Pager message	Up to 29 characters
CFG_PAGER_TIMEOUT	Pager: Guide Message Waiting Time (in 2 seconds)	0-30

TIPS:

- DianaScope Manager Ver.1.70.00 and above, and DianaScope Agent Ver.2.03.05 and above support key “CFG_DHCP” for the managed server integrated EXPRESSSCOPE Engine.
- DianaScope Manager Ver.1.11.00 and above, and DianaScope Agent Ver.2.06.00 and above support key “CFG_DHCP” for the managed server installed Advanced Remote Management Card.
- DianaScope Manager Ver.1.11.00 and above, and DianaScope Agent Ver.2.06.00 and above support key “CFG_DHCP” and “CFG_DHCP_LAN2” for the managed server installed ft Remote Management Card.
- If you execute the command with the key name which DianaScope Agent does not support, the command succeed but the setting on the managed server is not changed.

2.2.27 getBmcInfo

Syntax:
`dscli getBmcInfo` *`Server`*

Description:
Obtains BMC configuration information of a specified managed server. This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.

Options:
`Server`

Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays BMC configuration information. See 2.2.26 changeBmcInfo for details.
The following shows an example.

```
CFG_COMPUTER_NAME=Server1
CFG_COMMUNITY=public
CFG_ALERT_ALL=1
CFG_POLICY=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
:
 :
```

2.2.28 changeAuthKey

Syntax:
`dscli changeAuthKey` *`Server OldPassword NewPassword SelectAuthKey`*

Description:
Changes the authentication key or PPP server's password of a BMC configuration. This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.

TIPS:
- After you succeed to change authentication key, you should change the authentication key registered on NEC DianaScope using setServerProperty command. See 2.2.11 setServerProperty.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

`OldPassword`
Specify current password.

`NewPassword`
Specify new password up to 16 characters.

`SelectAuthKey`
Specify a type of password.

0	Authentication key
1	Password of primary PPP server
2	Password of secondary PPP server

2.2.29 getAgentLog

Syntax:
`dscli getAgentLog` *`Server`*

Description:
Obtains the application logs of the NEC DianaScope Agent on a managed server. This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays the application logs of the NEC DianaScope Agent.

2.2.30 testAlert

Syntax:
`dscli testAlert` *`Server Target`*

Description:
Executes an alert test. This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.
You can confirm the result of test using 2.2.31 getTestAlertStatus command.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

`Target`
Specify an alert receiver.

0:	LAN1 alert receiver (1)
1:	LAN1 alert receiver (2)
2:	LAN1 alert receiver (3)
3:	LAN2 alert receiver (1)
4:	LAN2 alert receiver (2)
5:	LAN2 alert receiver (3)
6:	PPP1 alert receiver (1)
7:	PPP1 alert receiver (2)
8:	PPP1 alert receiver (3)
9:	PPP2 alert receiver (1)
10:	PPP2 alert receiver (2)
11:	PPP2 alert receiver (3)
12:	Pager alert receiver (1)
13:	Pager alert receiver (2)

2.2.31 getTestAlertStatus

Syntax:
`dscli getTestAlertStatus` *`Server Target`*

Description:
Obtains the state of an alert test. This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

