Chapter 1  About Command Line Interface

Chapter 2  Command Summary
Contents

Chapter 1  About Command Line Interface .................................................................................................................................................................................................................. 6
  1.1  System Requirements .................................................................................................................................................................................................................. 7
  1.2  How to Execute Commands ........................................................................................................................................................................................................ 8
    1.2.1  Notes on Entering Commands ................................................................................................................................................................................................ 8
  1.3  Execution Results ............................................................................................................................................................................................................. 9
  1.4  Example ......................................................................................................................................................................................................................... 9
  1.5  Executing Command from Two or More NEC ESM PRO Manager .......................................................................................................................................................................................... 9

Chapter 2  Command Summary .............................................................................................................................................................................................. 10
  2.1  Group management Commands .................................................................................................................................................................................................. 10
    2.1.1  getList ................................................................................................................................................................................................................. 10
    2.1.2  createGroup ...................................................................................................................................................................................................... 12
    2.1.3  deleteGroup ...................................................................................................................................................................................................... 12
    2.1.4  moveGroup ...................................................................................................................................................................................................... 12
    2.1.5  setGroupProperty .................................................................................................................................................................................................. 13
    2.1.6  getGroupProperty .................................................................................................................................................................................................. 13
    2.1.7  getGroupStatus ...................................................................................................................................................................................................... 14
    2.1.8  groupPowerOn ....................................................................................................................................................................................................... 15
    2.1.9  groupPowerOff ..................................................................................................................................................................................................... 16
    2.1.10  groupReset ......................................................................................................................................................................................................... 17
    2.1.11  groupPowerCycle .................................................................................................................................................................................................. 18
    2.1.12  groupShutdownOs .............................................................................................................................................................................................. 19
    2.1.13  groupSetPowerRestoreDelay .................................................................................................................................................................................. 20
    2.1.14  groupGetRemoteKvmLicense ................................................................................................................................................................................... 21
  2.2  Component Management Commands .................................................................................................................................................................................. 22
    2.2.1  getServerList ....................................................................................................................................................................................................... 22
    2.2.2  getServerNameByMacAddr ............................................................................................................................................................................................ 23
    2.2.3  getServerNameByGuid ............................................................................................................................................................................................ 23
    2.2.4  findNewServer .................................................................................................................................................................................................. 24
    2.2.5  findNewServerNetAddr .......................................................................................................................................................................................... 25
    2.2.6  createServer ....................................................................................................................................................................................................... 25
    2.2.7  deleteServer ....................................................................................................................................................................................................... 26
    2.2.8  checkConnection .................................................................................................................................................................................................... 26
    2.2.9  setServerProperty .............................................................................................................................................................................................. 27
    2.2.10  moveServer ....................................................................................................................................................................................................... 28
    2.2.11  getServerGroup .................................................................................................................................................................................................. 29
    2.2.12  setCurrentPort ...................................................................................................................................................................................................... 29
    2.2.13  getServerProperty .................................................................................................................................................................................................. 30
    2.2.14  getServerInfo ....................................................................................................................................................................................................... 30
    2.2.15  getDeviceId ....................................................................................................................................................................................................... 32
    2.2.16  getGuid ............................................................................................................................................................................................................. 32
    2.2.17  getProductName .................................................................................................................................................................................................. 33
    2.2.18  getSoftwareInfo .................................................................................................................................................................................................. 33
    2.2.19  setShutdownPolicy .................................................................................................................................................................................................. 34
    2.2.20  getShutdownPolicy .................................................................................................................................................................................................. 35
    2.2.21  setPowerRestoreDelay ............................................................................................................................................................................................ 36
    2.2.22  getPowerRestoreDelay ............................................................................................................................................................................................ 37
    2.2.23  setBmcInfo ....................................................................................................................................................................................................... 37
    2.2.24  getBmcInfo ....................................................................................................................................................................................................... 46
    2.2.25  setAuthKey ....................................................................................................................................................................................................... 47
2.2.26 setSensorLevel........................................................................................................................................47
2.2.27 getSensorLevel......................................................................................................................................52
2.2.28 getAgentExtensionLog..........................................................................................................................53
2.2.29 testAlert................................................................................................................................................54
2.2.30 getTestAlertStatus.................................................................................................................................55
2.2.31 getServerStatus....................................................................................................................................55
2.2.32 getStatusLamp.......................................................................................................................................56
2.2.33 getPowerStatus.....................................................................................................................................56
2.2.34 getPanellInfo.........................................................................................................................................57
2.2.35 powerOn ................................................................................................................................................58
2.2.36 powerOff ...............................................................................................................................................58
2.2.37 reset.......................................................................................................................................................59
2.2.38 powerCycle..........................................................................................................................................60
2.2.39 shutdownOs.........................................................................................................................................60
2.2.40 dumpSwitch.........................................................................................................................................61
2.2.41 clearSel................................................................................................................................................61
2.2.42 identifyChassis....................................................................................................................................62
2.2.43 getlpmiInfo..........................................................................................................................................62
2.2.44 getSensorList.......................................................................................................................................63
2.2.45 getSensorStatus...................................................................................................................................63
2.2.46 getConsoleLog.....................................................................................................................................64
2.2.47 setBmcIpSync......................................................................................................................................65
2.2.48 getBmcIpSync.....................................................................................................................................65
2.2.49 getBladeSlotId.....................................................................................................................................66
2.2.50 deleteBmcUser.....................................................................................................................................66
2.2.51 getBmcUserList...................................................................................................................................67
2.2.52 setBmcUserlnfo....................................................................................................................................68
2.2.53 getBmcUserlnfo....................................................................................................................................68
2.2.54 setPowerRestorePolicy..........................................................................................................................69
2.2.55 getPowerRestorePolicy.........................................................................................................................69
2.2.56 getSystemFlLamp..................................................................................................................................70

2.3 EM Card Management Commands ...........................................................................................................71
2.3.1 getEmCardList.......................................................................................................................................71
2.3.2 getEmActiveState...................................................................................................................................72
2.3.3 identify Em...........................................................................................................................................72
2.3.4 getEmStatusLamp.................................................................................................................................73

2.4 Chassis Management Commands ............................................................................................................74
2.4.1 getBladeEnclosureList..........................................................................................................................74
2.4.2 getChassisSlotState...............................................................................................................................74
2.4.3 getChassisInfo.....................................................................................................................................75
2.4.4 setChassisProperty...............................................................................................................................76
2.4.5 getChassisProperty...............................................................................................................................76
2.4.6 setBladeAutoSetting.............................................................................................................................77
2.4.7 getBladeAutoSetting..............................................................................................................................78

2.5 Communication Management Commands ................................................................................................79
2.5.1 connect..................................................................................................................................................79
2.5.2 disconnect.............................................................................................................................................79
2.5.3 getConnectionStatus...............................................................................................................................79

2.6 Environment Setting Commands .............................................................................................................80
2.6.1 setOption...............................................................................................................................................80
2.6.2 getOption...............................................................................................................................................81
2.6.3 getPermitIpAddrList...............................................................................................................................81
2.6.4 isPermitIpAddr......................................................................................................................................82
2.6.5 addPermitIpAddr...................................................................................................................................82
2.6.6 removePermitIpAddr...............................................................................................................................82
2.6.7 clearPermitIpAddr.............................................................................................................................. 83

2.7 User Management Commands ........................................................................................................... 84
  2.7.1 createUser ........................................................................................................................................ 84
  2.7.2 deleteUser ...................................................................................................................................... 84
  2.7.3 getUserList .................................................................................................................................... 84
  2.7.4 setUserProperty ............................................................................................................................. 85
  2.7.5 getUserProperty ............................................................................................................................. 86

2.8 Other Commands ..................................................................................................................................... 87
  2.8.1 getApplicationLog .......................................................................................................................... 87
  2.8.2 about ............................................................................................................................................. 87
  2.8.3 help .............................................................................................................................................. 87

Appendix A. List of Support Commands for BMC (Other) or iLO component .............................................. 88
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About This Document

This document introduces command line interface of the component management utility "NEC ESM PRO Manager".
Before attempting to operate the command line interface, read this document so as to gain an adequate understanding of the contents.

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

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

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About Symbols in This Document
The following explains three symbols that are used in this document:

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

About Font in This Document
The *Italic* font shows the option of command in this document.

For other information about the NEC ESM PRO Manager
See the documents below.

- NEC ESM PRO Manager Ver.6 Installation Guide (Windows)
- NEC ESM PRO Manager Ver.6 Installation Guide (Linux)
- NEC ESM PRO Manager Ver.6 Setup Guide
- NEC ESM PRO Manager Ver.6 Command Line Interface User’s Guide for NEC ExpressUpdate
Chapter 1 About Command Line Interface

The NEC ESMPRO Manager command line interface provides a set of commands that can control managed components through the command line from the management PC. The set of commands covers a part of functions that can be executed by using the web browser.

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

The following commands are available:

- **Group management Commands**
  Use to operate a group due to operate more than one managed components through a single operation.

- **Component Management Commands**
  Use to operate a managed component.

- **EM Card Management Commands**
  Use to operate an EM card.

- **Chassis Management Commands**
  Use to operate a chassis.

- **Communication Management Commands**
  Use to change settings for connection to a managed component via modem or directly.

- **Environment Setting Commands**
  Use to view and change the settings of NEC ESMPRO Manager.

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

- **Other Commands**
1.1 System Requirements

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

The NEC ESM PRO Manager command line interface requires following user level of operating system:

- On Windows: Administrator
- On Linux: root

CHECK:
- In case of Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012 and Windows Server 2012 R2, you need to set the permission to access to the directory including Command Line Interface execution file (dscli.exe). After setting the permission to access the directory, the standard user can also use Command Line Interface.

TIP:
- See “NEC ESM PRO Manager Ver.6 Installation Guide” about the system requirement of NEC ESM PRO Manager.
1.2 How to Execute Commands

To execute a command, enter the command following the command prompt as shown below:

```
dscli CommandName [Option, ...]
```

- **dscli**: Indicates the NEC ESM PRO Manager command line interface command
- **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:

   **Example 1**: Input null string
   ```
dscli setGroupProperty MyGroup GROUP_COMMENT ""
```

   **Example 2**: Input special characters
   ```
dscli setServerProperty MyServer CFG_SERIAL_INIT "ATE1Q0V1X4&D2&C1S0=0"
```

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

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

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

   ```
dscli getServerProperty 80c03228:35d8:d711:8001:003013f10072 SERVER_IP_1
```

**CHECK:**
- You can enter the command format that MAC address or GUID is specified as Server option after the “Check Connection” is performed for the server.
1.3 Execution Results
All the commands return the end status. If an error has occurred, they return an error message. The end status of all the commands is as follows:

<table>
<thead>
<tr>
<th>End Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Normal end</td>
</tr>
<tr>
<td>Non Zero value</td>
<td>Error end</td>
</tr>
</tbody>
</table>

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

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

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

(1) Creates a new component group using createGroup command.

(2) Register a managed component using createServer command.

(3) Perform a "Check Connection" for the managed component using checkConnection command.

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

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

**IMPORTANT:**
- See “NEC ESMPRO Manager Ver.6 Installation Guide” about Notes.
2.1 Group management Commands

2.1.1 getList

Syntax:
dscli getList GroupName [/g] [/x]

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

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

/g
   Display only groups.

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

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

```
root
   ├── group1 <GROUP>
   │    ├── group11 <GROUP>
   │    │    └── component111
   │    └── component11
   ├── group2 <GROUP>
   │    └── component1
   └── group3 <GROUP>
      ├── group31 <GROUP>
      │    └── component311
      └── group32 <GROUP>
         └── component321
            └── component322
      └── component2
      └── component3
```
Displays the list of groups and components. The following shows an example.

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

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

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

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

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

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

```bash
>dscli getList root /g /x
root
    group1 <GROUP>
    group11 <GROUP>
    group2 <GROUP>
    group3 <GROUP>
    group31 <GROUP>
    group32 <GROUP>
```
2.1.2 createGroup

Syntax:

dscli createGroup GroupName [ParentGroupName]

Description:
Creates a new component group.

Options:

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

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

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

2.1.3 deleteGroup

Syntax:

dscli deleteGroup GroupName

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

Options:

GroupName
Specify the name of the group.

2.1.4 moveGroup

Syntax:

dscli moveGroup GroupName [ParentGroupName]

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

Options:

GroupName
Specify the name of group.

ParentGroupName
Specify the name of the parent group to move to.
If you move the group under root, specify “root” or omit this option.
2.1.5 setGroupProperty

Syntax:
dscli setGroupProperty GroupName PropertyName Value

Description:
Sets the property of a group.

Options:
GroupName
    Specify the name of group.

