



**EXPRESSCLUSTER X SingleServerSafe 5.2 for Windows
Operation Guide**

Release 1

NEC Corporation

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1.1 Who Should Use This Guide

The *Operation Guide* is intended for system administrators who will operate and maintain an introduced system. It describes how to operate EXPRESSCLUSTER X SingleServerSafe.

1.2 How This Guide Is Organized

- *2. EXPRESSCLUSTER X SingleServerSafe command reference*: Describes the usable commands in EXPRESSCLUSTER X SingleServerSafe.
- *3. Notes and restrictions*: Provides information on known problems and restrictions.
- *4. Error messages*: Lists and describes error messages you might encounter when operating EXPRESSCLUSTER X SingleServerSafe.

1.3 Terms Used in This Guide

EXPRESSCLUSTER X SingleServerSafe, which is described in this guide, uses windows and commands common to those of the clustering software EXPRESSCLUSTER X to ensure high compatibility with EXPRESSCLUSTER X in terms of operation and other aspects. Therefore, cluster-related terms are used in parts of the guide.

The terms used in this guide are defined below.

Cluster, cluster system A single server system using EXPRESSCLUSTER X SingleServerSafe

Cluster shutdown, reboot Shutdown or reboot of a system using EXPRESSCLUSTER X SingleServerSafe

Cluster resource A resource used in EXPRESSCLUSTER X SingleServerSafe

Cluster object A resource object used in EXPRESSCLUSTER X SingleServerSafe

Failover group A group of group resources (such as applications and services) used in EXPRESSCLUSTER X SingleServerSafe

1.4 EXPRESSCLUSTER X SingleServerSafe Documentation Set

The EXPRESSCLUSTER X SingleServerSafe manuals consist of the three guides below. The title and purpose of each guide is described below:

EXPRESSCLUSTER X SingleServerSafe Installation Guide

This guide is intended for system engineers who intend to introduce a system using EXPRESSCLUSTER X SingleServerSafe and describes how to install EXPRESSCLUSTER X SingleServerSafe.

EXPRESSCLUSTER X SingleServerSafe Configuration Guide

This guide is intended for system engineers who intend to introduce a system using EXPRESSCLUSTER X SingleServerSafe and system administrators who will operate and maintain the introduced system. It describes how to set up EXPRESSCLUSTER X SingleServerSafe.

EXPRESSCLUSTER X SingleServerSafe Operation Guide

This guide is intended for system administrators who will operate and maintain an introduced system that uses EXPRESSCLUSTER X SingleServerSafe. It describes how to operate EXPRESSCLUSTER X SingleServerSafe.

1.5 Conventions

In this guide, **Note**, **Important**, **See also** are used as follows:

Note: Used when the information given is important, but not related to the data loss and damage to the system and machine.

Important: Used when the information given is necessary to avoid the data loss and damage to the system and machine.

See also:

Used to describe the location of the information given at the reference destination.

The following conventions are used in this guide.

Convention	Usage	Example
Bold	Indicates graphical objects, such as fields, list boxes, menu selections, buttons, labels, icons, etc.	In User Name, type your name. On the File menu, click Open Database.
Angled bracket within the command line	Indicates that the value specified inside of the angled bracket can be omitted.	<code>clpstat -s [-h <i>host_name</i>]</code>
Monospace	Indicates path names, commands, system output (message, prompt, etc), directory, file names, functions and parameters.	<code>c:\Program files\EXPRESSCLUSTER</code>
bold	Indicates the value that a user actually enters from a command line.	Enter the following: clpcl -s -a
<i>italic</i>	Indicates that users should replace italicized part with values that they are actually working with.	<code>clpstat -s [-h <i>host_name</i>]</code>



In the figures of this guide, this icon represents EXPRESSCLUSTER X SingleServerSafe.

1.6 Contacting NEC

For the latest product information, visit our website below:

<https://www.nec.com/global/prod/expresscluster/>

EXPRESSCLUSTER X SINGLESERVERSAFE COMMAND REFERENCE

This chapter describes the commands available with EXPRESSCLUSTER X SingleServerSafe.

EXPRESSCLUSTER X SingleServerSafe uses commands common to those of the clustering software EXPRESSCLUSTER X to ensure high compatibility with EXPRESSCLUSTER X in terms of operation and other aspects.

This chapter covers:

- 2.1. *Operating the cluster from the command line*
- 2.2. *EXPRESSCLUSTER commands*
- 2.3. *Displaying the status (clpstat command)*
- 2.4. *Operating the service (clppl command)*
- 2.5. *Shutting down the server (clpstdn command)*
- 2.6. *Operating groups (clpgrp command)*
- 2.7. *Collecting logs (clplogcc command)*
- 2.8. *Applying and backing up configuration data (clpcfctrl command)*
- 2.9. *Adjusting time-out temporarily (clptoratio command)*
- 2.10. *Modifying the log level and size (clplogcf command)*
- 2.11. *Managing licenses (clplcncs command)*
- 2.12. *Outputting messages (clplogcmd command)*
- 2.13. *Controlling monitor resources (clpmonctrl command)*
- 2.14. *Controlling group resources (clprsc command)*
- 2.15. *Requesting processing to cluster servers (clprexec command)*
- 2.16. *Controlling reboot count (clpregctrl command)*
- 2.17. *Checking the process health (clphealthchk command)*
- 2.18. *Setting an action for OS shutdown initiated by other than cluster service (clpstdncnf command)*
- 2.19. *Displaying the cluster statistics information (clpperfc command)*
- 2.20. *Checking the cluster configuration information (clpcfchk command)*
- 2.21. *Adding a firewall rule (clpfwctrl command)*

2.1 Operating the cluster from the command line

EXPRESSCLUSTER X SingleServerSafe provides various commands for performing operations from the command prompt. These commands are useful in such cases as when you are setting up a cluster or cannot use the Cluster WebUI. You can perform a greater number of operations by using the command line than by using the Cluster WebUI.

Note: If the monitor resource detects an error when you have specified a group resource (such as an application resource) as a recovery target in the settings for error detection by a monitor resource, do not perform the following control operations for any service or group by using a command or the Cluster WebUI during recovery (reactivation -> final action).

- Stopping or suspending a service
- Starting or stopping a group

If you perform the above-mentioned operations while recovery caused by detection of an error by a monitor resource is in progress, other group resources of the group with an error may not stop.

However, you can perform them when the final action is completed.

2.2 EXPRESSCLUSTER commands

- Commands for construction

Command	Explanation	Refer to
clpcfctrl.exe	Applies the configuration data created by the Cluster WebUI to servers. Backs up the configuration data to be used by the Cluster WebUI.	2.8. <i>Applying and backing up configuration data (clpcfctrl command)</i>
clplcncsc.exe	Manages the product or trial version license of this product.	2.11. <i>Managing licenses (clplcncsc command)</i>
clpcfchk.exe	Checks cluster configuration data.	2.20. <i>Checking the cluster configuration information (clpcfchk command)</i>
clpfwctrl.bat	Adds a firewall rule.	2.21. <i>Adding a firewall rule (clpfwctrl command)</i>

- Commands for showing status

Command	Explanation	Refer to
clpstat.exe	Displays the status and configuration data of EXPRESSCLUSTER X SingleServer-Safe.	2.3. <i>Displaying the status (clpstat command)</i>
clphealthchk.exe	Check the process health.	2.17. <i>Checking the process health (clphealthchk command)</i>