`Target`
Specify an alert receiver.. See 2.2.30 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
```

2.2.32 getFaultCondition

Syntax:
`dscli getFaultCondition` *`Server`*

Description:
Displays the fault condition of a specified managed server.
When a server monitoring function or a fault message monitoring function detects fault condition of the managed server and sets the status.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays fault condition of the specified server group. There are three types of fault conditions.

NORMAL	Normal
WARNING	The following fault condition was detected in a managed server. - Power OFF - The STATUS lamp on or blinking. - A fault message is displayed on the console.
ERROR	Communication error. If the “Check Connection” is not completed, the fault condition is also set.

2.2.33 resetFaultCondition

Syntax:
`dscli resetFaultCondition` *`Server`*

Description:
Resets the fault condition of a managed server to NORMAL.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

2.2.34 getPowerStatus

Syntax:
`dscli getPowerStatus` *`Server`*

Description:
Obtains the power state of a specified managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays the power state of a specified managed server.. There are the following power states:
DC-ON
DC-OFF

2.2.35 getStatusLamp

Syntax:
`dscli getStatusLamp` *`Server [ModuleNo]`*

Description:
Obtains the state of a specified managed server STATUS lamp.

Options:
`Server`

Specify the name, the MAC address, or the GUID of the managed server.

`ModuleNo`

Specify the CPU/IO module number (0 or 1) if the managed server is ft Server. If you do not specify any number for ft Server, the command obtains the state of the current primary module.

TIPS:
- DianaScope Manager Ver.1.05.05 and above supports “ModuleNo” option.

Output:
Displays the state of a specified managed server STATUS lamp. There are the following states of the STATUS lamp

OFF
GREEN_ON
GREEN_BLINK
AMBER_ON
AMBER_BLINK
RED_ON
RED_BLINK

2.2.36 getPanelInfo

Syntax:
`dscli getPanelInfo` *`Server [ModuleNo]`*

Description:
Obtains the following state as the front panel information of a managed server: 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:
`Server`

Specify the name, the MAC address, or the GUID of the managed server.

`ModuleNo`

Specify the CPU/IO module number (0 or 1) if the managed server is ft Server. If you do not specify any number for ft Server, the command obtains the state of the current primary module.

TIPS:
- DianaScope Manager Ver.1.05.05 and above supports “ModuleNo” option.

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