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

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

<table>
<thead>
<tr>
<th>PropertyName</th>
<th>Contents</th>
<th>Value</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>GROUP_NAME</td>
<td>Specify the name of the group.</td>
<td>Up to 63 characters</td>
<td>(None)</td>
</tr>
<tr>
<td>GROUPCOMMENT</td>
<td>Enter the comments of the group.</td>
<td>Up to 255 characters</td>
<td>(None)</td>
</tr>
</tbody>
</table>

TIP:
- The name of group that is already registered cannot be specified to GROUP_NAME.

2.1.6 getGroupProperty

Syntax:
dscli getGroupProperty GroupName PropertyName

Description:
Displays the property of a group.

Options:
GroupName
    Specify the name of group.

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

Output:
Display the property of a group.
2.1.7 **getGroupStatus**

**Syntax:**

dsc1i getGroupStatus *GroupName*

**Description:**
Displays the status of a specified component group. Among all component condition under the group, displays the worst condition as a status of the group.
Confirms the condition of component by component monitoring function.

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

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

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERROR</td>
<td>Error</td>
</tr>
<tr>
<td>WARNING</td>
<td>Warning</td>
</tr>
<tr>
<td>UNKNOWN</td>
<td>Unknown or connection error</td>
</tr>
<tr>
<td>DC-OFF</td>
<td>DC-OFF</td>
</tr>
<tr>
<td>NORMAL</td>
<td>Normal</td>
</tr>
<tr>
<td>NO_MONITORING</td>
<td>Out of monitoring</td>
</tr>
</tbody>
</table>
2.1.8 groupPowerOn

Syntax:

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

Description:

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

IMPORTANT:

- In case that the managed component does not support a force network-boot function which boots the component from network regardless of boot order, a force network-boot function cannot be executed. See “NEC ESM PRO Manager Managed Components Summary” whether the managed component supports function.

CHECK:

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

Options:

GroupName

Specify the name of group.
If you want to control all the components under root, specify “root”.

/p

Force boot from network after the power is turned on.

/exs

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

/exg

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

Output:

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

<table>
<thead>
<tr>
<th align="left">Component1</th>
</tr>
</thead>
<tbody>
<tr>
<td align="left">: Connection to the server could not be made. (Timeout)</td>
</tr>
<tr>
<td align="left">Component2</td>
</tr>
<tr>
<td align="left">: Connection to the server could not be made. (Authentication error)</td>
</tr>
</tbody>
</table>
2.1.9  groupPowerOff

Syntax:

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

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

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

CHECK:
- This command is not executed for the PowerBay, the EM card, and the switch blade.

Options:
GroupName
Specify the name of group.
If you want to control all the components underroot, specify "root".

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

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

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component1</td>
<td>Connection to the server could not be made. (Timeout)</td>
</tr>
<tr>
<td>Component2</td>
<td>Connection to the server could not be made. (Authentication error)</td>
</tr>
</tbody>
</table>
2.1.10 groupReset

Syntax:

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

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

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

CHECK:
- This command is not executed for the PowerBay, the EM card, and the switch blade.

Options:

GroupName
Specify the name of group.
If you want to control all the components under root, specify “root”.

/p
Force boot from network after reset.

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

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

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

<table>
<thead>
<tr>
<th>Component1</th>
<th>Connection to the server could not be made. (Timeout)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component2</td>
<td>Connection to the server could not be made. (Authentication error)</td>
</tr>
</tbody>
</table>
2.1.11 groupPowerCycle

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

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

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

CHECK:
- This command is not executed for the PowerBay, the EM card, and the switch blade.

Options:
Group Name
Specify the name of group.
If you want to control all the components under root, specify “root”.

/p
Force boot from network after the power is turned on.

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

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

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component1</td>
<td>Connection to the server could not be made. (Timeout)</td>
</tr>
<tr>
<td>Component2</td>
<td>Connection to the server could not be made. (Authentication error)</td>
</tr>
</tbody>
</table>
2.1.12 groupShutdownOs

Syntax:

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

Description:
Shut downs operating systems on all managed components in a specified group.
The managed components in the sub-group are also controlled.
This command via LAN instructs the NEC ESMPRO Agent Extension service to shutdown the operating system.
If you specify "/force" option, this command executes the forced shutdown OS function without communication to the NEC ESMPRO Agent Extension or the NEC ESMPRO Agent.
You need to specify "/force" option if the connection is via LAN or direct.

CHECK:
- This command is not executed for the PowerBay, the EM card, and the switch blade.

Options:
GroupName
- Specify the name of group.
- If you want to control all the components under root, specify "root".

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

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

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

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component1</td>
<td>Connection to the component could not be made. (Timeout)</td>
</tr>
<tr>
<td>Component2</td>
<td>Connection to the component could not be made. (Authentication error)</td>
</tr>
</tbody>
</table>
2.1.13 groupSetPowerRestoreDelay

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

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

IMPORTANT:
- In case that the managed component does not support a setting of power restore delay, this command is invalid. See “NEC ESMPRO Manager Managed Components Summary” whether the managed component supports the function.

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

Options:
GroupName
Specify the name of group.
If you want to control all the components under root, specify “root”.

DelayTime
AAA–600
Set the delay time from turning on AC to turning on DC.
* AAA is the minimum value of the delay time of the components.

-1
Set “-1” if you do not change the delay time from turning on AC to turning on DC.

RANDOM
Set “RANDOM” if you change the delay time from turning on AC to turning on DC to random setting.
* If the component supports random setting, the random setting can be specified.

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

STAY_OFF
The managed component remains OFF when AC power is restored.

LAST_STATE
If the managed component is OFF when AC power is lost, the managed component remains OFF when AC power is restored.
If the managed component is ON, when AC power is lost, the managed component turns ON after the delay time when AC power is restored.

POWER_ON
The managed component turns ON after the delay time when AC power is restored.

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

/exg
When you specify “/exg” option and the group name after it, the command is not executed on the component under the specified group. You can specify plural group names.
Output:
If error has occurred, the name and the error message about each error-occurred managed component is displayed.
The following shows an example:

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

2.1.14 **groupGetRemoteKvmLicense**

**Syntax:**

dscli groupGetRemoteKvmLicense GroupName

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

**Options:**

*GroupName*

Specify the name of group.

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

**Output:**

The following are states of “Remote KVM and Media License”.

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

The following shows an example:

```
Component1 : Installed
Component2 : Installed
Component3 : Not Installed
Component4 : Unsupported
Component5 : -
: 
```
2.2 Component Management Commands

2.2.1 getServerList

Syntax:
dscli getServerList [/d]

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

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

<table>
<thead>
<tr>
<th>EXPRESSSCOPE Engine series</th>
<th>BMC is EXPRESSSCOPE Engine series.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARMC</td>
<td>BMC is Advanced Remote Management Card.</td>
</tr>
<tr>
<td>SWB</td>
<td>indicates that the managed component is a kind of switch blade.</td>
</tr>
</tbody>
</table>

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

If “/d” option is not specified:

```
Component1
Component2
Component3
```

If “/d” option is specified:

```
Component1
GUID 02010202:0000:0000:0000:000000000000
MAC1 00:30:13:f1:00:5a
MAC2 00:30:13:f1:00:5b
EXPRESSSCOPE Engine

Component2
GUID 00301316:cdfe:0180:0010:846e8062d906
MAC1 00:30:13:16:cd:fe
SWB

Component3
GUID 00010203:0405:0607:0809:0a0b0c0d0e0f
MAC1 00:00:4c:9f:13:cb
ARMC
```


2.2.2 getServerNameByMacAddr

**Syntax:**
```
dscli getServerNameByMacAddr MacAddress
```

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

**Options:**
-MacAddress
   Specify a MAC address of LAN port that BMC uses on the managed component.

The following shows an example.
```
dscli getServerNameByMacAddr 00:30:13:f1:00:5a
```

**Output:**
Displays the name of the managed component. The following shows an example.
```
Component1
```

2.2.3 getServerNameByGuid

**Syntax:**
```
dscli getServerNameByGuid GUID
```

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

**Options:**
-GUID
   Specify a GUID.

The following shows an example.
```
dscli getServerNameByGuid 00301316:cdfe:0180:0010:846e8062d906
```

**Output:**
Displays the name of the managed component. The following shows an example.
```
Component2
```
2.2.4 findNewServer

Syntax:
\[ \text{dscli findNewServer } \text{StartIpAddr} \text{ EndIpAddr} \]

Description:
Finds BMC on managed components that are not registered on NEC ESM PRO Manager according to IP address range specification.

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

**Options:**
- **StartIpAddr**
  Specify the start address of IP address range.
- **EndIpAddr**
  Specify the end address of IP address range.

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

<table>
<thead>
<tr>
<th>Status: SUCCESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.1</td>
</tr>
<tr>
<td>1st IP Address  : 192.168.14.18</td>
</tr>
<tr>
<td>2nd IP Address  : 0.0.0.0</td>
</tr>
<tr>
<td>Current IP Address : 192.168.14.18</td>
</tr>
<tr>
<td>IPMI Version    : 1.5</td>
</tr>
<tr>
<td>GUID            : 84ee20b0:84a1:d511:0080:a0ff94470300</td>
</tr>
<tr>
<td>No.2</td>
</tr>
<tr>
<td>1st IP Address  : 192.168.14.19</td>
</tr>
<tr>
<td>2nd IP Address  : 0.0.0.0</td>
</tr>
<tr>
<td>Current IP Address : 192.168.14.19</td>
</tr>
<tr>
<td>IPMI Version    : 1.5</td>
</tr>
<tr>
<td>GUID            : 00004c79:45c0:0180:0010:f57f80d8cef8</td>
</tr>
</tbody>
</table>
2.2.5 findNewServerNetAddr

Syntax:
dscli findNewServerNetAddr NetAddr NetMask

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

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

Options:
- NetAddr
  Specify network address.
- NetMask
  Specify network mask.

Output:
Displays the list of the found managed components same as the output by “findNewServer” command. See 2.2.4 findNewServer.

2.2.6 createServer

Syntax:
dscli createServer ComponentName GroupName AuthKey [IpAddr1] [IpAddr2]

Description:
Newly registers a managed component on the NEC ESMPRO Manager.

Options:
- ComponentName
  Specify the name of the managed component. You can input up to 63 characters.
- GroupName
  Specify the name of group that the managed component belongs to.
- AuthKey
  Specify the authentication key that is configured on BMC. You can input up to 16 characters.
- IpAddr1
  Specify the IP address of the managed component's BMC. This option is omissible if you control the managed component via modem or with direct connection.
- IpAddr2
  Specify the extra IP address of the managed component's BMC. This option is omissible.

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

**Syntax:**
```bash
dscli deleteServer Component [/force]
```

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

**Options:**
- **Component**
  Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.
- **/force**
  When you delete the managed component that has been set schedule running, the schedule is deleted from NEC ESMPRO Agent Extension. But if the schedule deletion is failed (such as NEC ESMPRO Agent Extension is uninstalled), the component cannot be deleted. In this case you can specify "/force" option to delete component forcibly.

2.2.8 checkConnection

**Syntax:**
```bash
dscli checkConnection Component [/force]
```

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

**Options:**
- **Component**
  Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.
- **/force**
  Execute the command with "/force" option if the managed component is replaced.

**TIP:**
- If NEC ESMPRO Manager Ver.5 manages NEC ESMPRO Manager Ver.4, and the "/force" option is specified, NEC ESMPRO Manager Ver.5 may connect with different component in communication with NEC ESMPRO Manager Ver.4 and BMC communication.
2.2.9 setServerProperty

Syntax:
dscli setServerProperty Component PropertyName Value

Description:
Sets the property of a managed component.