- Commands for operation

Command	Explanation	Refer to
clpcl.exe	Starts, stops, suspends, or resumes the service.	2.4. <i>Operating the service (clpcl command)</i>
clpstdn.exe	Stops the service and shuts down a server.	2.5. <i>Shutting down the server (clpstdn command)</i>
clpgrp.exe	Starts and stops groups.	2.6. <i>Operating groups (clpgrp command)</i>
clptoratio.exe	Extends or displays the timeout values.	2.9. <i>Adjusting time-out temporarily (clptoratio command)</i>
clpmonctrl.exe	Suspends or resumes monitor resources.	2.13. <i>Controlling monitor resources (clpmonctrl command)</i>
clprsc.exe	Suspends or resumes group resources.	2.14. <i>Controlling group resources (clprsc command)</i>
clprexec.exe	Requests a server to execute a process.	2.15. <i>Requesting processing to cluster servers (clprexec command)</i>
clpregctrl.exe	Controls the reboot count limitation.	2.16. <i>Controlling reboot count (clpregctrl command)</i>

- Commands for logs

Command	Explanation	Refer to
clplogcc.exe	Collects logs and OS information.	<i>2.7. Collecting logs (clplogcc command)</i>
clplogcf.exe	Changes and displays the log level and log output file size.	<i>2.10. Modifying the log level and size (clplogcf command)</i>
clpperfc.exe	Displays cluster statistical information on a group or a monitor resource.	<i>2.19. Displaying the cluster statistics information (clpperfc command)</i>

- Commands for scripts

Command	Explanation	Refer to
clplogcmd.exe	Write this command in the script resource script to output messages to any destination.	<i>2.12. Outputting messages (clplogcmd command)</i>

Important: The installation directory contains executable files and script files that are not listed in this guide. Do not execute these files by using any program other than EXPRESSCLUSTER X SingleServerSafe. Any problems caused by not using EXPRESSCLUSTER will not be supported.

2.3 Displaying the status (clpstat command)

Displays the status and configuration data of EXPRESSCLUSTER X SingleServerSafe.

Command line

```
clpstat -s [--long]
clpstat -g
clpstat -m
clpstat -i [--detail]
clpstat --cl [--detail]
clpstat --sv [--detail]
clpstat --grp [<grpname>] [--detail]
clpstat --rsc [<rscname>] [--detail]
clpstat --mon [<monname>] [--detail]
```

Description

Displays the status and configuration data of EXPRESSCLUSTER X SingleServerSafe.

Option

-s

None

Displays the status.

--long

Displays a name of the cluster name and resource name until the end.

-g

Displays groups.

-m

Displays the status of each monitor resource.

-i

Displays the overall configuration data.

--cl

Displays the configuration data.

--sv

Displays the server configuration information.

--grp [<grpname>]

Displays server group configuration information. By specifying the name of a server group, you can display only the information on the specified server group.

--rsc [<rscname>]

Displays group resource configuration information. By specifying the name of a group resource, you can display only the information on the specified group resource.

--mon [<monname>]

Displays monitor resource configuration information. By specifying the name of a monitor resource, you can display only the information on the specified monitor resource.

--detail

Displays more detailed information on the setting.

Return Value

0	Success
Other than the above	Failure

Remarks

According to the combination of options, configuration information shows information in various forms.

Notes

Run this command as a user with Administrator privileges .

When you run the clpstat command with the -s option or without any option, names such as a cluster or a resource will not be displayed halfway .

Error Messages

Message	Cause/Solution
Log in as administrator.	Log in as a user with Administrator privileges.
Invalid configuration file. Create valid cluster configuration data.	Create valid cluster configuration data by using the Cluster WebUI.
Invalid option.	Specify a valid option.
Could not connect to the server. Check if the cluster service is active	Check if the EXPRESSCLUSTER Information Base service is started.
Invalid server status.	Check if the EXPRESSCLUSTER service is operating.
Server is not active. Check if the cluster service is active.	Check if the EXPRESSCLUSTER service is operating.
Invalid server name. Specify a valid server name in the cluster.	Specify the valid server name in the cluster.
Invalid heartbeat resource name. Specify a valid heartbeat resource name in the cluster.	Specify the valid heart beat resource name in the cluster.
Invalid network partition resource name. Specify a valid network partition resource name in the cluster.	Specify the valid network partition resolution resource name in the cluster.
Invalid group name. Specify a valid group name in the cluster.	Specify the valid name of a group in the cluster.
Invalid group resource name. Specify a valid group resource name in the cluster.	Specify the valid name of a group resource in the cluster.
Invalid monitor resource name. Specify a valid monitor resource name in the cluster.	Specify the valid name of a monitor resource in the cluster.
Connection was lost. Check if there is a server where the cluster service is stopped in the cluster.	Check if there is any server on which the EXPRESSCLUSTER service has stopped in the cluster.
Invalid parameter.	An invalid value may be specified to command argument.
Internal communication timeout has occurred in the cluster server. If it occurs frequently, set the longer timeout.	A time-out occurred in the EXPRESSCLUSTER internal communication. If time-out keeps occurring, set the internal communication time-out longer.

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Message	Cause/Solution
Internal error. Check if memory or OS resources are sufficient.	Check if the memory or OS resource is sufficient.
The cluster is not created.	Create and apply the cluster configuration data.
Could not connect to the server. Internal error. Check if memory or OS resources are sufficient.	Check to see if the memory or OS resource is sufficient.
Cluster is stopped. Check if the cluster daemon is active.	Check if the cluster daemon is started.
Cluster is suspended. To display the cluster status, use --local option.	Cluster is suspended. To display the cluster status, use --local option.

2.4 Operating the service (clpcl command)

Operates the EXPRESSCLUSTER service.

Command line

```
clpcl -s
clpcl -t [-w <timeout>] [--apito <timeout>]
clpcl -r [-w <timeout>] [--apito <timeout>]
clpcl --return [--apito <timeout>]
clpcl --suspend [--force] [-w <timeout>] [--apito <timeout>]
clpcl --resume
```

Description

This command starts, stops, restarts, suspends, or resumes the EXPRESSCLUSTER service.

Option

-s
Starts the EXPRESSCLUSTER service.

-t
Stops the EXPRESSCLUSTER service.

-r
Restarts the EXPRESSCLUSTER service.

--return
Returns the EXPRESSCLUSTER service.

--suspend
Suspends the EXPRESSCLUSTER service.

--resume
Resumes the EXPRESSCLUSTER service.

-w <timeout>

When **-t**, **-r**, or **--suspend** option is used, specify the wait time in seconds that the `clpcl` command waits for the EXPRESSCLUSTER service to be completely stopped or suspended.

When *timeout* is not specified, it waits for unlimited time.

When "0" is specified for *timeout*, the command does not wait at all.

When the **-w** option is not specified (default), the command waits for twice the heartbeat timeout time (in seconds).

--force
When used with the **--suspend** option, this option forcefully suspends the service regardless of the server status.

--apito *timeout*

Specify the time in seconds to wait for the EXPRESSCLUSTER service to be stopped, restarted, or suspended (internal communication timeout). A value between 1 to 9999 can be specified.

When the **--apito** option is not specified, the command waits for 3600 seconds.

Return Value

0	Success
Other than 0	Failure

Remarks

When this command is executed with the `-s` or `--resume` option specified, it returns control when processing starts on the target server.

When this command is executed with the `-t` or `--suspend` option specified, it returns control after waiting for the processing to complete.

When this command is executed with the `-r` option specified, it returns control when the EXPRESSCLUSTER daemon restarts on the target server after stopping once.

Run the `clpstat` command to display the started or resumed status of the EXPRESSCLUSTER daemon.

Notes

This command must be executed by a user with the administrator privilege.

This command cannot be executed while a group is being started or stopped.

Before you suspend the EXPRESSCLUSTER service, the service must be running.

Before you resume the EXPRESSCLUSTER service, use the `clpstat` command to make sure that the service is not running.

- Suspend and Resume

When you want to update the configuration data or EXPRESSCLUSTER X SingleServerSafe, you can stop the EXPRESSCLUSTER service while continuing the operation. This status is called the *suspended status*.

Returning from the suspended status to normal status is called "resume."