```
Power Status       : S0_G0
STATUS Lamp         : GREEN_ON
LCD0               : Prepare To Boot
LCD1               :
Watchdog Status    : STARTED
Watchdog Use       : SMS_OS
Watchdog Interval  : 10 sec
POH                : 262920 min
:
```

2.2.37 powerOn

Syntax:
`dscli powerOn` *`Server ["f" FileName | "p" | "u"]`*

Description:
Turns on a specified managed server.
If the POWER switch needs to be pressed to recover the managed server from the sleep state, it can also be recovered by executing this command.

IMPORTANT:
- In case that the managed server does not support a remote FD function, a remote FD function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.
- In case that the managed server does not support a force network-boot function which boots the server from network regardless of boot order, a force network-boot function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

`"f"`
(Recommended)
Force boot from the specified FD image file after the power is turned on.

`FileName`
Specify the FD image file. If a pathname is omitted, a file in the current directory is specified.

`"p"`
(Recommended)
Force boot from network after the power is turned on.

`"u"`
If you specify "u" option, the managed server will boot up in utility boot mode after the power is turned on. This option is used to boot the maintenance partition or DOS applications.
If "1" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from the FD image file specified by RC_SERVER_RD_IMAGE_FILE of the server properties.
If "2" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from network.

TIPS:
- DianaScope Manager Ver.1.03.04 and above supports "f", "p" options.
- You can create the FD image file on web browser interface of the NEC DianaScope. Log in the NEC DianaScope and click the "Tools" on the header menu.
- See 2.2.11 setServerProperty for server properties.

2.2.38 powerOff

Syntax:
`dscli powerOff` *`Server`*

Description:
Forcibly turns off a specified managed server.

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

CHECK:
- This command is not available for ft Server. Use 2.2.55 ftPowerOff for ft Server in an emergency.

Options:
`Server`

Specify the name, the MAC address, or the GUID of the managed server.

2.2.39 reset

Syntax:
`dscli reset Server ["f" FileName | "p" | "u"]`

Description:
Forcibly resets a specified managed server.

IMPORTANT:
- Since remote power control using NEC DianaScope is provided by hardware regardless of the condition of operating system on the managed server, the system may be damaged. Be careful when you perform remote power control. Reconfirm the status of the managed server before power controls.
- In case that the managed server does not support a remote FD function, a remote FD function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.
- In case that the managed server does not support a force network-boot function which boots the server from network regardless of boot order, a force network-boot function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.

CHECK:
- This command is not available for ft Server.

Options:
Server

Specify the name, the MAC address, or the GUID of the managed server.

"f"

(Recommended)
Force boot from the specified FD image file after reset.

FileName

Specify the FD image file. If a pathname is omitted, a file in the current directory is specified.

"p"

(Recommended)
Force boot from network after reset.

"u"

If you specify "u" option, the managed server will boot up in utility boot mode after reset. This option is used to boot the maintenance partition or DOS applications.
If "1" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from the FD image file specified by RC_SERVER_RD_IMAGE_FILE of the server properties.
If "2" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from network.

TIPS:
- DianaScope Manager Ver.1.03.04 and above supports "f", "p" options.
- You can create the FD image file on web browser interface of the NEC DianaScope. Log in the NEC DianaScope and click the "Tools" on the header menu.
- See 2.2.11 setServerProperty for server properties.

2.2.40 powerCycle

Syntax:
`dscli powerCycle Server ["f" FileName | "p" | "u"]`

Description:
Forcibly turns off a specified managed server and then turns it on.

IMPORTANT:
- Since remote power control using NEC DianaScope is provided by hardware regardless of the condition of operating system on the managed server, the system may be damaged. Be careful when you perform remote power control. Reconfirm the status of the managed server before power controls.
- In case that the managed server does not support a remote FD function, a remote FD function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.
- In case that the managed server does not support a force network-boot function which boots the server from network regardless of boot order, a force network-boot function cannot be executed. See "NEC DianaScope Managed Servers Summary" whether the managed server supports function.

CHECK:
- This command is not available for ft Server. Use 2.2.56 ftPowerCycle for the ft Server in an emergency.

Options:

Server

Specify the name, the MAC address or the GUID of the managed server.

"f"

(Recommended)
Force boot from the specified FD image file after the power is turned on.

FileName

Specify the FD image file. If a pathname is omitted, a file in the current directory is specified.

"p"

(Recommended)
Force boot from network after the power is turned on.

"u"

If you specify "u" option, the managed server will boot up in utility boot mode after the power is turned on. This option is used to boot the maintenance partition or DOS applications.
If "1" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from the FD image file specified by RC_SERVER_RD_IMAGE_FILE of the server properties.
If "2" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from network.

TIPS:
- DianaScope Manager Ver.1.03.04 and above supports "f", "p" options.
- You can create the FD image file on web browser interface of the NEC DianaScope. Log in the NEC DianaScope and click the "Tools" on the header menu.
- See 2.2.11 setServerProperty for server properties.

2.2.41 shutdownOs

Syntax:
`dscli shutdownOs` *`Server ["force"]`*

Description:
Shut downs the operating system on a managed server.
This command via LAN instructs the NEC DianaScope Agent 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 DianaScope Agent or the NEC ESMPRO Agent.

Options:
`Server`

Specify the name, the MAC address, or the GUID of the managed server.

`"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.

2.2.42 dumpSwitch

Syntax:
`dscli dumpSwitch` *`Server`*

Description:
Pushes DUMP switch on a managed server.

IMPORTANT:

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

Options:
`Server`

Specify the name, the MAC address or the GUID of the managed server.

2.2.43 clearSel

Syntax:
`dscli clearSel` *`Server ["force"]`*

Description:
Clears the System Event Log (SEL) area on a managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server..

`"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 server.

2.2.44 identifyChassis

Syntax:
`dscli identifyChassis` *`Server Period ["Blink"]`*

Description:
Turns on the Unit ID lamp on a managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server..

`Period`
Specify lamp-on period in seconds. You can specify 0 – 255.
You can specify 0 – 3600 if you specify "blink" option.

`"Blink"`
If you specify "blink" option, this command blinks the Unit ID lamp on the managed server. Method of lighting the Unit ID lamp depends on the type of the managed server, but DianaScope Manager always indicates blinking operation when "blink" option is specified.
When the "blink" option is not specified, the command ends immediately, but when the "blink" option is specified, the command ends after the time indicated in period option passes.

TIPS:
- If "blink" option is not specified, re-executing the command with that period option is specified 0 turns off the Unit ID lamp.

2.2.45 getIpmiInfo

Syntax:
`dscli getIpmiInfo *Server ReadType FileName*`

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 DianaScope holds the previously read-in information, the information is also saved in the file.

TIPS:
- You can display the IPMI information file on web browser interface of the NEC DianaScope. Log in the NEC DianaScope and click the "Tools" on the header menu.

Options:
Server
Specify the name, the MAC address, or the GUID of the managed server.

ReadType
Specify the type of information to be read in. The following information can be read in

SEL	System Event Log
SDR	Sensor Data Information
FRU	Field Replaceable Unit
MC	Management Controller Information
ALL	All Information included SEL, SDR, FRU and MC

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

2.2.46 getSensorList

Syntax:
`dscli getSensorList *Server*`

Description:
Creates a sensor list from the previously collected SDR of IPMI information through 2.2.45 getIpmiInfo command and displays the list. The SDR record ID indicating each sensor is also displayed.

Options:
Server
Specify the name, the MAC address, or the GUID of the managed server.

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
:
```