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

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

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

<table>
<thead>
<tr>
<th>PropertyName</th>
<th>Contents</th>
<th>Value</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSOLE_LOG_ENABLE</td>
<td>Determine whether to enable/disable the get console log function to save the Remote Console screen data in text format.</td>
<td>0: Disabled</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: Enabled</td>
<td></td>
</tr>
<tr>
<td>CONSOLE_LOG_SIZE</td>
<td>Specify the maximum size (in KB) of the console log.</td>
<td>4 - 1000</td>
<td>64</td>
</tr>
<tr>
<td>CONSOLE_LOG_KEEP_CONNECTION</td>
<td>Determine whether to get console log even while remote console is not open on web browser.</td>
<td>0: Disabled</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: Enabled</td>
<td></td>
</tr>
<tr>
<td>CONSOLE_LOG_FAULT_MESSAGE_MONITORING</td>
<td>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.</td>
<td>0: Disabled</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: Enabled</td>
<td></td>
</tr>
<tr>
<td>CONSOLE_LOG_FAULT_MESSAGE_IDENTIFIER</td>
<td>Specify the character string for the fault message monitoring function.</td>
<td>Up to 20 characters</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>/BP</td>
</tr>
<tr>
<td>SERVER_NAME *1</td>
<td>Specify the name of the managed component.</td>
<td>Up to 63 characters</td>
<td>(None)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SERVER_AUTHKEY *1</td>
<td>Specify the authentication key to communicate with BMC of the managed component.</td>
<td>Up to 16 characters</td>
<td>(None)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SERVER_CURRENT_PORT_TYPE</td>
<td>Specify the connection type between the NEC ESM PRO Manager component and the managed component. Only LAN can be specified for the EM card.</td>
<td>0: LAN</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: Direct</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2: Modern</td>
<td></td>
</tr>
<tr>
<td>SERVER_IP_1 *1</td>
<td>Specify BMC IP address to communicate via LAN.</td>
<td>IP address format</td>
<td>0.0.0.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SERVER_IP_2</td>
<td>Specify extra BMC IP address to communicate via LAN.</td>
<td>IP address format</td>
<td>0.0.0.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SERVER_CURRENT_IP *1</td>
<td>Specify current BMC IP address to communicate via LAN.</td>
<td>IP address format</td>
<td>0.0.0.0</td>
</tr>
<tr>
<td>PropertyName</td>
<td>Contents</td>
<td>Value</td>
<td>Default</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>---------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>SERVER_SUBNETMASK_1 *1</td>
<td>Specify subnet mask of the BMC IP address.</td>
<td>IP address format</td>
<td>255.255 255.0</td>
</tr>
<tr>
<td>SERVER_SUBNETMASK_2</td>
<td>Specify subnet mask of the extra BMC IP address.</td>
<td>IP address format</td>
<td>255.255 255.0</td>
</tr>
<tr>
<td>SERVER_PHONE_NUMBER</td>
<td>Specify the phone number to communicate via modem.</td>
<td>Up to 19 characters</td>
<td>(Blank)</td>
</tr>
<tr>
<td>SERVER_ALIAS *1</td>
<td>Specify the alias of the managed component.</td>
<td>Up to 255 bytes</td>
<td>(Same as component name)</td>
</tr>
</tbody>
</table>

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

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

### 2.2.10 moveServer

**Syntax:**

dscli moveServer Component GroupName

**Description:**
Changes the group that a managed component belongs to.

**Options:**

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

**GroupName**
Specify the name of new group.
If you want to move the component under root, specify “root”.
2.2.11 getServerGroup

Syntax:
dscli getServerGroup Component

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

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

Output:
Display the name of group that a managed component belongs to.
If it belongs to root, displays “root”.

2.2.12 setCurrentPort

Syntax:
dscli setCurrentPort Component Connection

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

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

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

<table>
<thead>
<tr>
<th>Connection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAN</td>
<td>Connects via LAN</td>
</tr>
<tr>
<td>SERIAL</td>
<td>Connects directly to serial port</td>
</tr>
<tr>
<td>MODEM</td>
<td>Connects via modem</td>
</tr>
</tbody>
</table>
2.2.13 getServerProperty

Syntax:

d.cli getServerProperty Component PropertyName

Description:
Displays the specified property of a managed component.

Options:

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

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

Output:
Displays the specified property of a managed component.

2.2.14 getServerInfo

Syntax:

d.cli getServerInfo Component

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

Options:

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

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

<table>
<thead>
<tr>
<th>Item Name</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>ComponentName</td>
<td>Name of the managed component</td>
</tr>
<tr>
<td>Alias</td>
<td>Alias of the managed component</td>
</tr>
<tr>
<td>Group</td>
<td>Name of the group that the managed component belongs to.</td>
</tr>
<tr>
<td>Connection Type</td>
<td>Connection type between the managed component and the NEC ESMPRO Manager component.</td>
</tr>
<tr>
<td>BMC Control</td>
<td>Display BMC management status</td>
</tr>
<tr>
<td></td>
<td>Enable: management is valid</td>
</tr>
<tr>
<td></td>
<td>Disable: management is invalid</td>
</tr>
<tr>
<td></td>
<td>Not Registered: not registered for management</td>
</tr>
<tr>
<td></td>
<td>Not Support: out of management (BMC is not integrated)</td>
</tr>
<tr>
<td>Check Connection</td>
<td>Display &quot;Completed&quot; if the Check connection has been executed.</td>
</tr>
<tr>
<td>BMC Current IP Address</td>
<td>Current BMC IP address to connect to the managed component via LAN.</td>
</tr>
<tr>
<td>Failover</td>
<td>Determine whether to enable/disable the Fail over function that continues communication by changing to the other IP address if communication with the current BMC IP address encounters an error.</td>
</tr>
<tr>
<td>BMC LAN1 IP Address</td>
<td>BMC IP address to connect to the managed component via LAN.</td>
</tr>
<tr>
<td>BMC LAN1 Subnet Mask</td>
<td>Subnet mask of the BMC IP address</td>
</tr>
<tr>
<td><strong>BMC LAN2 IP Address</strong></td>
<td>Extra BMC IP address to connect to the managed component via LAN.</td>
</tr>
<tr>
<td>--------------------------</td>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>BMC LAN2 Subnet Mask</strong></td>
<td>Subnet mask of the extra BMC IP address</td>
</tr>
<tr>
<td><strong>Phone Number</strong></td>
<td>Phone number of the managed component</td>
</tr>
<tr>
<td><strong>Product Name</strong></td>
<td>Product name of the managed component</td>
</tr>
<tr>
<td><strong>Serial Number</strong></td>
<td>Serial number of the managed component</td>
</tr>
<tr>
<td><strong>GUID</strong></td>
<td>ID for identifying the managed component</td>
</tr>
<tr>
<td><strong>IPMI Version</strong></td>
<td>IPMI version that the managed component supports</td>
</tr>
<tr>
<td><strong>Remote KVM and Media License</strong></td>
<td>State of &quot;Remote KVM and Media License&quot; of the managed component. If this managed component does not contain EXPRESSSCOPE Engine series, this item is not shown. See 2.1.14 &quot;groupGetRemoteKvmLicense&quot; for details.</td>
</tr>
<tr>
<td><strong>Chassis Name</strong></td>
<td>Name of chassis in which the managed component is installed. This item is shown if the managed component is CPU blade or switch blade.</td>
</tr>
<tr>
<td><strong>Slot Number</strong></td>
<td>Number of the slot in which the managed component is installed. This item is shown if the managed component is CPU blade or switch blade.</td>
</tr>
<tr>
<td><strong>Blade Width</strong></td>
<td>Blade width with the occupied slot count. This item is shown if the managed component is CPU blade or switch blade.</td>
</tr>
<tr>
<td><strong>Blade Height</strong></td>
<td>Blade Height with the occupied slot count. This item is shown if the managed component is CPU blade or switch blade.</td>
</tr>
<tr>
<td><strong>Blade Name</strong></td>
<td>Blade name. This item is shown if the managed component has the name.</td>
</tr>
</tbody>
</table>
2.2.15 getDeviceId

**Syntax:**
dscli getDeviceId Component

**Description:**
Obtains management controller information of the managed component.

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

**Output:**
Displays management controller information. The following shows an example:

<table>
<thead>
<tr>
<th>Device ID</th>
<th>20H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Rev.</td>
<td>1</td>
</tr>
<tr>
<td>Fw Rev.</td>
<td>00.08</td>
</tr>
<tr>
<td>Manufacturer ID</td>
<td>119</td>
</tr>
<tr>
<td>Product ID</td>
<td>2c3H</td>
</tr>
</tbody>
</table>

2.2.16 getGuid

**Syntax:**
dscli getGuid Component

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

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

**Output:**
Displays GUID.
2.2.17 getProductName

Syntax:
dscli getProductName Component

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

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

Output:
Displays the following information.
- **ProductName**: product name of the managed component.
- **SerialNumber**: serial number of the managed component.

2.2.18 getSoftwareInfo

Syntax:
dscli getSoftwareInfo Component

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

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

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

<table>
<thead>
<tr>
<th>Agent Extension Version</th>
<th>2.03.04</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS Version</td>
<td>6.0.0106</td>
</tr>
<tr>
<td>OS Version</td>
<td>Windows 2003 Server</td>
</tr>
</tbody>
</table>
2.2.19 setShutdownPolicy

Syntax:
dscli setShutdownPolicy Component KeyName Value

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

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

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

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

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

Syntax:
dscli getShutdownPolicy Component

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

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

Output:
Displays shutdown policy. For details, see 2.2.19.

The following shows an example.

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

Syntax:
dscli setPowerRestoreDelay Component DelayTime [/x Policy]

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

IMPORTANT:
• In case that the managed component does not support a setting of power restore delay, This command is invalid. See “NEC ESMPRO Manager Managed Components Summary” whether the managed component supports the function.

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

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

DelayTime

AAA – BBB Set the delay time from turning on AC to turning on DC.
* AAA is the minimum value of the delay time of the components.
* If the component is EXPRESSSCOPE Engine 3, BBB is 600.
* If the component is not EXPRESSSCOPE Engine 3, BBB is 255.
-1 Set “-1” if you do not change the delay time from turning on AC to turning on DC.
RANDOM Set “RANDOM” if you change the delay time from turning on AC to turning on DC to random setting.
  * If the component supports random setting, the random setting can be specified.

/x Policy
Set AC-Link policy. There are 3 types of the policy.
STAY_OFF The managed component remains OFF when AC power is restored.
LAST_STATE If the managed component is OFF when AC power is lost, the managed component remains OFF when AC power is restored.
  If the managed component is turned AC OFF during it is in DC ON, the managed component is turned DC ON after the delay time when it is turned AC ON.
POWER_ON The managed component is turned DC ON after the delay time when it is turned AC ON.
2.2.22 getPowerRestoreDelay

Syntax:

dsci getPowerRestoreDelay Component

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

Options:

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

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

<table>
<thead>
<tr>
<th>Policy</th>
<th>LAST_STATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delay Time</td>
<td>RANDOM</td>
</tr>
<tr>
<td>Delay Time Range</td>
<td>45 - 600 sec</td>
</tr>
</tbody>
</table>

2.2.23 setBmcInfo

Syntax:

dsci setBmcInfo Component KeyName Value [/x ModuleNo]

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

TIPS:
- Use setAuthKey command to change authentication key or password of PPP server. See 2.2.25 setAuthKey.
- Use setSensorLevel command to change separate sensor level. See 2.2.26 setSensorLevel.
- CFG_NETWORK_SHA RED_BMC_LAN, CFG_NETWORK_BMC_MAC, CFG_NETWORK_GUID cannot be specified for setBmcInfo command. Specify those for getBmcInfo command. See 2.2.24 getBmcInfo.

Options:

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

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

Value
Specify the new values to be set. See the list below.
Specify the CPU/IO module number (0 or 1) if the managed component is a fault tolerant server. This parameter is valid for the network items. For network items, this command changes the setting of the CPU/IO module 0 if you omit this parameter for the fault tolerant server. For the other items, this command changes the setting of both CPU/IO modules regardless of the parameter.

Specify the Master BMC(0) or Standby BMC(1) if the managed component is the server which has EXPRESSSCOPE Engine SP3 (2BMC model). This option is valid for network configurations. For network property items, this command changes the setting of the Master BMC(0) if you omit this parameter for the server which has EXPRESSSCOPE Engine SP3 (2BMC model).