The suspend and resume operations request processing of the server. The EXPRESSCLUSTER service must be active when you execute a suspend operation.

The following functions stop when the cluster is suspended because the EXPRESSCLUSTER service stops while active resources stay active.

- All monitor resources stop.
- You cannot perform operations on groups or group resources (start/stop).
- The following commands are disabled:
 - * `clpcl` options other than `--resume`
 - * `clpstdn`
 - * `clpgrp`
 - * `clptoratio`
 - * `clpmonctrl`

Error Messages

Message	Cause/Solution
Log in as administrator.	Log in as a user with Administrator privileges.
Invalid configuration file. Create valid cluster configuration data.	Create valid cluster configuration data using the Cluster WebUI.
Invalid option.	Specify a valid option
Performed stop processing to the stopped cluster service.	The stopping process has been executed to the stopped EXPRESSCLUSTER service.
Performed startup processing to the active cluster service.	The startup process has been executed to the activated EXPRESSCLUSTER service.
Command timeout.	The command timed out.
Failed to return the server. Check the status of failed server.	Failed to return the server. Check the status of the failed server.
Could not connect to the server. Check if the cluster service is active.	Check if the EXPRESSCLUSTER service is activated.
Failed to obtain the list of nodes. Specify a valid server name in the cluster.	Specify the valid name of a server in the cluster.
Failed to obtain the service name.	Failed to obtain the service name.
Failed to operate the service.	Failed to operate the service.
Resumed the cluster service that is not suspended.	Resumed the EXPRESSCLUSTER service that is not suspended.
invalid server status.	Check if the EXPRESSCLUSTER service is activated.
Server is busy. Check if this command is already run.	This command may be run already. Check it.
Server is not active. Check if the cluster service is active.	Check if the EXPRESSCLUSTER service is activated.
There is one or more servers of which cluster service is active. If you want to perform resume, check if there is any server whose cluster service is active in the cluster.	When you execute the command to resume, check if there is no server in the cluster on which the EXPRESSCLUSTER service is activated.
All servers must be activated. When suspending the server, the cluster service need to be active on all servers in the cluster.	When you execute the command to suspend, the EXPRESSCLUSTER service must be activated in all servers in the cluster.
Resume the server because there is one or more suspended servers in the cluster.	Execute the command to resume because some server(s) in the cluster is suspended.
Invalid server name. Specify a valid server name in the cluster.	Specify the valid name of a server in the cluster.
Connection was lost. Check if there is a server where the cluster service is stopped in the cluster.	Check if there is any server on which the EXPRESSCLUSTER service has stopped in the cluster.
invalid parameter.	The value specified as a command parameter may be invalid.
Internal communication timeout has occurred in the cluster server. If it occurs frequently, set the longer timeout.	A timeout occurred in the EXPRESSCLUSTER internal communication. If time-out keeps occurring, set the internal communication time-out longer.

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Table 2.7 – continued from previous page

Message	Cause/Solution
Processing failed on some servers. Check the status of failed servers.	If stopping process is executed to all servers, there is one or more servers on which the stopping process has failed. Check the status of the server(s) on which the stopping process has failed.
Internal error. Check if memory or OS resources are sufficient.	Check if the memory or OS resource is sufficient.

2.5 Shutting down the server (clpstdn command)

Shuts down the server.

Command line

clpstdn [-r]

Description

This command stops the EXPRESSCLUSTER service of the server and shuts down all servers.

Option

None

Servers are shut down.

-r

Shuts down and then reboots servers.

Return Value

0	Success
Other than 0	Failure

Remarks

This command returns control when the group stop processing is completed.

Notes

This command must be executed by a user with the administrator privilege.
This command cannot be executed while a group is being started or stopped.

Error messages

See "*Operating the service (clpcl command)*".

2.6 Operating groups (clpgrp command)

Operates groups.

Command line

```
clpgrp -s [<grpname>] [--apito timeout]  
clpgrp -t [<grpname>] [--apito timeout]
```

Description

Starts and stops groups.

Option

- s** [<grpname>]
When you specify the name of a group for *grpname*, only the specified group starts up. If no group name is specified, all groups start up.
- t** [<grpname>]
When you specify the name of a group for *grpname*, only the specified group stops. If no group name is specified, all groups stop.
- apito** *timeout*

Specify the time in seconds to wait for groups to be started, stopped(internal communication timeout). A value between 1 to 9999 can be specified.

When the --apito option is not specified, the command waits for 3600 seconds.

Return Value

0	Success
Other than 0	Failure

Notes

This command must be executed by a user with the administrator privilege.

The EXPRESSCLUSTER service must be running.

Error messages

Message	Cause/Solution
Log in as administrator.	Log in as a user with Administrator privileges.
Invalid configuration data. Create valid cluster configuration data.	Create valid cluster configuration data using the Cluster WebUI.
Invalid option.	Specify a valid option.
Could not connect to the server. Check if the cluster service is active.	Check if the EXPRESSCLUSTER service is operating.
Invalid server status. Check if the cluster service is active.	Check if the EXPRESSCLUSTER service is operating.
Server is not active. Check if the cluster service is active.	Check if the EXPRESSCLUSTER .service is operating.

Continued on next page

Table 2.8 – continued from previous page

Message	Cause/Solution
Invalid server name. Specify a valid server name in the cluster.	Specify the valid server name in the cluster.
Connection was lost. Check if there is a server where the cluster service is stopped in the cluster.	Check if there is any server on which the EXPRESS-CLUSTER service has stopped in the cluster.
Invalid parameter.	The value specified as a command parameter may be invalid.
Internal communication timeout has occurred in the cluster server. If it occurs frequently, set the longer timeout.	A time-out occurred in the EXPRESSCLUSTER internal communication. If time-out keeps occurring, set the internal communication time-out longer.
Invalid server. Specify a server that can run and stop the group, or a server that can be a target when you move the group.	Server that starts and stops the group or to which the group is moved is invalid. Specify a valid server.
Could not start the group. Try it again after the other server is started, or after the Wait Synchronization time is timed out.	Start up the group after waiting for the remote server to start up, or after waiting for the timeout of the start-up wait time.
No operable group exists in the server.	Check if there is any group that is operable in the server which requested the process.
The group has already been started on the local server.	Check the status of the group by using the Cluster WebUI or the clpstat command.
The group has already been started on the other server. To start/stop the group on the local server, use -f option.	Check the status of the group by using the Cluster WebUI or the clpstat command. If you want to start up or stop a group which was started in a remote server from the local server, move the group or run the command with the -f option.
The group has already been stopped.	Check the status of the group by using the Cluster WebUI or the clpstat command.
Failed to start one or more resources. Check the status of group.	Check the status of group by using the Cluster WebUI or the clpstat command.
Failed to stop one or more resources. Check the status of group.	Check the status of group by using the Cluster WebUI or the clpstat command.
The group is busy. Try again later.	The group is now being started or stopped. Wait for a while and try again.
An error occurred on one or more groups. Check the status of group.	Check the status of the group by using the Cluster WebUI or the clpstat command.
Invalid group name. Specify a valid group name in the cluster.	Specify the valid name of a group in the cluster.
Server is isolated.	The server has been suspended. The server is re-booted after it went down.
Some invalid status. Check the status of cluster.	The status is invalid. Check the status of the cluster.
Log in as administrator.	Check if the memory or OS resource is sufficient.

Continued on next page

Table 2.8 – continued from previous page

Message	Cause/Solution
Server is not in a condition to start group. Critical monitor error is detected.	Check the status of the server by using the Cluster WebUI or clpstat command. An error is detected in a critical monitor on the server on which an attempt was made to start a group.
There is no appropriate destination for the group. Critical monitor error is detected.	Check the status of the server by using the Cluster WebUI or clpstat command. An error is detected in a critical monitor on all other servers.

2.7 Collecting logs (clplogcc command)

Collects logs.