2.2.47 getSensorStatus

Syntax:
`dscli getSensorStatus` *`Server RecordId`*

Description:
Obtains the status of specified sensor on the managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

`RecordId`
Specify the SDR record ID from the sensor list displayed by 2.2.46 getSensorList command.

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:
  ---
```

2.2.48 getConsoleLog

Syntax:
`dscli getConsoleLog` *`Server`*

Description:
Displays the console log of a specified server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays the console log of a specified server.

2.2.49 changeBmcIpSync

Syntax:
`dscli changeBmcIpSync` *`Server Value`*

Description:
Changes BMC IP Address Synchronization of NEC DianaScope Agent on a managed server.
BMC IP Address Synchronization means the function that the DianaScope Agent corrects the IP address in the BMC configuration information periodically to the IP address set on the operating system if the managed server contains the BMC that use standard LAN port.
This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

`Value`
Specify a new value.

0	Disable
1	Enable

TIPS:
- DianaScope Manager Ver.1.03.00 and above supports this command.
- DianaScope Agent Ver.1.09 and above supports this command. If this command is sent to DianaScope Agent Ver.1.08 and above, the command ends successfully, but the setting is not changed.
- If this command is sent to DianaScope Agent on the managed server that contains the BMC that uses an exclusive LAN port (Management LAN Port), the command end successfully, but nothing is set.

2.2.50 getBmcIpSync

Syntax:
`dscli getBmcIpSync` *`Server`*

Description:
Obtains BMC IP Address Synchronization of NEC DianaScope Agent on a managed server.
BMC IP Address Synchronization means the function that the DianaScope Agent corrects the IP address in the BMC configuration information periodically to the IP address set on the operating system if the managed server contains the BMC that use standard LAN port.
This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server..

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

```
Agent Config (BMC IP Sync) : Enable
```

TIPS:
- DianaScope Manager Ver.1.03.00 and above supports this command.

2.2.51 getBladeSlotId

Syntax:
`dscli getBladeSlotId Server`

Description:
Obtains enclosure ID and slot ID of a managed server 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:
Server

Specify the name, the MAC address, or the GUID of the managed server..

Output:
The following shows an example.

```
Enclosure ID: 0040000000
Slot ID:      2
```

TIPS:

- DianaScope Manager Ver.1.03.04 and above supports this command.

2.2.52 changeBmcIpAddressLan1

Syntax:
`dscli changeBmcIpAddressLan1 Server IpAddress ["force"]`

Description:
Changes the LAN1 IP address for BMC on the managed server.

Options:
Server
Specify the name, the MAC address, or the GUID of the managed server.

IpAddress
Specify the IP address.

"force"
If the managed server contains BMC that uses a standard LAN port, specify "force" option to change IP address for BMC while the operating system is running.

TIPS:
- DianaScope Manager Ver.1.03.05 and above supports this command.

2.2.53 changeBmcIpAddressLan2

Syntax:
`dscli changeBmcIpAddressLan2 Server IpAddress ["force"]`

Description:
Changes the LAN2 IP address for BMC on the managed server.

Options:
Server
Specify the name, the MAC address, or the GUID of the managed server.

IpAddress
Specify the IP address.

"force"
If you specify "force" option, this command changes the IP address even while an OS is running.

TIPS:
- DianaScope Manager Ver.1.03.05 and above supports this command.

2.2.54 getFtSatusLamp

Syntax:
`dscli getFtStatusLamp` *`Server`*

Description:
Obtains the state of FT STATUS lamp if the managed server is ft Server.
This command can be used via LAN when NEC DianaScope Agent service is running on the managed server.

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

Output:
Displays the state of a specified managed server FT STATUS lamp. There are the following states of the FT STATUS lamp.

OFF
GREEN_ON
AMBER_ON
AMBER_BLINK

TIPS:
- DianaScope Manager Ver.1.05.05 and above supports this command.

2.2.55 ftPowerOff

Syntax:
`dscli ftPowerOff` *`Server`*

Description:
Forcibly turns off a specified ft Server.

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

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

TIPS:
- DianaScope Manager Ver.1.05.05 and above supports this command.

2.2.56 ftPowerCycle

Syntax:
`dscli ftPowerCycle Server ["p" | "u"]`

Description:
Forcibly turns off a specified ft Server and then turns it on.

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

Options:
Server

Specify the name, the MAC address, or the GUID of the managed server.

"p"

(Recommended)
Force boot from network after the power is turned on.

"u"

If you specify "u" option, the managed server will boot up in utility boot mode after the power is turned on. This option is used to boot the maintenance partition or DOS applications.
If "1" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from the FD image file specified by RC_SERVER_RD_IMAGE_FILE of the server properties.
If "2" is specified for RC_SERVER_REMOTE_BOOT of the server properties, the server boots from network.

TIPS:
- See 2.2.11 setServerProperty for server properties.
- DianaScope Manager Ver.1.05.05 and above supports this command.

2.3 EM Card Management Commands

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

2.3.1 getEmCardList

Syntax:
`dscli getEmCardList` *`["d"]`*

Description:
Displays the name list of all EM cards registered on DianaScope.

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:

```
EM0001
EM0002
```

If "d" option is specified:

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

TIPS:

- DianaScope Manager Ver.1.08.00 and above supports this command.

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
Standby

TIPS:
- DianaScope Manager Ver.1.08.00 and above supports this command.

2.3.3 identifyEm

Syntax:
`dscli identifyEm E`*`mCard [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.

`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.

TIPS:
- DianaScope Manager Ver.1.08.00 and above supports this command.

2.3.4 getEmStatusLamp

Syntax:
`dscli getEmStatusLamp E`*`mCard [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.

`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
GREEN_BLINK
AMBER_BLINK
RED_BLINK

TIPS:
- DianaScope Manager Ver.1.08.00 and above supports this command.

2.4 Chassis Management Commands

2.4.1 getBladeEnclosureList

Syntax:
```
dscli getBladeEnclosureList
```

Description:
Displays the list of the blade enclosure in which the managed server or the EM card registered on DianaScope is installed.

TIPS:
- DianaScope Manager Ver.1.08.00 and above supports this command.

Output:
Displays the list of the blade enclosure with the server or the EM card registered on DianaScope.

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.

Options:
ChassisName
Specify the chassis name.

Output:
Following information is shown for each slot.

Contents	Explanation	
slot number	Displays the slot number. Displays two slot numbers when the installed blade has double width.	
slot state	server name	Displays the server name when the server is installed in the slot and it is registered on DianaScope. For double width, displays “(double width)” following the server name.
	Installed	Displays “Installed” when the switch module is installed in the slot.
	Not registered	Displays “Not registered” when the server is installed in the slot and it is not registered on DianaScope.
	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 width)
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 instaleld
6: Not installed
```

TIPS:

- DianaScope Manager Ver.1.08.00 and above supports this command.

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.

TIPS:

- DianaScope Manager Ver.1.08.00 and above supports this command.

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.
`Value`
Specify a new value to be set.

PropertyName	Contents	Value
CHASSIS_NAME	Specify the name of the chassis.	Up to 15 characters.
CHASSIS COMMENT	Enter the comments of the chassis.	Up to 100 characters.

TIPS:
- DianaScope Manager Ver.1.08.00 and above supports this command.

2.4.5 getChassisProperty

Syntax:
`dscli setChassisProperty` *`ChassisName PropertyName`*

Description:
Displays the specified property of the 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.

TIPS:
- DianaScope Manager Ver.1.08.00 and above supports this command.

2.4.6 setBladeAutoSetting

Syntax:
`dscli setChassisProperty` *`ChassisName SlotNumber PropertyName Value`*

Description:
This command is effective only to the chassis in which EM card can be installed.
If DianaScope detects new CPU blade installed on the chassis, DianaScope configures BMC on the CPU blade (managed server) through the EM card to control the managed server remotely.
Set information to perform the configuration of BMC on CPU blade and the server 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.
`Value`
Specify a new value to be set.