<table>
<thead>
<tr>
<th>KeyName</th>
<th>Contents</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFG_COMPUTER_NAME</td>
<td>Common: Computer Name</td>
<td>Up to 15 characters</td>
</tr>
<tr>
<td>CFG_COMMUNITY</td>
<td>Common: Community Name</td>
<td>Up to 16 characters</td>
</tr>
<tr>
<td>CFG_ALERT_ALL</td>
<td>Common: Alert</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_POLICY</td>
<td>Common: AlertPolicy</td>
<td>1: One Alert Destination 2: All Alert Destination</td>
</tr>
<tr>
<td>CFG_ALERT_ACKNOWLEDGE</td>
<td>Common: AlertAcknowledge</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_ALERT_LEVEL</td>
<td>Common: AlertLevel</td>
<td>0: no Alert 1-6: Alert Level 1-6</td>
</tr>
<tr>
<td>CFG_LAN_CONTROL_LAN1</td>
<td>Common: Remote Control (LAN1)</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_SERIAL_CONTROL</td>
<td>Common: Remote Control (WAN/Direct)</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_LAN_REDIRECTION</td>
<td>Common: Redirection (LAN)</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_SERIAL_REDIRECTION</td>
<td>Common: Redirection (WAN/Direct)</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_LAN_CONTROL_LAN2</td>
<td>Common: Remote Control (LAN2)</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_LAN_ALERT_POLICY_LAN</td>
<td>Common: LAN1 / LAN2 priority</td>
<td>0: LAN1 1: LAN2</td>
</tr>
<tr>
<td>CFG_LAN_ALERT_POLICY_DESTINATION</td>
<td>Common: LAN / Alert Receiver priority</td>
<td>0: LAN Channel 1: Alert Receiver</td>
</tr>
<tr>
<td>CFG_DHCP</td>
<td>LAN1: Obtain an IP Address automatically(DHCP)</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_LAN_IP_LAN1</td>
<td>LAN1: IP Address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_SUBNET_LAN1</td>
<td>LAN1: SubnetMask</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_GATEWAY_LAN1</td>
<td>LAN1: Default Gateway</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE1_ALERT_LAN1</td>
<td>LAN1: Alert Receiver/ management PC(1)Alert</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>KeyName</td>
<td>Contents</td>
<td>Value</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>---------------------------------------------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE1_IP_LAN1</td>
<td>LAN1: Alert Receiver/management PC(1) IP address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE2_ALERT_LAN1</td>
<td>LAN1: Alert Receiver/management PC(2) Alert</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: Enabled</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE2_IP_LAN1</td>
<td>LAN1: Alert Receiver/management PC(2) IP address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE3_ALERT_LAN1</td>
<td>LAN1: Alert Receiver/management PC(3) Alert</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: Enabled</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE3_IP_LAN1</td>
<td>LAN1: Alert Receiver/management PC(3) IP address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_ALERT_RETRY_COUNT_LAN1</td>
<td>LAN1: Alert Retry Count</td>
<td>0 - 7</td>
</tr>
<tr>
<td>CFG_LAN_ALERT_RETRY_TIMEOUT_LAN1</td>
<td>LAN1: Alert Timeout (in seconds)</td>
<td>3 - 30</td>
</tr>
<tr>
<td>CFG_DHCP_LAN2</td>
<td>LAN2: Obtain an IP Address automatically(DHCP)</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: Enabled</td>
</tr>
<tr>
<td>CFG_LAN_IP_LAN2</td>
<td>LAN2: IP Address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_SUBNET_LAN2</td>
<td>LAN2: Subnet Mask</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_GATEWAY_LAN2</td>
<td>LAN2: Default Gateway</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE1_ALERT_LAN2</td>
<td>LAN2: Alert Receiver/management PC (1) Alert</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: Enabled</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE1_IP_LAN2</td>
<td>LAN2: Alert Receiver/management PC (1) IP address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE2_ALERT_LAN2</td>
<td>LAN2: Alert Receiver/management PC (2) Alert</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: Enabled</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE2_IP_LAN2</td>
<td>LAN2: Alert Receiver/management PC (2) IP address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE3_ALERT_LAN2</td>
<td>LAN2: Alert Receiver/management PC (3) Alert</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: Enabled</td>
</tr>
<tr>
<td>CFG_LAN_MANAGE3_IP_LAN2</td>
<td>LAN2: Alert Receiver/management PC (3) IP address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_LAN_ALERT_RETRY_COUNT_LAN2</td>
<td>LAN2: Alert Retry Count</td>
<td>0 – 7</td>
</tr>
<tr>
<td>CFG_LAN_ALERT_RETRY_TIMEOUT_LAN2</td>
<td>LAN2: Alert Timeout (in seconds)</td>
<td>3 – 30</td>
</tr>
<tr>
<td>CFG_SERIAL_MODE</td>
<td>WAN/Direct: Mode</td>
<td>1: Direct</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2: Modem</td>
</tr>
<tr>
<td>Key Name</td>
<td>Contents</td>
<td>Value</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 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          | 1 character |
| CFG_SERIAL_DIAL_RETRY_COUNT | WAN/Direct Dial retry count     | 0 – 7 |
| CFG_SERIAL_DIAL_RETRY_INTERVAL | WAN/Direct Dial retry interval (in seconds) | 60 – 240 |
| CFG_SERIAL_ALERT_RETRY_COUNT | WAN/Direct Alert retry count    | 0 – 7 |
| CFG_SERIAL_ALERT_RETRY_INTERVAL | WAN/Direct Alert timeout Interval (in seconds) | 3 – 30 |
| CFG_SERIAL_ALERT_PPP1       | WAN/Direct Primary PPP component Alert | 0: Disabled  
1: Enabled |
| CFG_SERIAL_DIAL_NUMBER_PPP1 | WAN/Direct Primary PPP component Phone Number | Up to 19 characters |
| CFG_SERIAL_USER_ID_PPP1     | WAN/Direct Primary PPP component User ID | Up to 16 characters |
| CFG_SERIAL_DOMAIN_PPP1      | WAN/Direct Primary PPP component Domain | Up to 16 characters |
| CFG_SERIAL_ALERT_PPP2       | WAN/Direct Secondary PPP component Alert | 0: Disabled  
1: Enabled |
<p>| CFG_SERIAL_DIAL_NUMBER_PPP2 | WAN/Direct Secondary PPP component Phone Number | Up to 19 characters |
| CFG_SERIAL_USER_ID_PPP2     | WAN/Direct Secondary PPP component User ID | Up to 16 characters |
| CFG_SERIAL_DOMAIN_PPP2      | WAN/Direct Secondary PPP component Domain | Up to 16 characters |
| CFG_SERIAL_MANAGE1_IP       | WAN/Direct Alert Receiver (1) IP address | IP address format |</p>
<table>
<thead>
<tr>
<th>KeyName</th>
<th>Contents</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFG_SERIAL_MANAGE2_IP</td>
<td>WAN/Direct Alert Receiver (2) IP address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_SERIAL_MANAGE3_IP</td>
<td>WAN/Direct Alert Receiver (3) IP address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_PAGER_MANAGE1_ALERT</td>
<td>Pager: Alert Receiver (1) Alert</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_PAGER_MANAGE1_DIAL_NUMBER</td>
<td>Pager: Alert Receiver (1) Phone Number</td>
<td>Up to 19 characters</td>
</tr>
<tr>
<td>CFG_PAGER_MANAGE2_ALERT</td>
<td>Pager: Alert Receiver (2) Alert</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_PAGER_MANAGE2_DIAL_NUMBER</td>
<td>Pager: Alert Receiver (2) Phone Number</td>
<td>Up to 19 characters</td>
</tr>
<tr>
<td>CFG_PAGER_MESSAGE</td>
<td>Pager: Pager message</td>
<td>Up to 29 characters</td>
</tr>
<tr>
<td>CFG_PAGER_TIMEOUT</td>
<td>Pager: Guide Message Waiting Time (2 seconds unit)</td>
<td>0-30</td>
</tr>
<tr>
<td>CFG_NETWORK_SHARED_BMC_LAN</td>
<td>Network Property: Management LAN LAN Port</td>
<td>0: Management LAN 1: Shared System LAN</td>
</tr>
<tr>
<td>CFG_NETWORK_SHARED_BMC_LAN_DUPICAL</td>
<td>Network Property: Shared BMC LAN Duplication</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_NETWORK_VLAN</td>
<td>Network Property: VLAN</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_NETWORK_VLAN_ID</td>
<td>Network Property: VLAN ID</td>
<td>1 - 4094</td>
</tr>
<tr>
<td>CFG_NETWORK_VLAN_PRIORITY</td>
<td>Network Property: VLAN Priority</td>
<td>0 - 7</td>
</tr>
<tr>
<td>KeyName</td>
<td>Contents</td>
<td>Value</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-----------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>CFG_NETWORK_BMC_MAC</td>
<td>Network Property: BMC MAC Address</td>
<td>MAC address format</td>
</tr>
<tr>
<td>CFG_NETWORK_DHCP</td>
<td>Network Property: Basic DHCP</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_NETWORK_IP_LAN</td>
<td>Network Property: Basic IP Address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_NETWORK_SUBNET_LAN</td>
<td>Network Property: Basic SubnetMask</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_NETWORK_GATEWAY_LAN</td>
<td>Network Property: Basic Default Gateway</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_NETWORK_DYNAMIC_DNS</td>
<td>Network Property: Basic Dynamic DNS</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_NETWORK_DNS_SERVER</td>
<td>Network Property: Basic DNS Server</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_NETWORK_HOST_NAME</td>
<td>Network Property: Basic Host Name</td>
<td>Up to total of 254 characters of Host Name and Domain Name</td>
</tr>
<tr>
<td>CFG_NETWORK_DOMAIN_NAME</td>
<td>Network Property: Basic Domain Name</td>
<td>Up to total of 254 characters of Host Name and Domain Name</td>
</tr>
<tr>
<td>CFG_NETWORK_GUID</td>
<td>Network Property: Basic System GUID</td>
<td></td>
</tr>
<tr>
<td>CFG_NETWORK_IPV6</td>
<td>IPv6</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_NETWORK_IPV6_ASSIGNMENT_MODE</td>
<td>IPv6 Address Assignment Mode</td>
<td>0: Static 1: Dynamic</td>
</tr>
<tr>
<td>CFG_NETWORK_IPV6_LINK_LOCAL_ADDRESS</td>
<td>IPv6 Link Local Address</td>
<td></td>
</tr>
<tr>
<td>CFG_NETWORK_IPV6_GLOBAL_ADDRESS</td>
<td>IPv6 Global Address</td>
<td></td>
</tr>
<tr>
<td>CFG_NETWORK_IPV6_STATIC_ADDRESS</td>
<td>IPv6 Static Address</td>
<td></td>
</tr>
<tr>
<td>CFG_NETWORK_IPV6_PREFIX_LENGTH</td>
<td>IPv6 Prefix Length</td>
<td>0 - 64</td>
</tr>
<tr>
<td>CFG_NETWORK_IPV6_GATEWAY_ADDRESS</td>
<td>IPv6 Gateway Address</td>
<td></td>
</tr>
<tr>
<td>CFG_NETWORK_IPV6_DNS_SERVER</td>
<td>IPv6 DNS Server Address</td>
<td></td>
</tr>
<tr>
<td>CFG_NETWORK_ACCESS_LIMITATION_TYPE</td>
<td>Network Property: Access Limitation Access Limitation Type</td>
<td>0: Allow All 1: Allow Address 2: Deny Address</td>
</tr>
<tr>
<td>KeyName</td>
<td>Contents</td>
<td>Value</td>
</tr>
<tr>
<td>------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>CFG_NETWORK_ACCESS_ADDRESS</td>
<td>Network Property: Access Limitation IP Address</td>
<td>IP address format Please delimit Internet Protocol address by using comma The wildcard (*) can be used in IP address.</td>
</tr>
<tr>
<td>CFG_NETWORK_HTTP</td>
<td>Network Service: Web Server HTTP</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_NETWORK_HTTP_PORT</td>
<td>Network Service: Web Server HTTP Port</td>
<td>1 - 65535</td>
</tr>
<tr>
<td>CFG_NETWORK_HTTPS</td>
<td>Network Service: Web Server HTTPS</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_NETWORK_HTTPS_PORT</td>
<td>Network Service: Web Server HTTPS Port</td>
<td>1 - 65535</td>
</tr>
<tr>
<td>CFG_NETWORK_SSH</td>
<td>Network Service: SSH Interface SSH</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_NETWORK_SSH_PORT</td>
<td>Network Service: SSH Interface SSH Port</td>
<td>1 - 65535</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT</td>
<td>Alert Mail Alert:</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_TIMEOUT</td>
<td>Alert Mail Alert: Response time of SMTP server</td>
<td>30 - 600</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_SERVER</td>
<td>Alert Mail Alert: SMTP Server</td>
<td>Up to 255 characters</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_PORT</td>
<td>Alert Mail Alert: SMTP Server SMTP Port</td>
<td>1 - 65535</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_CRAMMD5</td>
<td>Alert Mail Alert: SMTP Server SMTP Authentication CRAM-MD5</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_LOGIN</td>
<td>Alert Mail Alert: SMTP Server SMTP Authentication LOGIN</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>KeyName</td>
<td>Contents</td>
<td>Value</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_PLAIN</td>
<td>Alert Mail Alert: SMTP Server SMTP Authentication PLAIN</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_USER</td>
<td>Alert Mail Alert: SMTP Server UserName</td>
<td>Up to 64 characters</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_TO1</td>
<td>Alert Mail Alert: Mail To1 Mail To1 Address</td>
<td>Up to 255 characters Please specify 0 when Mail Alert is disabled.</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_TO2</td>
<td>Alert Mail Alert: Mail To2 Mail To2 Address</td>
<td>Up to 255 characters Please specify 0 when Mail Alert is disabled.</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_TO3</td>
<td>Alert Mail Alert: Mail To3 Mail To3 Address</td>
<td>Up to 255 characters Please specify 0 when Mail Alert is disabled.</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_FROM</td>
<td>Alert Mail Alert: Mail From</td>
<td>Up to 255 characters</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_REPLY</td>
<td>Alert Mail Alert: Mail Reply-To</td>
<td>Up to 255 characters</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_SUBJECT</td>
<td>Alert Mail Alert: Mail Subject</td>
<td>Up to 63 characters</td>
</tr>
<tr>
<td>CFG_MAIL_ALERT_LEVEL</td>
<td>Alert Mail Alert: Alert Level</td>
<td>0: Error 1: Error, Warning 2: Error, Warning, Information 3: Separate setting</td>
</tr>
<tr>
<td>CFG_SNMP_ALERT</td>
<td>Alert SNMP Alert: Alert</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_SNMP_COMPUTER_NAME</td>
<td>Alert SNMP Alert: Computer Name</td>
<td>Up to 16 characters</td>
</tr>
<tr>
<td>CFG_SNMP_COMMUNITY</td>
<td>Alert SNMP Alert: CommunityName</td>
<td>Up to 16 characters</td>
</tr>
<tr>
<td>CFG_SNMP_ALERT_ACKNOWLEDGE</td>
<td>Alert SNMP Alert: Alert Acknowledge</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_SNMP_ALERT_POLICY</td>
<td>Alert SNMP Alert: Alert Process</td>
<td>1: One Alert Receiver 2: All Alert Receivers</td>
</tr>
<tr>
<td>CFG_SNMP_ALERT_RETRY_COUNT</td>
<td>Alert SNMP Alert: Alert Retry Count</td>
<td>0 – 7</td>
</tr>
<tr>
<td>KeyName</td>
<td>Contents</td>
<td>Value</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---------------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>CFG_SNMP_ALERT_TIMEOUT</td>
<td>Alert SNMP Alert: Alert Timeout</td>
<td>3 - 30</td>
</tr>
<tr>
<td>CFG_SNMP_MANAGE1_ALERT</td>
<td>Alert SNMP Alert: Alert Receiver Primary Alert</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_SNMP_MANAGE1_IP</td>
<td>Alert SNMP Alert: Alert Receiver Primary IP Address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_SNMP_MANAGE2_ALERT</td>
<td>Alert SNMP Alert: Alert Receiver Secondary Alert</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_SNMP_MANAGE2_IP</td>
<td>Alert SNMP Alert: Alert Receiver Secondary IP Address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_SNMP_MANAGE3_ALERT</td>
<td>Alert SNMP Alert: Alert Receiver Tertiary Alert</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>CFG_SNMP_MANAGE3_IP</td>
<td>Alert SNMP Alert: Alert Receiver Tertiary IP Address</td>
<td>IP address format</td>
</tr>
<tr>
<td>CFG_SNMP_ALERT_LEVEL</td>
<td>Alert SNMP Alert: Alert Level</td>
<td>0: Error 1: Error, Warning 2: Error, Warning, Information 3: Separate setting</td>
</tr>
<tr>
<td>CFG_MISCCELLANEOUS_SEL</td>
<td>Other: SEL Behavior when SEL repository is full</td>
<td>0: Stop logging SEL 1: Clear all SEL 2: Overwrite oldest SEL</td>
</tr>
<tr>
<td>CFG_MISCCELLANEOUS_PEF</td>
<td>Other: Platform Event Filter Platform Event Filter</td>
<td>0: Disabled 1: Enabled</td>
</tr>
</tbody>
</table>
2.2.24 `getBmcInfo`