Command line

```
clplogcc [-t collect_type] [-o path] [--local] [--evt event_type ...]
```

Description

Collects logs and OS information.

Option

None

Logs are collected.

-t *collect_type*

Specifies a log collection pattern. When this option is omitted, a log collection pattern will be type 1.

-o *path*

Specifies the output destination of collector files. When this option is omitted, logs are output under tmp of the installation path.

--local

Collects logs on the local server without going through the data transfer server.

--evt *event_type*

Specifies the type of the event log to be collected.

When this option is skipped, application logs, system logs and security logs will be collected.

If you specify none, no event log is collected.

This option is enabled only when [--local] option is specified.

For details, see "2.7.3. *Specifying a event log type to collect (--evt option)*".

Return Value

0	Success
Other than 0	Failure

Remarks

Because log files are compressed in the zip format, decompress them by using an appropriate application.

Notes

Run this command as a user with Administrator privileges.

Execution Result

For this command, the following processes are displayed:

Steps in Process	Explanation
Preparing	Initializing
Connecting	Connecting to the server
Compressing	Compressing log files
Transmitting	Sending log files
Disconnecting	Disconnecting from the server
Completion	Finished collecting logs

The following results (server status) are displayed:

Result (server status)	Explanation
Normal	Completed successfully
Canceled	Canceled by the user
Invalid Parameters	Parameters are invalid
Compression Error	There was an error while compressing files.
Communication Error	There was a communication error.
Timeout	Timeout occurred.
Busy	The server is busy.
No Free Space	No free space on the disk.
File I/O Error	There was a file I/O error.
Unknown Error	Failure caused by other errors

Error messages

Message	Cause/Solution
Log in as administrator.	Log in as a user with Administrator privileges.
Invalid option.	Specify a valid option.
Collect type must be specified 'type1' or 'type2' or 'type3' or 'type4' or 'type5' or 'type6'. Incorrect collection type is specified.	Invalid collection type is specified.
Specifiable number of servers are the max number of servers that can constitute a cluster.	The number of servers you can specify is within the maximum number of servers for cluster configuration.
Failed to obtain properties.	Failed to obtain the properties.
Failed to obtain the list of nodes. Specify a valid server name in the cluster.	Specify the valid name of a server in the cluster.
Invalid server name. Specify a valid server name in the cluster.	Specify the invalid server name in the cluster.
Failed to collect log.	Failed to collect logs.
Server is busy. Check if this command is already run.	This command may be run already. Check it.
Internal error. Check if memory or OS resources are sufficient.	Check if the memory or OS resource is sufficient.

2.7.1 Collecting logs by specifying a type (-t option)

To collect only the specified types of logs, run the clplogcc command with the -t option. Specify a type from 1 through 6 for the log collection.

	Type1	Type2	Type3	Type4	Type5	Type6
(1) Default collection information	✓	✓	✓	n/a	n/a	n/a
(2) Event log	✓	✓	✓	✓	n/a	n/a

Continued on next page

Table 2.12 – continued from previous page

	Type1	Type2	Type3	Type4	Type5	Type6
(3) Windows Error Report	✓	✓	✓	✓	n/a	n/a
(4) User dump	✓	✓	n/a	n/a	n/a	n/a
(5) Diagnostics report	✓	✓	n/a	n/a	n/a	n/a
(6) Registry	✓	✓	✓	n/a	n/a	n/a
(7) Scripts	✓	✓	✓	n/a	n/a	n/a
(8) Logs of ESMPRO/AC and ESM-PRO/UPSC	✓	✓	✓	n/a	n/a	n/a
(9) Logs of HA	n/a	✓	n/a	n/a	n/a	n/a
(10) Mirror Statistics	n/a	n/a	n/a	n/a	n/a	n/a
(11) Cluster Statistics	n/a	n/a	n/a	n/a	n/a	✓
(12) System statistics	✓	✓	✓	n/a	n/a	✓

Run this command from the command line as follows.

Example: When collecting logs using type 2

```
# clplogcc -t type2
```

When no option is specified, a log type will be type 1.

Information to be collected by default

- Logs of each module in the EXPRESSCLUSTER Server
- Attribute information on each module (dir) in the EXPRESSCLUSTER Server
 - In bin
 - In alert\bin , In webmgr\bin
 - In %SystemRoot%\system32\drivers
- EXPRESSCLUSTER X SingleServerSafe version information
- OS information

- Update log
- License Information
- Configuration file
- Policy file
- Shared memory dump
- Local node status of EXPRESSCLUSTER (clpstat --local execution result)
- Host name and domain name information (hostname execution result)
- Network information (netstat execution result)
- IP routing table information (route print execution result)
- Process existing status (tasklist execution result)
- ipconfig (ipconfig execution result)
- Shared configuration of files (net share execution result)
- Session information (net session execution result)
- Windows firewall settings (netsh execution result)
- SNP (Scalable Networking Pack) setting (netsh execution result)
- Task schedule settings (schtasks execution result)
- Usage status of the VSS shadow copy area (execution result of vssadmin list shadowstorage)
- Operation log of Cluster WebUI
- Operation log of API services
- AWS-related information

Results of executing the following commands:

- where aws
- aws --version
- aws configure list
- aws ec2 describe-network-interfaces
- aws ec2 describe-instance-attribute --attribute disableApiStop

The following instance metadata:

- ami-id
- instance-type
- availability-zone
- region

- OCI-related information

The following instance metadata:

- image
- shape
- availabilityDomain

- region

- Google Cloud-related information

The following instance metadata:

- image
- vmSize
- zone

- Azure-related information

The following instance metadata:

- imageReference
- location
- vmSize
- zone

Event log

- Application log (Application.evtx)
- System log (System.evtx)
- Security log (Security.evtx)

Windows Error Report

- *.*.wer

User dump

- *.*.dmp

Diagnostics report

- The result of running msinfo32.exe

Registry

- Registry information of the EXPRESSCLUSTER Server
 - HKLM\SOFTWARE\NEC\EXPRESSCLUSTER\Alert
 - HKLM\SOFTWARE\NEC\EXPRESSCLUSTER\MirrorList
 - HKLM\SOFTWARE\NEC\EXPRESSCLUSTER\RC
 - HKLM\SOFTWARE\NEC\EXPRESSCLUSTER\VCOM
 - Registry information of diskflt
- Registry information of OS
 - HKLM\SYSTEM\CurrentControlSet\Services\Disk
 - HKLM\SYSTEM\CurrentControlSet\Control\Session Manager\DOS Devices
 - HKLM\SYSTEM\MountedDevices
 - HKLM\SYSTEM\CurrentControlSet\Enum\SCSI
 - HKLM\SYSTEM\CurrentControlSet\Enum\STORAGE
 - HKLM\SYSTEM\CurrentControlSet\Services\symc8xx

- HKLM\SYSTEM\CurrentControlSet\Control\FileSystem

Scripts

Start/stop script for a group that was created with the Cluster WebUI.

If you specify a user-defined script, it is not included in the log collection information. It must be collected separately.

ESMPRO/AC and ESMPRO/UPSC logs

Files collected by running the acupslog.exe command

HA logs

- System resource information
- JVM monitor log
- System monitor log

Mirror Statistics

This version does not collect.

Cluster Statistics

- Cluster Statistics
 - In perf\cluster

System statistics

- System statistics
 - In perf\system

2.7.2 Output paths of log files (-o option)

- Log file is named and be saved as *server_name-log.zip*.
- Because log files are compressed in the zip format, decompress them by using an appropriate application.

If not specifying -o option

Logs are output in tmp of installation path.

When the -o option is specified:

If you run the command as follows, logs are located in the specified c:\tmp directory.

```
# clplogcc -o C:\tmp
```

2.7.3 Specifying a event log type to collect (--evt option)

You can specify the type of the event log included in the information obtained at the log collection.