PropertyName	Contents	Value
GROUP_NAME	Specify the name of group.	
AUTH_KEY	Specify the authentication key that is configured on BMC.	Up to 16 characters
SERVER_NAME	Specify the server name to manage CPU blade. The server name when “ALL” is specified becomes “Server name + slot number”.	Up to 15 characters. Up to 10 characters when you specify “ALL” for SlotNumber option.
RECONFIGURE_ BMC	“Enabled" means that DianaScope executes BMC configuration not only new installed CPU blade but also all CPU blade. “Disabled” means that DianaScope executes BMC configuration only if BMC on new installed CPU blade has not been configured.	0: Disabled 1: Enabled
REWRITE_IP_ADDRESS	IP address of the BMC on the CPU blade may be obtained by DHCP even through the BMC configuration has not been executed.	0: Disabled 1: Enabled
DHCP	BMC automatically acquires IP address.	0: Disabled 1: Enabled
IP_ADDRESS	Specify IP address set to CPU blade. When you specify “ALL” for “SlotNumber” option, IP address consecutive from specified IP address is sequentially set from the first slot.	IP Address form
SUBNET_MASK	Specify the subnet mask.	IP Address form
DEFAULT_GATEWAY	Specify the default gateway.	IP Address form
ALERT_RECEIVER_IP_ADDRESS	Specify the alert receiver(1)/IP address of PC for management.	IP Address form

TIPS:
- DianaScope Manager Ver.1.08.00 and above supports this command.

2.4.7 getBladeAutoSetting

Syntax:
`dscli setChassisProperty` *`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 server registration automatically when DianaScope detects new CPU blade installed on the chassis.

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.

Output:
The following shows an example.

```
GROUP_NAME:Chassis0001
SERVER_NAME:SERVER_0001
RECONFIGURE_BMC:Disable
REWRITE_IP_ADDRESS:Diasable
DHCP:Enable
ALERT_RECEIVER_IP_ADDRESS:192.168.14.18
```

TIPS:
- DianaScope Manager Ver.1.08.00 and above supports this command.

2.5 Communication Management Commands

2.5.1 connect

Syntax:
`dscli connect` *`Server`*

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

Options:
`Server`
Specify the name, the MAC address, or the GUID of the managed server.

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
CONNECTED
DISCONNECTING
DISCONNECTED
CONNECTION_FAILURE
NO_CARRIER
BUSY
NO_DIALTONE

2.6 Environment Setting Commands

2.6.1 setOption

Syntax:
`dscli setOption` *`OptionName Value`*

Description:
Sets an option of the NEC DianaScope Manager.

Options:
`OptionName`

Specify a name of the NEC DianaScope option. See the following list.

OptionName	Contents	Value	Default
BMC_RETRY_COUNT	Specify Retry count for communicating to BMC on a managed server.	0-10	5
BMC_TIMEOUT	Communication Timeout (in seconds) to BMC on a managed server.	1-15	5
BMC_SOURCE_PORT	Specify a port number for communicating to BMC on a managed server.	1025-65535	47117
CUI_NO_RESPONSE_TIMEOUT	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_OF_RECORDS	Specify maximum number of history logs.	2000-10000	2000
MODEM_PORT_NUMBER	Specify a serial port on DianaScope server. The serial port is used for communicating to the managed server via modem or with direct connection.	1-8	1
MONITORING_ENABLE	Determine whether to enable/disable the server monitoring function that monitors the power status and the STATUS lamp on each managed server.	0: Disabled 1: Enabled	1
MONITORING_AUTO_UPDATE_ENABLE	Determine whether to enable/disable the function updates automatically the displays of server status on web browser interface.	0: Disabled 1: Enabled	1
MONITORING_AUTO_UPDATE_INTERVAL	Specify interval times (in seconds) to update automatically the displays of server status.	1-60	5
RC_POWER_CONTROL_INTERVAL_MILLIS	Specify interval times (in milliseconds) at which power control is performed continuously for multiple servers.	0-5000	500
RMI_PORT	Specify a port number for RMI.	1024 - 65535	1099

TIPS:
- DianaScope Manager Ver.1.05.00 and above supports OptionName “RMI_PORT”.
- DianaScope Manager Ver.1.06.04 and above supports OptionName “CUI_SYS_RQ_KEY”.

Value
Specify new value to be set.