**Syntax:**
```
dscli getBmcInfo Component [/x ModuleNo]
```

**Description:**
Obtains BMC configuration information of a specified managed component.

**Options:**
- **Component**
  Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.

- **/x ModuleNo**
  Specify the CPU/IO module number (0 or 1) if the managed component is a fault tolerant server. This parameter is valid for the network items.
  For the network items, this command obtains the setting of the CPU/IO module 0 if you omit this parameter for the fault tolerant server.
  For the other items, this command obtains the setting of the current primary CPU/IO module regardless of the parameter.
  Specify the Master BMC(0) or Standby BMC(1) if the managed component is the server which has EXPRESSSCOPE Engine SP3 (2BMC model). This option is valid for network configurations.
  For the network property items, this command obtains the setting of the Master BMC(0) if you omit this parameter for the server which has EXPRESSSCOPE Engine SP3 (2BMC model).

**Output:**
Displays BMC configuration information. See 2.2.23 `setBmcInfo` for details.

The following shows an example.
```
CFG_COMPUTER_NAME=Component1
CFG_COMMUNITY=public
CFG_ALERT_ALL=1
CFG_POLICY=1
CFG_ALERT_ACKNOWLEDGE=1
CFG_ALERT_LEVEL=4
CFG_LAN_REDIRCTION=1
CFG_LAN_CONTROL_LAN1=1
CFG_SERIAL_REDIRCTION=1
CFG_SERIAL_CONTROL=1
CFG_LAN_IP_LAN1=192.168.14.14
CFG_LAN_SUBNET_LAN1=255.255.255.0
CFG_LAN_GATEWAY_LAN1=192.168.14.1
CFG_LAN_MANAGE1_ALERT_LAN1=0
CFG_LAN_MANAGE1_IP_LAN1=0.0.0.0
CFG_LAN_MANAGE2_ALERT_LAN1=0
CFG_LAN_MANAGE2_IP_LAN1=0.0.0.0
CFG_LAN_MANAGE3_ALERT_LAN1=0
CFG_LAN_MANAGE3_IP_LAN1=0.0.0.0
CFG_LAN_ALERT_RETRY_COUNT_LAN1=3
CFG_LAN_ALERT_RETRY_TIMEOUT_LAN1=6
```
2.2.25 setAuthKey

Syntax:
```
dscli setAuthKey Component OldPassword NewPassword SelectAuthKey
```

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

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

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

**Options:**
- **Component**
  Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.
- **OldPassword**
  Specify current password.
- **NewPassword**
  Specify new authentication key or PPP server’s password up to 16 characters.
  Specify new SMTP server’s password up to 20 characters.
- **SelectAuthKey**
  Specify a type of password.
  - 0 Authentication key
  - 1 Password of primary PPP server
  - 2 Password of secondary PPP server
  - 3 Password of SMTP server

2.2.26 setSensorLevel

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

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

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

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

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

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

Level 1
Specify the alert level of error.

Level 2
Specify the alert level of warning.

Level 3
Specify the alert level of information.
0: Disable to change SNMP alert or MAIL alert of alert level
1: Enable to change SNMP alert or MAIL alert to 1 of alert level
2: Enable to change MAIL alert to 2 of alert level
3: Enable to change MAIL alert to 3 of alert level
4: Enable to change MAIL alert to 1 or MAIL alert to 2 of alert level
5: Enable to change MAIL alert to 1 or MAIL alert to 3 of alert level
6: Enable to change MAIL alert to 2 or MAIL alert to 3 of alert level
7: Enable to change MAIL alert to 1, MAIL alert to 2 or MAIL alert to 3 of alert level
8: SNMP alert and MAIL alert of unalterable alert level

TIP:
- 0 is specified for an unalterable alert level.

See the following list.
OK: Enable to change, NG: Disable to change

<table>
<thead>
<tr>
<th>SensorName</th>
<th>Contents</th>
<th>Level1</th>
<th>Level2</th>
<th>Level3</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEMP_THRESHOLD</td>
<td>Temperature Monitoring Threshold</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>VOLT_THRESHOLD</td>
<td>Voltage Monitoring Threshold</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>FAN_SENSOR</td>
<td>FAN(Speed)</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>COOL_DEV_THRESHOLD</td>
<td>Cooling Device Monitoring Threshold</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>TEMP_ABNORMAL</td>
<td>Temperature Monitoring Abnormal State</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>POST_MEM_RESIZE</td>
<td>POST Memory Resize</td>
<td>NG</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>MODULE_BOARD</td>
<td>Module/Board(Missing)</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>SMI_TIMEOUT</td>
<td>SMI Timeout</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>SensorName</td>
<td>Contents</td>
<td>Level1</td>
<td>Level2</td>
<td>Level3</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-------------------------------------------------------</td>
<td>--------</td>
<td>--------</td>
<td>--------</td>
</tr>
<tr>
<td>VOL_ABNORMAL</td>
<td>Voltage (Monitoring Abnormal State)</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>COOL_DEV_ABNORMAL</td>
<td>Cooling Device (Monitoring Abnormal State)</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>TRANSITION_PW_SAVE</td>
<td>Transition to Power Save</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>MICROCONTROLL_STS</td>
<td>Microcontroller State</td>
<td>NG</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>PW_UNIT_REDUN</td>
<td>Power Unit Redundancy</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>MEM_REDUN</td>
<td>Memory Redundancy</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>PHYSIC_SEC</td>
<td>Physical Security (Chassis Intrusion)</td>
<td>NG</td>
<td>OK *1</td>
<td>OK</td>
</tr>
<tr>
<td>PROCESSOR</td>
<td>Processor</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>PW_SUPPLY</td>
<td>Power Supply</td>
<td>NG</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>PW_UNIT_STS</td>
<td>Power Unit State</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>MEM</td>
<td>Memory</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>DRIVE_SLOT</td>
<td>Drive Slot (Bay)</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>POST_ERR</td>
<td>POST</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>EVT_LOG_DISABLED</td>
<td>Event Logging</td>
<td>NG</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>SYS_EVT</td>
<td>System Event</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>CRITICAL_INT</td>
<td>Critical Interrupt</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>BUTTON_SWITCH</td>
<td>Button/Switch</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>CHIP_SET</td>
<td>Chip set</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>CABLE_INTERRUPT</td>
<td>Cable/Interconnect</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>SYSTEM_BOOT_RESTART_INIT</td>
<td>System Boot/Restart Initiated</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>BOOT_ERR</td>
<td>Boot Error</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>OS_BOOT</td>
<td>OS Boot</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>OS_STOP_SHUTDOWN</td>
<td>OS Stop/Shutdown</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>SLOT_CONNECTOR</td>
<td>Slot/Connector</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>ACPI</td>
<td>System ACPI Power State</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>WATCHDOG_TIMER</td>
<td>Watchdog Timer</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>ENTITY_PRESENCE_INFO</td>
<td>Entity Presence Information</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>VERSION_CHANGE</td>
<td>Version Change</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>SSD_STATUS</td>
<td>SSD Status</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>SECURE_BOOT</td>
<td>Secure Boot</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>FRU_HOT_SWAP</td>
<td>FRU Hot Swap</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>SYS_SPEC_PW_STATE</td>
<td>System Specific Power State</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>PW_CAPPING</td>
<td>Power Capping</td>
<td>OK</td>
<td>OK</td>
<td>NG</td>
</tr>
<tr>
<td>SENSOR_FAILURE</td>
<td>Sensor Failure</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>MANAGEMENT_ENGINE</td>
<td>Management Engine</td>
<td>OK</td>
<td>OK *1</td>
<td>OK</td>
</tr>
</tbody>
</table>

*1 Some models of managed servers may not support.
See the following list for a fault tolerant server.
OK : Enable to change, NG : Disable to change

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

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

<table>
<thead>
<tr>
<th>SensorName</th>
<th>Contents</th>
<th>Level1</th>
<th>Level2</th>
<th>Level3</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEMP_THRESHOLD</td>
<td>Temperature (Monitoring Threshold)</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>VOLT_THRESHOLD</td>
<td>Voltage (Monitoring Threshold)</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>FAN_SENSOR</td>
<td>FAN(Speed)</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>POST_MEM_RESIZE</td>
<td>POST Memory Resize</td>
<td>NG</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>SMI_TIMEOUT</td>
<td>SMI Timeout</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>VOL_ABNORMAL</td>
<td>Voltage (Monitoring Abnormal State)</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>PROCESSOR_ABNORMAL</td>
<td>Processor (Monitoring Abnormal State)</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>MODULE_BOARD_ABNORMAL</td>
<td>Module/Board (Monitoring Abnormal State)</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>MODULE_BOARD_DISABLED</td>
<td>Module/Board (Monitoring Disabled State)</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>SLOT_CONNECTOR_DISABLED</td>
<td>Slot/Connector (Monitoring Disabled State)</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>SensorName</td>
<td>Contents</td>
<td>Level1</td>
<td>Level2</td>
<td>Level3</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-----------------------------------------------</td>
<td>--------</td>
<td>--------</td>
<td>--------</td>
</tr>
<tr>
<td>PROCESSOR_DEGRADED</td>
<td>Processor(Monitoring Degraded State)</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>MODULE_BOARD_DEGRADED</td>
<td>Module/Board(Monitoring Degraded State)</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>MICROCONTROLL_STS</td>
<td>Microcontroller State</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>SLOT_CONNECTOR_DEGRADED</td>
<td>Slot/Connector(Monitoring Degraded State)</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>FAN_REDUN</td>
<td>Fan Redundancy</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>MEM_REDUN</td>
<td>Memory Redundancy</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>PW_UNIT_REDUN</td>
<td>Power Unit Redundancy</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>PLATFORM_SEC</td>
<td>Platform Security Redundancy</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>PROCESSOR</td>
<td>Processor</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>PW_SUPPLY</td>
<td>Power Supply</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>PW_UNIT_STS</td>
<td>Power Unit State</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>MEM</td>
<td>Memory</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>DRIVE_SLOT</td>
<td>Drive Slot(Bay)</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>POST_ERR</td>
<td>POST</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>EVT_LOG_DISABLED</td>
<td>Event Logging</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>SYS_EVT</td>
<td>System Event</td>
<td>OK</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>CRITICAL_INT</td>
<td>Critical Interrupt</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>BUTTON_SWITCH</td>
<td>Button/Switch</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>CHIP_SET</td>
<td>Chip Set</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>SYS_BOOT_RESTART_INIT</td>
<td>System Boot/Restart Initiated</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>BOOT_ERR</td>
<td>Boot Error</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>OS_BOOT</td>
<td>OS Boot</td>
<td>NG</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>OS_STOP_SHUTDOWN</td>
<td>OS Stop/Shutdown</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>SLOT_CONNECTOR</td>
<td>Slot/Connector</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>ACPI</td>
<td>System ACPI Power State</td>
<td>NG</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>WATCHDOG_TIMER</td>
<td>Watchdog Timer</td>
<td>NG</td>
<td>OK</td>
<td>NG</td>
</tr>
<tr>
<td>ENTITY_PRESENCE_INFO</td>
<td>Entity Presence Information</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>BATTERY</td>
<td>Battery</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>SYS_SPEC_PW_STATE</td>
<td>System Specific Power State</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>PW_CAPPING</td>
<td>Power Capping</td>
<td>NG</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>SENSOR_FAILURE</td>
<td>Sensor Failure</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>MANAGEMENT_ENGINE</td>
<td>Management Engine</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
</tr>
</tbody>
</table>
2.2.27 getSensorLevel