Specify one or more text strings that represent event log types as shown in the following table after [--evt] option.

Event log type	Character string to specify
Application log	app
System log	sys

Continued on next page

Table 2.13 – continued from previous page

Event log type	Character string to specify
Security log	sec
No event log to be collected	none

Example) Collecting the system log and the security log

```
# clplogcc --local --evt sys sec
```

- This option is enabled only when the [--local] option is specified.

2.7.4 Collecting information on emergency OS shutdown

The OS resource information is collected when the EXPRESSCLUSTER service fails due to termination by an internal status error or a similar problem.

Information to be collected is as follows:

- Server information
 - Some module logs in EXPRESSCLUSTER servers
- Information created by running a command
 - Host name and domain name information (hostname execution result)
 - Network information (netstat execution result)
 - Process existing status (tasklist execution result)
 - ipconfig (ipconfig execution result)
 - Shared configuration of files (net share execution result)
 - Session information (net session execution result)

These are collected by default in the log collection. You do not need to collect them separately.

2.8 Applying and backing up configuration data (clpcfctrl command)

2.8.1 Applying configuration data (clpcfctrl --push)

Applies the configuration data to servers.

Command line

```
clpcfctrl --push [-w] [-x <path>] [-p <portnumber>] [--nocheck]
```

Description

Applies the configuration data created by the Cluster WebUI to servers.

Option

--push

Specify this option when applying the data.
This option cannot be omitted.

-x

Specify this option to apply the configuration data in the specified directory.

-w

Indicates that SJIS encoding is used for the configuration data file.
In general, it is not necessary to specify this option

-p

Specifies the number of the port used to transfer data.
When this option is omitted, the default value is used. In general, it is not necessary to specify this option.

--nocheck

Omits the check on the operation necessary to apply changes.

Return Value

0	Success
Other than 0	Failure

Remarks

To deliver the cluster configuration data file exported from Cluster WebUI, to cluster servers by executing the clpcfctrl --push command, follow these steps:

1. Start Cluster WebUI, then switch to **Config Mode**.
2. If necessary, change the cluster configuration in Cluster WebUI.
3. In Cluster WebUI, select **Export**, then export the cluster configuration data file (in zip format) to any folder.
4. In any folder accessible from the cluster servers, unzip the exported zip file.
5. On any of the cluster servers, start Command Prompt, then execute the clpcfctrl --push command.

Notes

Run this command as a user with Administrator privileges.

Before uploading cluster configuration data with one or more servers removed, uninstall the EXPRESSCLUSTER Server on the servers that will be removed from the cluster configuration.

When the configuration data is applied, the current configuration data is compared with the configuration data to be applied.

If there is any change in the configuration data, the following message output. After operating the service or group by following the instructions in the message, execute the command again.

Message	Solution
Please stop EXPRESSCLUSTER Server.	Stop the server.
Please suspend EXPRESSCLUSTER Server.	Suspend the server.
Please stop the following groups.	Stop the group for which the setting has been changed.
Reboot of a cluster is necessary to reflect setting.	Shut down and reboot the cluster to apply the change of settings.
To apply the changes you made, restart the EXPRESSCLUSTER Web Alert service.	Restart the EXPRESSCLUSTER Web Alert service to apply the change of settings.
To apply the changes you made, restart the EXPRESSCLUSTER Manager service.	Restart the EXPRESSCLUSTER Manager service to apply the change of settings.
To apply the changes you made, restart the EXPRESSCLUSTER Information Base service.	Restart the EXPRESSCLUSTER Information Base service to apply the change of settings.
To apply the changes you made, restart the EXPRESSCLUSTER API service.	Restart the EXPRESSCLUSTER API service to apply the change of settings.
To apply the changes you made, restart the EXPRESSCLUSTER Node Manager service.	Restart the EXPRESSCLUSTER Node Manager service to apply the change of settings.
Start of a cluster is necessary to reflect setting.	This is the message displayed at the initial cluster configuration. Start the cluster.

The --nocheck option is used only for special purposes including a maintenance procedure. Do not use the --nocheck option for normal operations.

Error messages

Message	Cause/Solution
Log in as administrator.	Log in as a user with Administrator privileges.
This command is already run.	This command has already been run.
invalid option.	This option is invalid. Check the option.
Invalid mode. Check if --push or --pull option is specified.	Check if --push is specified.
Invalid host name. Server specified by -h option is not included in the configuration	The server specified with -h is not included in configuration data. Check if the specified server name or IP address is correct.
Failed to initialize the xml library. Check if memory or OS resources are sufficient.	Check if the memory or OS resources are sufficient.
Failed to load the configuration file. Check if memory or OS resources are sufficient.	Check if the memory or OS resources are sufficient.
Failed to change the configuration file. Check if memory or OS resources are sufficient.	Check if the memory or OS resources are sufficient.
Failed to load the all.pol file. Reinstall the RPM cluster.	Reinstall the EXPRESSCLUSTER Server.

Continued on next page

Table 2.15 – continued from previous page

Message	Cause/Solution
Failed to load the cfctrl.pol file. Reinstall the RPM cluster.	Reinstall the EXPRESSCLUSTER Server.
Failed to get the install path. Reinstall the RPM cluster.	Reinstall the EXPRESSCLUSTER Server.
Failed to initialize the trncl library. Check if memory or OS resources are sufficient.	Check if the memory or OS resources are sufficient.
Failed to connect to trnsv. Check if the other server is active.	Accessing the server has failed. Check if the other server has been started up.
Failed to get the list of node. Check if the server name or ip addresses are correct.	Check if the server name and the IP address of the configuration information are correctly set.
File delivery failed. Failed to deliver the configuration data. Check if the other server is active and run the command again.	Delivering configuration data has failed. Check if other server(s) has been started. Run the command again after the server has started up.
Multi file delivery failed. Failed to deliver the configuration data. Check if the other server is active and run the command again.	Delivering configuration data has failed. Check if other server(s) has been started. Run the command again after the server has started up.
Failed to deliver the configuration data. Check if the other server is active and run the command again.	Delivering configuration data has failed. Check if other server(s) has been started. Run the command again after the server has started up.
Failed to upload the configuration file. Check if the other server is active and run the command again.	Delivering configuration data has failed. Check if other server(s) has been started
Canceled to deliver the configuration file since it failed to connect to one or more server. If you want to deliver the configuration file to servers that can be connected, run the command again with "-force" option.	Canceled the delivery of the configuration data. There are some servers that failed to connect. If you want to deliver the configuration data only to the server that can be connected, run the command again by using the --force option.
The directory "work" is not found. Reinstall the RPM.	Reinstall the EXPRESSCLUSTER Server.
Failed to make a working directory.	Check if the memory or OS resources are sufficient.
The directory does not exist.	Check if the path to the cluster configuration data file is correct.
This is not a directory.	Check if the path to the cluster configuration data file is correct.
The source file does not exist.	Check if the path to the cluster configuration data file is correct.
The source file is a directory.	Check if the path to the cluster configuration data file is correct.
The source directory does not exist.	Check if the path to the cluster configuration data file is correct.
The source file is not a directory.	Check if the path to the cluster configuration data file is correct.

Continued on next page

Table 2.15 – continued from previous page

Message	Cause/Solution
Failed to change the character code set (EUC to SJIS).	Check if the memory or OS resources are sufficient.
Failed to change the character code set (SJIS to EUC).	Check if the memory or OS resources are sufficient.
Failed to allocate memory.	Check if the memory or OS resources are sufficient.
Failed to change the directory.	Check if the memory or OS resources are sufficient.
Failed to make a directory.	Check if the memory or OS resources are sufficient.
Failed to remove the directory.	Check if the memory or OS resources are sufficient.
Failed to remove the file.	Check if the memory or OS resources are sufficient.
Failed to open the file.	Check if the path to the cluster configuration data file is correct.
Failed to read the file.	Check if the memory or OS resources are sufficient.
Failed to copy the file.	Check if the memory or OS resources are sufficient.
Failed to create the mutex.	Check if the memory or OS resources are sufficient.
Internal error. Check if memory or OS resources are sufficient.	Check if the memory or OS resources are sufficient.
Failed to check server property. Check if the server name or ip addresses are correct.	Check if the server name and the IP address of the configuration information are correctly set.
Please stop the following resources.	Stop the resource of which the configuration has been changed.