2.6.2 getOption

Syntax:
`dscli getOption` *`OptionName`*

Description:
Displays an option of the NEC DianaScope Manager.

Options:
OptionName
Specify a name of the NEC DianaScope option. See 2.6.1 setOption.

Output:
Display the value of the specified option.

2.6.3 getPermitIpAddrList

Syntax:
`dscli getPermitIpAddrList`

Description:
Displays the IP address ranges in which login from a Web client are to be permitted.

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 isPermitIpAddr

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.

OK	means this IP address is permitted
NG	means this IP address is not permitted.

2.6.5 addPermitIpAddr

Syntax:
`dscli addPermitIpAddr` *`StartIpAddr [EndIpAddr]`*

Description:
Adds an IP address range in which login from a Web client is to be permitted.

TIPS:
- You can login to NEC DianaScope from a web browser on DianaScope server that NEC DianaScope Manager is installed even if the IP address is not permitted using this command.

Options:
`StartIpAddr`
Specify the start address of IP address range.

`EndIpAddr`
Specify the end 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 to be permitted.

Options:
`StartIpAddr`
Specify the start address of IP address range.

`EndIpAddr`
Specify the end 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 to be 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 DianaScope 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.

2.7.2 removeUser

Syntax:
`dscli removeUser` *`UserName`*

Description:
Removes a user that can login to the NEC DianaScope 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` *`PropertyName Value`*

Description:
Sets a property of a specified user.

Options:
`UserName`
Specify a user name.

`PropertyName`
Specify a property name. See the following list.
It is valid about "Operator" level user to specify the enable/disable of each function

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

`Value`
Specify new value to be set.

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 server name, IP address of the managed server and event.

2.8.2 addLicenseKey

Syntax:
`dscli addLicenseKey LicenseKey`

Description:
Registers a server license key for the number of managed servers. One server license is required for each server to be managed remotely by using DianaScope.

Options:
LicenseKey
Specify a license key.

2.8.3 about

Syntax:
`dscli about`

Description:
Displays version information of NEC DianaScope Manager.

Output:
Displays version information of NEC DianaScope Manager.

2.8.4 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.

Revision History

1.00	2004/07/11	Initial edition.
1.01	2004/08/27	Corrects writing error about example. Modifies the description of checkConnection command.
1.02	2004/11/30	Adds “d” option about getServerList command. Adds “blink” option about identifyChassis command. Adds commands below. changeBmcIpSync, getBmcIpSync Corrects writing errors.
1.03	2004/12/07	Corrects writing errors.
1.04	2004/12/22	Corrects writing errors.
1.05	2005/01/18	Corrects writing errors.
1.06	2005/01/31	Adds”f” and ”p” options about the commands below. groupPowerOn, groupReset, groupPowerCycle powerOn, reset, powerCycle Adds getBladeSlotId command. Changes values for RC_SERVER_REMOTE_BOOT of server properties. Adds possible values of setOption command. Corrects writing errors.
1.07	2005/03/09	Adds commands below. changeBmcIpAddressLan1, changeBmcIpAddressLan2 getServerNameByMacAddr, getServerNameByGuid Corrects writing errors.
1.08	2005/04/18	Modifies descriptions of getServerList, changeBmcIpSync, getBmcIpSync and changeBmcIpAddressLan1 command.
1.10	2005/11/10	Adds a new option name for setOption command. Corrects writing errors.
1.11	2005/12/26	Adds commands below. getFtStatusLamp, ftPowerOff, ftPowerCycle Adds a new option for getStatusLamp and getPanelInfo commands.
1.12	2006/05/01	Adds getGroupRemoteKvmLicenseList command. Adds a new option name for setOption command.
1.13	2006/06/12	Corrects writing errors.
1.14	2006/06/28	Adds a new KeyName for changeBmcInfo command.(CFG_DHCP)
1.15	2006/09/27	Adds EM Card management commands and Chassis management commands. Modifies GetGroupRemoteKvmLicenseLisr and GetServerInfo command. Corrects writing errors.
1.16	2006/11/10	Adds URL of the DianaScope information.
1.17	2007/03/28	Adds a new KeyName for changeBmcInfo command.(CFG_DHCP_LAN2). Adds “force” option for shutdownOs and groupShutdownOs command.