Syntax:
dscli getSensorLevel Component Type

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

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

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

Output:
Displays alert level of BMC configuration information. See 2.2.26 setSensorLevel for details.
The following shows an example:

```
TEMP_THRESHOLD=111
VOLT_THRESHOLD=000
FAN_SENSOR=000
PLATFORM_SEC=800
PROCESSOR=000
PW_SUPPLY=000
PW_UNIT_STS=000
MEM=000
DRIVE_SLOT=000
EVT_LOG_DISABLED=800
SYS_EVT=080
CRITICAL_INT=000
BUTTON_SWITCH=880
MODULE_BOARD=800
SYS_BOOT_RESTART_INIT=880
BOOT_ERR=880
ACPI=880
SMI_TIMEOUT=800
POST_MEM_RESIZE=800
POST_ERR=800
SLOT_CONNECTOR=080
WATCHDOG_TIMER=080
SENSOR_FAILURE=800
```

2.2.28 getAgentExtensionLog

Syntax:
dscli getAgentExtensionLog Component

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

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

Output:
Displays the application logs of the NEC ESMPRO Agent Extension.
2.2.29 testAlert

Syntax:
dscli testAlert Component Target

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

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

Target
Specify an alert receiver.
LAN1_1 or 0: LAN1 alert receiver (1)
LAN1_2 or 1: LAN1 alert receiver (2)
LAN1_3 or 2: LAN1 alert receiver (3)
LAN2_1 or 3: LAN2 alert receiver (1)
LAN2_2 or 4: LAN2 alert receiver (2)
LAN2_3 or 5: LAN2 alert receiver (3)
PPP1_1 or 6: PPP1 alert receiver (1)
PPP1_2 or 7: PPP1 alert receiver (2)
PPP1_3 or 8: PPP1 alert receiver (3)
PPP2_1 or 9: PPP2 alert receiver (1)
PPP2_2 or 10: PPP2 alert receiver (2)
PPP2_3 or 11: PPP2 alert receiver (3)
Pager1 or 12: Pager alert receiver (1)
Pager2 or 13: Pager alert receiver (2)
SNMP1 or 14: SNMP alert receiver (1)
SNMP2 or 15: SNMP alert receiver (2)
SNMP3 or 16: SNMP alert receiver (3)
MAIL1 or 17: MAIL alert receiver (1)
MAIL2 or 18: MAIL alert receiver (2)
MAIL3 or 19: MAIL alert receiver (3)
2.2.30 getTestAlertStatus

**Syntax:**
dscli getTestAlertStatus Component Target

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

**Options:**

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

- **Target**
  Specify an alert receiver. See 2.2.29 testAlert.

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

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

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

```
TEST_TESTING
```

2.2.31 getServerStatus

**Syntax:**
dscli getServerStatus Component

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

**Options:**

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

**Output:**
Displays the managed component status as following.

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

Syntax:
dscli getPowerStatus Component

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

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

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

2.2.33 getStatusLamp

Syntax:
dscli getStatusLamp Component

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

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

Output:
Displays the state of a specified managed component STATUS lamp. There are the following states of the STATUS lamp:
- OFF: Turn off.
- GREEN_ON: Turn on green.
- GREEN_BLINK: Blink green.
- AMBER_ON: Turn on amber.
- AMBER_BLINK: Blink amber.
- RED_ON: Turn on red.
- RED_BLINK: Blink red.
2.2.34 getPanelInfo

Syntax:
dscli getPanelInfo Component [/x ModuleNo]

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

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

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

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

<table>
<thead>
<tr>
<th>Power Status</th>
<th>S0_G0</th>
</tr>
</thead>
<tbody>
<tr>
<td>STATUS Lamp</td>
<td>GREEN_ON</td>
</tr>
<tr>
<td>LCD0</td>
<td>Prepare To Boot</td>
</tr>
<tr>
<td>LCD1</td>
<td></td>
</tr>
<tr>
<td>watchdog status</td>
<td>STARTED</td>
</tr>
<tr>
<td>watchdog use</td>
<td>SMS_OS</td>
</tr>
<tr>
<td>watchdog interval</td>
<td>10 sec</td>
</tr>
<tr>
<td>POH</td>
<td>262920 min</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2.2.35 powerOn

Syntax:

dscsi powerOn Component [/p]

Description:

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

IMPORTANT:

- In case that the managed component does not support a force network-boot function which boots the component from network regardless of boot order, a force network-boot function cannot be executed. See “NEC ESM PRO Manager Managed Components Summary” whether the managed component supports function.
- In the case of PowerBay, The power control is not performed to the powerbay. It is performed to the maintenance card integrated on the PowerBay.

Options:

Component

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

/p

Force boot from network after the power is turned on.

2.2.36 powerOff

Syntax:

dscsi powerOff Component

Description:

Forcibly turns off a specified managed component.

IMPORTANT:

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

Options:

Component

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

Syntax:
dscli reset Component [/p]

Description:
Forcibly resets a specified managed component.

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

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

/p
  Force boot from network after reset.
2.2.38 powerCycle

Syntax:
dscli powerCycle Component [/p]

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

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

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

/p
Force boot from network after the power is turned on.
2.2.39 shutdownOs

Syntax:

dscli shutdownOs Component [/force]

Description:
Shuts down the operating system on a managed component.
This command via LAN instructs the NEC ESMPRO Agent Extension service to shutdown the operating system. The command via modem or with direct connection instructs the NEC ESMPRO Agent.
If you specify “/force” option, this command executes the forced shutdown OS function without communication to the NEC ESMPRO Agent Extension or the NEC ESMPRO Agent.

Options:

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

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

2.2.40 dumpSwitch

Syntax:

dscli dumpSwitch Component

Description:
Pushes DUMP switch on a managed component.

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

Options:

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

Syntax:
dscli clearSel Component [/force]

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

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

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

2.2.42 identifyChassis

Syntax:
dscli identifyChassis Component Period

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

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

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

2.2.43 getIpmiInfo

Syntax:
dscli getIpmiInfo Component FileName [/x ModuleNo]

Description:
Collects IPMI information and saves it as a specified file name.
If there is the type of information that is not read in but NEC ESMPRO Manager holds the previously read-in information, the information is also saved in the file.

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

Options:
Component
Specify the name, the MAC address of LAN port that BMC uses, or the GUID of the managed component.
FileName
Specify the filename with path name for saving the IPMI information.

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

2.2.44 getSensorList

Syntax:
`dscli getSensorList Component [/x ModuleNo]`

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

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

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

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

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

2.2.45 getSensorStatus

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

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

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

RecordId
Specify the SDR record ID from the sensor list displayed by 2.2.44 getSensorList command.
Specify the CPU/IO module number (0 or 1) if the managed component is a fault tolerant server.
If you omit this parameter for the fault tolerant server, this command obtains the status of the CPU/IO module 0.

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

<table>
<thead>
<tr>
<th>Current Value</th>
<th>30.00 degrees C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Status</td>
<td>Normal</td>
</tr>
<tr>
<td>Upper non-recoverable Threshold:</td>
<td>---</td>
</tr>
<tr>
<td>Upper critical Threshold:</td>
<td>46.00 degrees C (Hysteresis:44.00 degrees C)</td>
</tr>
<tr>
<td>Upper non-critical Threshold:</td>
<td>43.00 degrees C (Hysteresis:41.00 degrees C)</td>
</tr>
<tr>
<td>Lower non-critical Threshold:</td>
<td>3.00 degrees C (Hysteresis:5.00 degrees C)</td>
</tr>
<tr>
<td>Lower critical Threshold:</td>
<td>0.00 degrees C (Hysteresis:2.00 degrees C)</td>
</tr>
<tr>
<td>Lower non-recoverable Threshold:</td>
<td>---</td>
</tr>
</tbody>
</table>

2.2.46 getConsoleLog

Syntax:
dscsi getConsoleLog Component

Description:
Displays the console log of a specified component.

Options:

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

Output:
Displays the console log of a specified component.
2.2.47 setBmcIpSync

Syntax:

dscli setBmcIpSync Component Value

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

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

Value
Specify a new value to be set.
0 Disable
1 Enable

TIP:
- If this command is sent to NEC ESMPRO Agent Extension on the managed component that contains the BMC that uses an exclusive LAN port (Management LAN Port), the command end successfully, but nothing is set.

2.2.48 getBmcIpSync

Syntax:

dscli getBmcIpSync Component

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

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

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

| Agent Config (BMC IP Sync) | Enable |
2.2.49 getBladeSlotId

Syntax:
dscil getBladeSlotId Component

Description:
Execute 2.2.41 getIpmiInfo command previously.
Obtains enclosure ID and slot ID of a managed component if the managed server is a blade. The enclosure ID is for identifying the blade assembly unit where the blade is installed. The slot ID shows the installation position inside the blade assembly unit where the slot is installed.

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

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

<table>
<thead>
<tr>
<th>Enclosure ID: 0040000000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slot ID: 2</td>
</tr>
</tbody>
</table>

2.2.50 deleteBmcUser

Syntax:
dscil deleteBmcUser Component UserId

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

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

UserId
  Specify the number allocated to the BMC user.
2.2.51 getBmcUserList

Syntax:
dscli getBmcUserList Component

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

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

Output:
The following shows an example:

<table>
<thead>
<tr>
<th>No.</th>
<th>User</th>
<th>User Name</th>
<th>Privilege</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Enable</td>
<td>USERNAME1</td>
<td>Administrator</td>
</tr>
<tr>
<td>2</td>
<td>Enable</td>
<td>USERNAME2</td>
<td>Operator</td>
</tr>
<tr>
<td>3</td>
<td>Disable</td>
<td>USERNAME3</td>
<td>User</td>
</tr>
</tbody>
</table>
2.2.52 setBmcUserInfo

Syntax:
```
dscli setBmcUserInfo Component UserId KeyName Values
```

Description:
Changes the user account information for the BMC configuration

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

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

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

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

<table>
<thead>
<tr>
<th>KeyName</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>USER</td>
<td>0: Disabled 1: Enabled</td>
</tr>
<tr>
<td>USER_NAME</td>
<td>Up to 15 characters(*1)</td>
</tr>
<tr>
<td>USER_PASSWORD</td>
<td>Up to 19 characters(*2)</td>
</tr>
<tr>
<td>USER_PRIVILEGE</td>
<td>0: User 1: Operator 2: Administrator</td>
</tr>
</tbody>
</table>

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

2.2.53 getBmcUserInfo

Syntax:
```
dscli getBmcUserInfo Component UserId
```

Description:
Gets the user account information for the BMC configuration

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

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

Output:
The following shows an example:
```
USER             : true
USER_NAME       : USERNAME2
USER_PRIVILEGE : Operator
```
2.2.54 setPowerRestorePolicy

Syntax:
dscli setPowerRestorePolicy Component Policy

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

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

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

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

2.2.55 getPowerRestorePolicy

Syntax:
dscli getPowerRestorePolicy Component

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

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

Output:
The following shows an example.

<table>
<thead>
<tr>
<th>Policy</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAY_OFF</td>
</tr>
</tbody>
</table>
2.2.56 getSystemFtLamp

Syntax:
dscli getSystemFtLamp Component

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

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

Output:
There are the following states of the System FT LED.