2.8.2 Backing up configuration data (clpcfctrl --pull)

Backs up the configuration data.

Command line

```
clpcfctrl --pull [-w] [-x <path>] [-p <portnumber>]
```

Description

Backs up the configuration data to be used by the Cluster WebUI.

Option

--pull

Specify this option when performing backup.
This option cannot be omitted.

-x

Specify this option when backing up configuration data in the specified directory.

-w

Save the configuration data with character encoding, SJIS.

-p

Specifies the number of the port used to transfer data.
When this option is omitted, the default value is used. In general, it is not necessary to specify this option.

Return Value

0	Success
Other than 0	Failure

Remarks

To deliver the cluster configuration data file obtained by executing the clpcfctrl --pull command, from Cluster WebUI to cluster servers, follow these steps:

1. Execute the clpcfctrl --pull command to save the cluster configuration data file (in zip format) to any folder.
2. Unzip the zip file, select the clp.conf file and the scripts folder, and then create a zipped file (named freely).
3. Start Cluster WebUI, switch to **Config Mode**, and then click **Import** to import the file created in Step 2.
4. If necessary, change the cluster configuration in Cluster WebUI, then click **Apply the Configuration File**.

Notes

Run this command as a user with Administrator privileges.

Error messages

Message	Cause/Solution
Log in as administrator.	Log on as a user with Administrator privileges.
This command is already run.	This command has already been run.
invalid option.	The option is invalid. Check the option.
Invalid mode. Check if --push or --pull option is specified.	Check if --pull is specified.
Failed to initialize the xml library. Check if memory or OS resources are sufficient.	Check if the memory or OS resources are sufficient.
Failed to load the configuration file. Check if memory or OS resources are sufficient.	Check if the memory or OS resources are sufficient.
Failed to change the configuration file. Check if memory or OS resources are sufficient.	Check if the memory or OS resources are sufficient.
Failed to load the all.pol file. Reinstall the cluster.	Reinstall the EXPRESSCLUSTER Server.
Failed to load the cfctrl.pol file. Reinstall the cluster.	Reinstall the EXPRESSCLUSTER Server.
Failed to get the install path. Reinstall the cluster.	Reinstall the EXPRESSCLUSTER Server.
Failed to initialize the trncl library. Check if memory or OS resources are sufficient	Check if the memory or OS resources are sufficient.
Failed to connect to trnsv. Check if the other server is active.	Accessing the server has failed. Check if other server(s) has been started.
The directory "work" is not found. Reinstall the cluster.	Reinstall the EXPRESSCLUSTER Server.
Failed to make a working directory.	Check if the memory or OS resources are sufficient.
The directory does not exist.	Check if the memory or OS resources are sufficient.
This is not a directory.	Check if the memory or OS resources are sufficient.
The source file does not exist.	Check if the memory or OS resources are sufficient.
The source file is a directory.	Check if the memory or OS resources are sufficient.
The source directory does not exist.	Check if the memory or OS resources are sufficient.
The source file is not a directory.	Check if the memory or OS resources are sufficient.
Failed to change the character code set (EUC to SJIS).	Check if the memory or OS resources are sufficient.
Failed to change the character code set (SJIS to EUC).	Check if the memory or OS resources are sufficient.
Failed to allocate memory.	Check if the memory or OS resources are sufficient.

Continued on next page

Table 2.16 – continued from previous page

Message	Cause/Solution
Failed to change the directory.	Check if the memory or OS resources are sufficient.
Failed to make a directory.	Check if the memory or OS resources are sufficient.
Failed to remove the directory.	Check if the memory or OS resources are sufficient.
Failed to remove the file.	Check if the memory or OS resources are sufficient.
Failed to open the file.	Check if the memory or OS resources are sufficient.
Failed to read the file.	Check if the memory or OS resources are sufficient.
Failed to write the file.	Check if the memory or OS resources are sufficient.
Failed to copy the file.	Check if the memory or OS resources are sufficient.
Failed to create the mutex.	Check if the memory or OS resources are sufficient.
Internal error. Check if memory or OS resources are sufficient.	Check if the memory or OS resources are sufficient.

2.9 Adjusting time-out temporarily (clptoratio command)

Extends or displays the current timeout ratio.

Command line

```
clptoratio -r <ratio> -t <time>
clptoratio -i
clptoratio -s
```

Description

Temporarily extends the following timeout values:

- Monitor resource
- Alert synchronous service
- WebManager service

The current timeout ratio is displayed.

Option

-r ratio

Specifies the timeout ratio. Use 1 or larger integer. The maximum timeout ratio is 10,000.

If you specify "1," you can restore the original ratio as when using the -i option.

-t time

Specifies the extension period.

You can specify minutes for m, hours for h, and days for d. The maximum period of time is 30 days.

Example:

2m, 3h, 4d

-i

Sets back the modified timeout ratio.

-s

Refers to the current timeout ratio.

Return Value

0	Success
Other than 0	Failure

Remarks

When the server is shut down, the timeout ratio you specified becomes ineffective.

With the -s option, you can only refer to the current timeout ratio. You cannot see other information such as remaining time of extended period.

You can see the original timeout value by using the status display command.

Monitor resource timeout

```
# clpstat --mon monitor_resource_name --detail
```

Notes

This command must be executed by a user with the administrator privilege.
 The EXPRESSCLUSTER service must be running when you execute this command.
 When you set the timeout ratio, make sure to specify the extension period. However, if you set "1" for the timeout ratio, you cannot specify the extension period.
 You cannot specify a combination such as "2m3h," for the extension period.

Examples

Example 1: Doubling the timeout ratio for three days

```
# clptoratio -r 2 -t 3d
```

Example 2: Setting back the timeout ratio to original

```
# clptoratio -i
```

Example 3: Referring to the current timeout ratio

```
# clptoratio -s  
present toratio : 2
```

The current timeout ratio is set to 2.

Error messages

Message	Cause/Solution
Log in as administrator.	Log on as a user with Administrator privileges.
Invalid configuration file. Create valid cluster configuration data.	Create valid cluster configuration data by using the Cluster WebUI.
invalid option.	Specify a valid option.
Specify a number in a valid range.	Specify a number within a valid range.
Specify a correct number.	Specify a valid number.
Scale factor must be specified by integer value of 1 or more.	Specify 1 or larger integer for ratio.
Specify scale factor in a range less than the maximum scale factor.	Specify a ratio that is not larger than the maximum ratio.
Set the correct extension period. ex) 2m, 3h, 4d	Set a valid extension period.
Set the extension period in a range less than the maximum extension period.	Set the extension period which does not exceed the maximum extension period.
Could not connect to the server. Check if the cluster service is active.	Check that the EXPRESSCLUSTER service is operating.
Server is not active. Check if the cluster service is active.	Check that the EXPRESSCLUSTER service is operating.
Connection was lost. Check if there is a server where the cluster service is stopped in the cluster.	Check if there is any server in the cluster that the EXPRESSCLUSTER service stopped.
Invalid parameter.	The value specified as the command parameter may be invalid.
Internal communication timeout has occurred in the cluster server. If it occurs frequently, set the longer timeout.	A time-out occurred in the EXPRESSCLUSTER internal communication. If time-out keeps occurring, set the internal communication time-out longer.

Continued on next page

Table 2.17 – continued from previous page

Message	Cause/Solution
Processing failed on some servers. Check the status of failed servers.	There is a server in which the processing has failed. Check the statuses of servers in the cluster. Run the command with all servers in the cluster activated.
Internal error. Check if memory or OS resources are sufficient.	Check if the memory or OS resources are sufficient.

2.10 Modifying the log level and size (clplogcf command)

Modifies and displays log level and log output file size.

Command line

```
clplogcf -t <type> -l <level> -s <size>
```

Description

Modifies the settings of the log level and log output file size.

Displays the currently specified values.

Option

-t

Specifies a module type whose settings will be changed.

For types which can be specified, see the Type column, which shows information outputted by executing the command with no options specified.

-l

Specifies a log level.

You can specify one of the following for a log level.

1, 2, 4, 8, 16, 32

You can see more detailed information as the log level increases.

-s

Specifies the size of a file for log output.

The unit is byte.

None

Displays the entire configuration information currently set.

Return Value

0	Success
Other than 0	Failure

Remarks

Each type of log output by EXPRESSCLUSTER X SingleServerSafe uses two log files. Therefore, it is necessary to have twice the disk space specified by -s.

Notes

Run this command as a user with Administrator privileges.

To run this command, the EXPRESSCLUSTER Event service must be started.

Rebooting the server restores the settings to their pre-change values.

Examples

Example 1: Modifying the pm log level

```
# clplogcf -t pm -l 8
```

Example 2: Seeing the pm log level and log file size

```
# clplogcf -t pm
TYPE, LEVEL, SIZE
pm, 8, 1000000
```

Example 3: Displaying the values currently configured

```
# clplogcf
TYPE, LEVEL, SIZE
trnsv, 4, 1000000
xml, 4, 1000000
logcf, 4, 1000000
```

Error messages

Message	Cause/Solution
Log in as administrator.	Log on as a user with Administrator privileges.
invalid option.	The option is invalid. Check the option.
Failed to change configuration. Check if the event service is running.	clpevent may not have been started.
invalid level	The specified level is invalid.
invalid size	The specified size is invalid.
Failed to initialize the xml library. Check if memory or OS resources are sufficient.	Check if the memory or OS resources are sufficient.
Failed to print current configuration. Check if the event service is running.	clpevent may not be started yet.

2.11 Managing licenses (clplcncs command)

the clplcncs command manages licenses.

Command line

```
clplcncs -i [licensefile ...]  
clplcncs -l [-a]  
clplcncs -d serialno [-q]  
clplcncs -d -t [-q]  
clplcncs -d -a [-q]  
clplcncs --reregister licensefile...
```

Description

This command registers, refers to and remove the licenses of the product version and trial version of this product.

Option

-i [*licensefile* ...]

When a license file is specified, license information is acquired from the file for registration. You can specify multiple licenses. You can also specify a wildcard. If nothing is specified, you need to enter license information interactively.

-l [-a]

References the registered license.

The name of displayed items are as follows.

Item	Explanation
Serial No	Serial number (product version only)
User name	User name (trial version only)
Key	License key
Licensed Number of CPU	The number of license (per CPU)
Licensed Number of Computers	The number of license (per node)
Start date	Start date of valid period ^{1,2}
End date	End date of valid period ^{1,2}

- Status

Status of the license

Status	Explanation
valid	valid
invalid	invalid
unknown	unknown
inactive	Before valid period ^{1,2}
expired	After valid period ^{1,2}

¹ Displayed in the case of the fixed term license

² Displayed in the case of the license of trial version

When -a option not specified, the license status of "invalid", "unknown" and "expired" are not displayed.
When specifying -a option, all the licenses are displayed regardless of the license status.

-d <param>

- <param>
 - serialno
Deletes the license with the specified serial number.
 - -t
Deletes all the registered licenses of the trial version.
 - -a
Deletes all the registered licenses.

-q

Deletes licenses without displaying a warning message. This is used with -d option.

--reregister licensefile...

Reregisters a fixed-term license. Usually, it is unnecessary to execute the command with this option.

Return Value

0	Normal termination
1	Cancel
3	Initialization error
5	Invalid option
8	Other internal error

Example of a command entry for registration

- **Registering the license interactively**

```
# clplcnc -i
```

- **Product Version/Product Version (Fixed Term)**

- Select a product division.

```
Selection of License Version
 1. Product Version
 2. Trial Version
 e. Exit
Select License Version. [1, 2, or e (default:1)] ...
```

- Enter a serial number.

Enter serial number [Ex. XXXXXXXX000000] ...

- Enter a license key.

Enter license key [Ex. XXXXXXXX-XXXXXXXX-XXXXXXXX-XXXXXXXX] ...

- **Trial Version**

- Select a product division.

```
Selection of License Version
 1. Product Version
 2. Trial Version
 e. Exit
Select License Version. [1, 2, or e (default:1)] ...
```

- Enter a user name.

```
Enter user name [ 1 to 63byte ] .
```

- Enter a license key.

```
Enter license key
[Ex. XXXXX-XXXXXXXX-XXXXXXXX-XXXXXXXX] ...
```

- **Specify a license file**

```
# clplcncsc -i c:\tmp\licensefile
```

- **for referring to the license**

```
# clplcncsc -l
```

1. Product version

```
< EXPRESSCLUSTER X SingleServerSafe <PRODUCT> >

Seq... 1
Key..... A1234567-B1234567-C1234567-D1234567
Licensed Number of CPU... 2
Status... valid

Seq... 2
Serial No..... AAAAAAAAA000002
Key..... E1234567-F1234567-G1234567-H1234567
Licensed Number of Computers... 1
Status... valid
```

2. Product version (fixed term)

```
< EXPRESSCLUSTER X SingleServerSafe <PRODUCT> >

Seq... 1
Serial No..... AAAAAAAAA000001
Key..... A1234567-B1234567-C1234567-D1234567
Start date..... 2018/01/01
End date..... 2018/01/31
Status..... valid

Seq... 2
Serial No..... AAAAAAAAA000002
Key..... E1234567-F1234567-G1234567-H1234567
Status..... inactive
```

3. Trial version

```
< EXPRESSCLUSTER X SingleServerSafe <TRIAL> >
Seq... 1
Key..... A1234567-B1234567-C1234567-D1234567
User name... NEC
Start date..... 2018/01/01
End date..... 2018/02/28
Status..... valid
```

- **for deleting the license**

```
# clplcncsc -d AAAAAAAAA000001 -q
```

- **for deleting the license**

```
# clplcncsc -d -t -q
```

- **for deleting the license**

```
# clplcncsc -d -a
```

Deletion confirmation

```
Are you sure to remove the license? [y/n] ...
```

Notes

Run this command as the Administrator user.

Furthermore, when you use -d option and -a option together, all the trial version licenses and product version licenses will be deleted. To delete only the trial license, also specify the -t option. If the licenses including the product license have been deleted, register the product license again.

When you refer to a license which includes multiple licenses, all included licenses information are displayed.

Error messages

Message	Cause/Solution
Processed license num (success : %d, error : %d).	The number of processed licenses (success:%d, error:%d) If error is not 0, check if the license information is correct.
Command succeeded.	The command ran successfully.
Command failed.	The command did not run successfully.
Log in as administrator.	Log on as the Administrator user.
Invalid cluster configuration data. Check the cluster configuration information.	The cluster configuration data is invalid. Check the cluster configuration data by using the Cluster WebUI.
Initialization error. Check if memory or OS resources are sufficient.	Check to see if the memory or OS resource is sufficient.
The command is already run.	The command is already running.
The license is not registered.	The license has not been registered yet.