<table>
<thead>
<tr>
<th>State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Power off or simplex</td>
</tr>
<tr>
<td>GREEN_ON</td>
<td>Duplex</td>
</tr>
<tr>
<td>GREEN_BLINK</td>
<td>Split mode</td>
</tr>
</tbody>
</table>
2.3 EM Card Management Commands

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

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

2.3.1 getEmCardList

Syntax:
dscli getEmCardList [/d]

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

Options:
/d
If you specify “/d” option, the EM cards list indicates EM card name and GUID.

Output:
The following shows an example.

If “/d” option is not specified:

<table>
<thead>
<tr>
<th>EM0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM0002</td>
</tr>
</tbody>
</table>

If “/d” option is specified:

<table>
<thead>
<tr>
<th>EM0001</th>
<th>GUID 01b21dd2:1dd2:11b2:2fa4:003013630cc5</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM0002</td>
<td>GUID 01b21dd2:1dd2:11b2:49bd:003013630cc0</td>
</tr>
</tbody>
</table>
2.3.2  getEmActiveState

**Syntax:**

dscli getEmActiveState EmCard

**Description:**
Displays state of active/standby of the specified EM card.

**Options:**

- **EmCard**
  Specify the name of EM card.

**Output:**
There are the following states of EM card

- **Active** active
- **Standby** standby

2.3.3  identifyEm

**Syntax:**

dscli identifyEm EmCard [/x SwmSlotNumber]

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

**Options:**

- **EmCard**
  Specify the name of the EM card.

- **/x SwmSlotNumber**
  Specify the slot number of the switch module, when you want to turn on Unit ID lamp of the switch module that is managed by the EM card.
2.3.4 getEmStatusLamp

Syntax:

dsci getEmStatusLamp EmCard [/x SwmSlotNumber]

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

Options:

EmCard
Specify the name of the EM card.

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

Output:
There are the following states of the STATUS lamp

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEN_ON</td>
<td>Turn on green.</td>
</tr>
<tr>
<td>GREEN_BLINK</td>
<td>Blink green.</td>
</tr>
<tr>
<td>AMBER_BLINK</td>
<td>Blink amber.</td>
</tr>
<tr>
<td>RED_BLINK</td>
<td>Blink red.</td>
</tr>
</tbody>
</table>
2.4 Chassis Management Commands

2.4.1 getBladeEnclosureList

Syntax:

```
 dscli getBladeEnclosureList
```

Description:
Displays the list of the blade enclosure in which the managed component or the EM card registered on NEC ESMPRO Manager is installed. The list includes the system that has one or more components in a chassis.

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

2.4.2 getChassisSlotState

Syntax:

```
 dscli getChassisSlotState ChassisName
```

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

Options:

```
 ChassisName
       Specify the chassis name.
```

Output:
Following information is shown for each slot.

<table>
<thead>
<tr>
<th>Contents</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>slot number</td>
<td>Displays the slot number.</td>
</tr>
<tr>
<td></td>
<td>Displays two slot numbers when the installed blade has double wide or full height.</td>
</tr>
<tr>
<td>slot state</td>
<td>component name</td>
</tr>
<tr>
<td></td>
<td>Displays the component name when the component is installed in the slot and it is registered on NEC ESMPRO Manager. For double wide blade, displays “(Double-wide)” following the component name. For full height blade, displays “(Full-height)” following the component name.</td>
</tr>
<tr>
<td>Installed</td>
<td>Displays “Installed” when the switch module is installed in the slot.</td>
</tr>
<tr>
<td>Not registered</td>
<td>Displays “Not registered” when the component is installed in the slot and it is not registered on NEC ESMPRO Manager.</td>
</tr>
<tr>
<td>Not installed</td>
<td>Displays “Not Installed” when nothing is installed in the slot.</td>
</tr>
<tr>
<td>(blank)</td>
<td>Displays nothing if “Installed” and “Not Registered” cannot be distinguished.</td>
</tr>
</tbody>
</table>
The following shows an example.

<table>
<thead>
<tr>
<th>CPU Blade:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: SERVER_0001</td>
</tr>
<tr>
<td>2: SERVER_0002</td>
</tr>
<tr>
<td>3,4: SERVER_0003 (Double-wide)</td>
</tr>
<tr>
<td>5: Not installed</td>
</tr>
<tr>
<td>6: Not registered</td>
</tr>
<tr>
<td>7: Not installed</td>
</tr>
<tr>
<td>8: Not registered</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EM Card:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.EM0001</td>
</tr>
<tr>
<td>2.EM0002</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Switch Module:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: Installed</td>
</tr>
<tr>
<td>2: Installed</td>
</tr>
<tr>
<td>3: Not installed</td>
</tr>
<tr>
<td>4: Not installed</td>
</tr>
<tr>
<td>5: Not installed</td>
</tr>
<tr>
<td>6: Not installed</td>
</tr>
</tbody>
</table>

### 2.4.3 getChassisInfo

**Syntax:**
dcli getChassisInfo ChassisName

**Description:**
Displays information on the specified chassis.

**Options:**
*ChassisName*

  Specify the chassis name.

**Output:**
Display information on the specified chassis.

<table>
<thead>
<tr>
<th>Item Name</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chassis Name</td>
<td>Name of the chassis.</td>
</tr>
<tr>
<td>Comments</td>
<td>Comments of the chassis</td>
</tr>
<tr>
<td>Rack Name</td>
<td>Displays the rack name which is set on the EM card.</td>
</tr>
<tr>
<td>Rack ID</td>
<td>Displays the rack id which is set on the EM card.</td>
</tr>
<tr>
<td>Unit Name</td>
<td>Displays the unit name which is set on the EM card.</td>
</tr>
<tr>
<td>Serial Number</td>
<td>Displays the chassis serial number of the blade enclosure.</td>
</tr>
</tbody>
</table>
2.4.4 setChassisProperty

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

Description:
Sets the chassis property of a chassis.

Options:
- **ChassisName**
  Specify the chassis name.

- **PropertyName**
  Specify the name of the chassis property. See the list below.

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

<table>
<thead>
<tr>
<th>PropertyName</th>
<th>Contents</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHASSIS_NAME</td>
<td>Specify the name of the chassis.</td>
<td>Up to 32 characters.</td>
</tr>
<tr>
<td>CHASSIS COMMENT</td>
<td>Enter the comments of the chassis.</td>
<td>Up to 100 characters.</td>
</tr>
</tbody>
</table>

**TIP:**
- The name of chassis that is already registered cannot be specified to `ChassisName`.

2.4.5 getChassisProperty

Syntax:
```
dscli getChassisProperty ChassisName PropertyName
```

Description:
Displays the property of the specified chassis.

Options:
- **ChassisName**
  Specify the chassis name.

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

Output:
Display the property of a chassis.
2.4.6 setBladeAutoSetting

Syntax:
dscli setBladeAutoSetting ChassisName SlotNumber PropertyName Value

Description:
This command is effective only to the chassis in which EM card can be installed. If NEC ESM PRO Manager detects new CPU blade installed on the chassis, NEC ESM PRO Manager configures BMC on the CPU blade (managed component) through the EM card to control the managed component remotely. Set information to perform the configuration of BMC on CPU blade and the component registration automatically.

Options:
ChassisName
   Specify the chassis name.

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

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

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

<table>
<thead>
<tr>
<th>PropertyName</th>
<th>Contents</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTH_KEY</td>
<td>Specify the authentication key that is configured on BMC.</td>
<td>Up to 16 characters</td>
</tr>
<tr>
<td>RECONFIGURE_BMC</td>
<td>&quot;Enabled&quot; means that NEC ESM PRO Manager executes BMC configuration not</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td>only new installed CPU blade but also all CPU blade. “Disabled” means that</td>
<td>1: Enabled</td>
</tr>
<tr>
<td></td>
<td>NEC ESM PRO Manager executes BMC configuration only if BMC on new installed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CPU blade has not been configured.</td>
<td></td>
</tr>
<tr>
<td>REWRITE_IP_ADDRESSES</td>
<td>IP address of the BMC on the CPU blade may be obtained by DHCP even</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td>through the BMC configuration has not been executed. If this option is</td>
<td>1: Enabled</td>
</tr>
<tr>
<td></td>
<td>set “Enable”, NEC ESM PRO Manager always update the IP address when BMC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>configuration is executed.</td>
<td></td>
</tr>
<tr>
<td>DHCP</td>
<td>BMC automatically acquires IP address from DHCP.</td>
<td>0: Disabled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1: Enabled</td>
</tr>
<tr>
<td>IP_ADDRESS</td>
<td>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.</td>
<td>IP Address form</td>
</tr>
<tr>
<td>SUBNET_MASK</td>
<td>Specify the subnet mask.</td>
<td>IP Address form</td>
</tr>
<tr>
<td>DEFAULT_GATEWAY</td>
<td>Specify the default gateway.</td>
<td>IP Address form</td>
</tr>
<tr>
<td>ALERT_RECEIVER_IP_ADDRESS</td>
<td>Specify the alert receiver(1)/IP address of PC for management.</td>
<td>IP Address form</td>
</tr>
</tbody>
</table>
2.4.7 getBladeAutoSetting

Syntax:
dscli getBladeAutoSetting ChassisName SlotNumber

Description:
This command is effective only to the chassis that can install the EM card.
Display information to perform configuration of BMC of a CPU blade and component registration automatically when NEC ESMPRO Manager detects new CPU blade installed on the chassis.
See 2.4.6 setBladeAutoSetting for each information details.

Options:
ChassisName
    Specify the chassis name.

SlotNumber
    Specify the slot number of CPU blade.

Output:
The following shows an example.

<table>
<thead>
<tr>
<th>RECONFIGURE_BMC:Disable</th>
</tr>
</thead>
<tbody>
<tr>
<td>REWRITE_IP_ADDRESS:Disable</td>
</tr>
<tr>
<td>DHCP:Enable</td>
</tr>
<tr>
<td>ALERT_RECEIVER_IP_ADDRESS:192.168.14.18</td>
</tr>
</tbody>
</table>
2.5 Communication Management Commands

2.5.1 connect

Syntax:
```
dscli connect Component
```

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

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

2.5.2 disconnect

Syntax:
```
dscli disconnect
```

Description:
Disconnects the currently connected line.

2.5.3 getConnectionStatus

Syntax:
```
dscli getConnectionStatus
```

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

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

2.6.1 setOption

Syntax:
dscli setOption OptionName Value

Description:
Sets an option of the NEC ESMPRO Manager.

Options:

OptionName

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

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

<table>
<thead>
<tr>
<th>OptionName</th>
<th>Contents</th>
<th>Value</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMC_RETRY_COUNT</td>
<td>Specify Retry count for communicating to BMC on a managed component.</td>
<td>0-10</td>
<td>5</td>
</tr>
<tr>
<td>BMC_TIMEOUT</td>
<td>Communication Timeout (in seconds) to BMC on a managed component.</td>
<td>1-15</td>
<td>5</td>
</tr>
<tr>
<td>BMC_SOURCE_PORT</td>
<td>Specify a UDP port number for communicating to BMC on a managed component.</td>
<td>1025-65535</td>
<td>47117</td>
</tr>
<tr>
<td>CUI_NO_RESPONSE_TIMEOUT</td>
<td>Specify times (in seconds) until the remote console is disconnected due to a communication timeout.</td>
<td>20-1800</td>
<td>60</td>
</tr>
<tr>
<td>CUI_SYS_RQ_KEY</td>
<td>Specify alias for SysRq key on CUI remote console.</td>
<td>&quot;&quot;: Not specified &quot;Q&quot;: Ctrl+Alt+Q &quot;X&quot;: Ctrl+Alt+X</td>
<td>&quot;&quot;</td>
</tr>
<tr>
<td>HISTORY_LOG_NUMBER_OF_RECORDS</td>
<td>Specify maximum number of application logs.</td>
<td>2000-10000</td>
<td>2000</td>
</tr>
<tr>
<td>MODEM_PORT_NUMBER</td>
<td>Specify a serial port on NEC ESMPRO Manager component.</td>
<td>1-8</td>
<td>1</td>
</tr>
<tr>
<td>MONITORING_ENABLE</td>
<td>Determine whether to enable/disable the component monitoring function that monitors the power status and the STATUS lamp on each managed component.</td>
<td>0: Disabled 1: Enabled</td>
<td>1</td>
</tr>
<tr>
<td>MONITORING_AUTO_UPDATE_INTERVAL</td>
<td>Specify interval times (in seconds) to update automatically the displays of component status.</td>
<td>1-60</td>
<td>5</td>
</tr>
<tr>
<td>RC_POWER_CONTROL_INTERVAL_MILLIS</td>
<td>Specify interval times (in milliseconds) at which power control is performed continuously for multiple components.</td>
<td>0-5000</td>
<td>500</td>
</tr>
<tr>
<td>RMI_PORT</td>
<td>Specify a TCP port number for RMI.</td>
<td>1024 - 65535</td>
<td>1099</td>
</tr>
</tbody>
</table>
2.6.2 getOption

Syntax:
dxcli getOption OptionName

Description:
Displays an option of the NEC ESMPRO Manager.

Options:
OptionName

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

Output:
Display the value of the specified option.

2.6.3 getPermitIpAddrList

Syntax:
dxcli getPermitIpAddrList

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

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

<table>
<thead>
<tr>
<th>No.</th>
<th>IP Address Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>192.168.0.1 - 192.168.0.254</td>
</tr>
<tr>
<td>2</td>
<td>192.168.1.10</td>
</tr>
<tr>
<td>3</td>
<td>192.168.2.10</td>
</tr>
</tbody>
</table>
2.6.4 isPermitIpAddr

Syntax:
\[ \text{dscli isPermitIpAddr CheckIpAddr} \]

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

Options:
- \text{CheckIpAddr}
  Specify IP address.

Output:
Displays the result of IP address check.
- \text{OK} means this IP address is permitted
- \text{NG} means this IP address is not permitted.

2.6.5 addPermitIpAddr

Syntax:
\[ \text{dscli addPermitIpAddr StartIpAddr [EndIpAddr]} \]

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

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

Options:
- \text{StartIpAddr}
  Specify the start IP address of IP address range to permit login.
- \text{EndIpAddr}
  Specify the end IP address of IP address range. If this option is omitted, it will be permitted the single IP address that is specified in the \text{StartIpAddr} option.

2.6.6 removePermitIpAddr

Syntax:
\[ \text{dscli removePermitIpAddr StartIpAddr [EndIpAddr]} \]

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

Options:
- \text{StartIpAddr}
  Specify the start IP address of IP address range.
- \text{EndIpAddr}
  Specify the end IP address of IP address range.
2.6.7 clearPermitIpAddr

Syntax:

dcli clearPermitIpAddr

Description:
Removes all IP address ranges in which login from a Web client is permitted.
2.7 User Management Commands

2.7.1 createUser

Syntax:
dscli createUser UserName Password

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

Options:
UserName
Specify a new username. Up to 16 characters.

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

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

2.7.2 deleteUser

Syntax:
dscli deleteUser UserName

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

Options:
UserName
Specify a name of the user.

2.7.3 getUserList

Syntax:
dscli getUserList

Description:
Displays the list of registered user names and levels. “Administrator” or “Operator” is displayed as the user level.

Output:
The following shows an example:

<table>
<thead>
<tr>
<th>Admin</th>
<th>Administrator</th>
</tr>
</thead>
<tbody>
<tr>
<td>User1</td>
<td>Operator</td>
</tr>
<tr>
<td>User2</td>
<td>Operator</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2.7.4 setUserProperty

Syntax:
dscli setUserProperty UserName PropertyName Value

Description:
Sets a property of a specified user.

Options:
UserName
Specify a user name.

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

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

<table>
<thead>
<tr>
<th>PropertyName</th>
<th>Contents</th>
<th>Value</th>
<th>Default</th>
<th>Administraotr</th>
<th>Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>USER_NAME</td>
<td>Specify the username</td>
<td>Up to 16 characters.</td>
<td>(Blank)</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>USER_PASSWORD</td>
<td>Specify the login password</td>
<td>6-16 characters.</td>
<td>(Blank)</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>USER_COMMENT</td>
<td>Specify the comment about the user.</td>
<td>Up to 100 characters.</td>
<td>(Blank)</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>UL_POWER_ON</td>
<td>Specify the enable/disable of Power ON.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_POWER_OFF</td>
<td>Specify the enable/disable of Power OFF function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_RESET</td>
<td>Specify the enable/disable of Reset function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_POWER_CYCLE</td>
<td>Specify the enable/disable of Power Cycle function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_SHUTDOWN</td>
<td>Specify the enable/disable of Shutdown OS function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_DUMP</td>
<td>Specify the enable/disable of DUMP switch function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_SEL_CLEAR</td>
<td>Specify the enable/disable of Clear System Event Log function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_BMC_REMOTE</td>
<td>Specify the enable/disable of Change BMC Configuration function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_CONFIG_CREATE</td>
<td>Specify the enable/disable of Add Component function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_CONFIG_CHANGE_DELETE</td>
<td>Specify the enable/disable of Set Component Property function and Delete Component function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_REMOTE_CONSOLE</td>
<td>Specify the enable/disable of Remote Console function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_SCHEDULE</td>
<td>Specify the enable/disable of Set Schedule function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>PropertyName</td>
<td>Contents</td>
<td>Value</td>
<td>Default</td>
<td>Administrator</td>
<td>Operator</td>
</tr>
<tr>
<td>---------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------------</td>
<td>---------</td>
<td>---------------</td>
<td>----------</td>
</tr>
<tr>
<td>UL_REMOTE_BATCH</td>
<td>Specify the enable/disable of Remote Batch function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_SET_POWER.RestORE_DELAY</td>
<td>Specify the enable/disable of Change Power Option Setting.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_SET_AGENT_SETTING</td>
<td>Specify the enable/disable of Change Agent Setting.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_SET_CONSOLE_LOG</td>
<td>Specify the enable/disable of Change Console log Setting.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_SET_ENVIRONMENT_OPTION</td>
<td>Specify the enable/disable of Change Environment Setting.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_SET_BLADE_AUTO_SETTING</td>
<td>Specify the enable/disable of Change CPU Blade Auto Setting.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_ELECTRIC_POWER_MONITORING</td>
<td>Specify the enable/disable of Start or Stop Read Power Value.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_SET_SERVER_DOWN_MONITORING</td>
<td>Specify the enable/disable of Change Component Monitoring function.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
<tr>
<td>UL_MODULE_UPDATE_MAINTENANCE</td>
<td>Specify the enable/disable of Change maintenance and update of CPU/PCI module.</td>
<td>0: Disabled 1: Enabled</td>
<td>0</td>
<td>NG</td>
<td>OK</td>
</tr>
</tbody>
</table>

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

### 2.7.5 getUserProperty

**Syntax:**

dscli getUserProperty PropertyName

**Description:**
Displays a property of a specified user.

**Options:**

**UserName**
- Specify a user name.

**PropertyNameName**
- Specify a property name. See 2.7.4 setUserProperty. But “USER_PASSWORD” property is not displayed.

**Output:**
Displays a property of a specified user.
2.8 Other Commands

2.8.1 getApplicationLog

Syntax:
dscli getApplicationLog [Number]

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

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

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

2.8.2 about

Syntax:
dscli about

Description:
Displays version information of NEC ESMPRO Manager.

Output:
Displays version information of NEC ESMPRO Manager.

2.8.3 help

Syntax:
dscli help [CommandName]

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

Options:
CommandName
Specify a command name.

Output:
Display the command list or the help information of the specified command.
Appendix A. List of Support Commands for BMC (Other) or iLO component

A user can execute the following command set against BMC (Other) or iLO components via command line interface of NEC ESMPRO Manager.
See "NEC ESMPRO Manager Ver.6 Setup Guide" for more information about BMC (Other) or iLO components.

<table>
<thead>
<tr>
<th>Command</th>
<th>BMC (Other)</th>
<th>iLO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BMC</td>
<td>CMC</td>
</tr>
<tr>
<td>2.1.1 getList</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.1.2 createGroup</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.1.3 deleteGroup</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.1.4 moveGroup</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.1.5 setGroupProperty</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.1.6 setGroupProperty</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.1.7 setGroupStatus</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.1.8 groupPowerOn</td>
<td>supported</td>
<td>-</td>
</tr>
<tr>
<td>2.1.9 groupPowerOff</td>
<td>supported</td>
<td>-</td>
</tr>
<tr>
<td>2.1.10 groupReset</td>
<td>supported</td>
<td>-</td>
</tr>
<tr>
<td>2.1.11 groupPowerCycle</td>
<td>supported</td>
<td>-</td>
</tr>
<tr>
<td>2.1.12 groupShutdownOs</td>
<td>supported</td>
<td>-</td>
</tr>
<tr>
<td>2.1.13 groupSetPowerRestoreDelay</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.1.14 groupGetRemoteKvmLicense</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.1 getServerList</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.2 getServerNameByMacAddr</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.3 getServerNameByGuid</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.4 findNewServer</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.5 findNewServerNetAddr</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.6 createServer</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.7 deleteServer</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.8 checkConnection</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.9 setServerProperty</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.10 moveServer</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.11 getServerGroup</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.12 setCurrentPort</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.13 getServerProperty</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.14 getServerInfo</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.15 getDeviceId</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.16 getGid</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.17 getProductName</td>
<td>supported</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.18 getSoftwareInfo</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.19 setShutdownPolicy</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.20 getShutdownPolicy</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.21 setPowerRestoreDelay</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.22 getPowerRestoreDelay</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.23 setBmcInfo</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.24 getBmcInfo</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.25 setAuthKey</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.26 setSensorLevel</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2.2.27 getSensorLevel</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Command</td>
<td>BMC (Other)</td>
<td>iLO</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
<td>-----</td>
</tr>
<tr>
<td>2.2.28</td>
<td>getAgentExtensionLog</td>
<td>-</td>
</tr>
<tr>
<td>2.2.29</td>
<td>testAlert</td>
<td>-</td>
</tr>
<tr>
<td>2.2.30</td>
<td>getTestAlertStatus</td>
<td>-</td>
</tr>
<tr>
<td>2.2.31</td>
<td>getServerStatus</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.32</td>
<td>getPowerStatus</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.33</td>
<td>getStatusLamp</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.34</td>
<td>getPanelInfo</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.35</td>
<td>powerOn</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.36</td>
<td>powerOff</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.37</td>
<td>reset</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.38</td>
<td>powerCycle</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.39</td>
<td>shutdownOs</td>
<td>Supported</td>
</tr>
<tr>
<td>2.2.40</td>
<td>dumpSwitch</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.41</td>
<td>clearSel</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.42</td>
<td>identifyChassis</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.43</td>
<td>getIpmiInfo</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.44</td>
<td>getSensorList</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.45</td>
<td>getSensorStatus</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.46</td>
<td>getConsoleLog</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.47</td>
<td>setBmcIpSync</td>
<td>-</td>
</tr>
<tr>
<td>2.2.48</td>
<td>getBmcIpSync</td>
<td>-</td>
</tr>
<tr>
<td>2.2.49</td>
<td>getBladeSlotId</td>
<td>-</td>
</tr>
<tr>
<td>2.2.50</td>
<td>deleteBmcUser</td>
<td>-</td>
</tr>
<tr>
<td>2.2.51</td>
<td>getBmcUserList</td>
<td>-</td>
</tr>
<tr>
<td>2.2.52</td>
<td>setBmcUserInfo</td>
<td>-</td>
</tr>
<tr>
<td>2.2.53</td>
<td>getBmcUserInfo</td>
<td>-</td>
</tr>
<tr>
<td>2.2.54</td>
<td>setPowerRestorePolicy</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.55</td>
<td>getPowerRestorePolicy</td>
<td>supported</td>
</tr>
<tr>
<td>2.2.56</td>
<td>getSystemFtLamp</td>
<td>-</td>
</tr>
<tr>
<td>2.3.1</td>
<td>getEmCardList</td>
<td>-</td>
</tr>
<tr>
<td>2.3.2</td>
<td>getEmActiveState</td>
<td>-</td>
</tr>
<tr>
<td>2.3.3</td>
<td>identifyEm</td>
<td>-</td>
</tr>
<tr>
<td>2.3.4</td>
<td>getEmStatusLamp</td>
<td>-</td>
</tr>
<tr>
<td>2.4.1</td>
<td>getBladeEnclosureList</td>
<td>supported</td>
</tr>
<tr>
<td>2.4.2</td>
<td>getChassisSlotState</td>
<td>supported</td>
</tr>
<tr>
<td>2.4.3</td>
<td>getChassisInfo</td>
<td>supported</td>
</tr>
<tr>
<td>2.4.4</td>
<td>setChassisProperty</td>
<td>supported</td>
</tr>
<tr>
<td>2.4.5</td>
<td>getChassisProperty</td>
<td>supported</td>
</tr>
<tr>
<td>2.4.6</td>
<td>setBladeAutoSetting</td>
<td>-</td>
</tr>
<tr>
<td>2.4.7</td>
<td>getBladeAutoSetting</td>
<td>-</td>
</tr>
<tr>
<td>2.5.1</td>
<td>connect</td>
<td>-</td>
</tr>
<tr>
<td>2.5.2</td>
<td>disconnect</td>
<td>-</td>
</tr>
<tr>
<td>2.5.3</td>
<td>getConnectionStatus</td>
<td>-</td>
</tr>
</tbody>
</table>

(*1) Supports only forced shutdown.

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