Continued on next page

Table 2.21 – continued from previous page

Message	Cause/Solution
Could not open the license file. Check if the license file exists on the specified path.	Input/Output cannot be done to the license file. Check to see if the license file exists in the specified path.
Could not read the license file. Check if the license file exists on the specified path.	Input/Output cannot be done to the license file. Check to see if the license file exists in the specified path.
The field format of the license file is invalid. The license file may be corrupted. Check the destination from where the file is sent.	The field format of the license file is invalid. The license file may be corrupted. Check it with the file sender.
The cluster configuration data may be invalid or not registered.	The cluster configuration data may be invalid or not registered. Check the configuration data.
Failed to terminate the library. Check if memory or OS resources are sufficient.	Check to see if the memory or OS resource is sufficient.
Failed to register the license. Check if the entered license information is correct.	Check to see if the entered license information is correct.
Failed to open the license. Check if the entered license information is correct.	Check to see if the entered license information is correct.
Failed to remove the license.	License deletion failed. Parameter error may have occurred or resources (memory or OS) may not be sufficient.
This license is already registered.	This license has already been registered. Check the registered license.
This license is already activated.	This license has already been used. Check the registered license.
This license is unavailable for this product.	This license cannot be used for this product. Check the license.
The maximum number of licenses was reached.	The maximum number of registered licenses has been reached. Delete invalid licenses.
Internal error. Check if memory or OS resources are sufficient.	Check to see if the memory or OS resource is sufficient.

2.12 Outputting messages (clplogcmd command)

Registers the specified message with Alert logs.

Command line

```
clplogcmd -m message [--alert] [--mail] [-i ID] [-l level]
```

Note: It is not necessary to run this command during normal setup or operation. You need to write the command in the script resource script.

Description

Write this command in the script resource script to output messages to any destination.

Messages are produced in the following format:

```
[ID] message
```

Option

-m message

Specifies a message. This option cannot be omitted. The maximum size of message is 498 bytes.

You may use alphabets, numbers, and symbols³.

--alert

--mail

Specify the output destination from alert and mail. (Multiple destinations can be specified.)

This parameter can be omitted. The alert will be the output destinations when the parameter is omitted.

For more information on output destinations, see "Directory structure of EXPRESSCLUSTER" in "The system maintenance information" in the "EXPRESSCLUSTER X Maintenance Guide".

-i ID

Specify message ID.

This parameter can be omitted. The default value 1 is set for the ID when the parameter is omitted.

³ Notes on using symbols in the message:

- The symbols below must be enclosed in double quotes (" ").

```
& | < >
```

(For example, if you specify "&" in the message, & is output.)

- The symbols below must have a backslash \ at the beginning

```
\
```

(For example, if you specify \\ in the message, \ is output.)

- When there is a space in the **message**, it must be placed in enclosed in double quotes (" ").

-l level

Level of alert to output.

Select a level of alert output from ERR, WARN, or INFO. The icon on the alert logs of the Cluster WebUI is determined according to the level you select here.

This parameter can be omitted. The default value INFO is set to level when the parameter is omitted.

For details, see the online manual.

Return Value

0	Success
Other than 0	Failure

Notes

This command must be executed by a user with the administrator privilege.

The specification of the **-i** option is different from that of the Linux version. In the Windows version, the event ID displayed in an alert cannot be changed.

Examples of command execution

Example 1: When specifying message, message ID, and level:

When the following is written in the script resource script, the message is displayed in the Alert logs.

```
clplogcmd -m test1 -i 100 -l ERR
```

Example 2: When specifying message, output destination, event ID, and level (output destination is mail):

When the following is written in the Script resource script, the message is sent to the mail address set in the **Cluster Properties**. For more information on the mail address settings, see "Alert Service tab" in "Cluster properties" in "Parameter details" in the "EXPRESSCLUSTER X Reference Guide".

```
clplogcmd -m test2 --mail -i 100 -l ERR
```

The following information is sent to the mail destination:

```
Message:test2  
Type: logcmd  
ID: 100  
Host: server1  
Date: 2004/09/01 14:00:00
```

2.13 Controlling monitor resources (clpmonctrl command)

Controls the monitor resources.

Command line

```
clpmonctrl -s [-m resource name] [-w wait time]  
clpmonctrl -r [-m resource name] [-w wait time]  
clpmonctrl -c [-m resource name]  
clpmonctrl -v [-m resource name]  
clpmonctrl -e -m resource name  
clpmonctrl -n [-m resource name]
```

Description

Suspends or resumes monitor resources.

Option

- s, --suspend**
Suspends monitoring
- r, --resume**
Resumes monitoring
- c, --clear**
Initializes the recovery operation count.
- v, --view**
Displays the recovery operation count.
- e, --error**
Enables dummy failure. Be sure to specify a monitor resource name with the -m option.
- n, --normal**
Disables dummy failure. When a monitor resource name is specified with the -m option, the function is disabled only for the resource. When the -m option is omitted, the function is disabled for all monitor resources.
- m, --monitor**

Specifies a monitor resource to be controlled.
This option can be omitted. All monitor resources are controlled when the option is omitted.
- w, --wait**

Waits for control monitoring on a monitor resource basis. (in seconds)
This option can be omitted. The default value 5 is set when the option is omitted.

Return Value

0	Completed successfully.
1	Privilege for execution is invalid.
2	The option is invalid.
3	Initialization error
4	The configuration data is invalid.
5	Monitor resource is not registered.
6	The specified monitor resource is invalid.
10	EXPRESSCLUSTER is not running.
11	The EXPRESSCLUSTER service is suspended
90	Monitoring control wait timeout
128	Duplicated activation
255	Other internal error

Remarks

If you suspend an already suspended monitor resource or resume an already started one, this command abends without changing the status of the monitor resource.

Notes

Run this command as a user with the administrator privilege.

Check the status of monitor resource by using the status display command or Cluster WebUI.

Before you run this command, use the clpstat command or Cluster WebUI to verify that the status of monitor resources is in either "Online" or "Suspend."

If you execute clpmonctrl command with the -v option, "FinalAction Count" is script execution count before final action for following setting.

- The **Execute Script before Final Action** check box is selected.
- **Final Action** is **No operation**.

Error Messages

Message	Causes/Solution
Command succeeded.	The command ran successfully.
You are not authorized to run the command. Log in as Administrator.	You are not authorized to run this command. Log in as a user with Administrator privileges.
Initialization error. Check if memory or OS resources are sufficient.	Check if the memory or OS resource is sufficient.
Invalid cluster configuration data. Check the cluster configuration information.	The cluster configuration data is invalid. Check the cluster configuration data by using the Cluster WebUI.
Monitor resource is not registered.	The monitor resource is not registered.
Specified monitor resource is not registered. Check the cluster configuration information.	The specified monitor resource is not registered. Check the cluster configuration data by using the Cluster WebUI.

Continued on next page

Table 2.22 – continued from previous page

Message	Causes/Solution
The cluster has been stopped. Check the active status of the cluster service by using the command such as ps command.	The cluster has been stopped. Check the activation status of the EXPRESSCLUSTER service by using the ps command.
The cluster has been suspended. The cluster service has been suspended. Check activation status of the cluster service by using a command such as the ps command.	The EXPRESSCLUSTER service has been suspended. Check the activation status of the EXPRESSCLUSTER service by using a command such as ps command.
Waiting for synchronization of the cluster. The cluster is waiting for synchronization. Wait for a while and try again.	Synchronization of the cluster is awaited. Try again after synchronization of the cluster is completed.
Monitor %1 was unregistered, ignored. The specified monitor resources %1 is not registered, but continues processing. Check the cluster configuration data.	There is an unregistered monitor resource in the specified monitor resources, but it is ignored and the process is continued Check the cluster configuration data by using the Cluster WebUI. %1: Monitor resource name
The command is already executed. Check the execution state by using the "ps" command or some other command.	The command has already been run. Check the status by using the ps command.
Internal error. Check if memory or OS resources are sufficient.	Check if the memory or OS resource is sufficient.

Monitor resource types that can be specified for the -m option

Type	Suspending/Resume	Reset Recovery Count	Dummy Failure Possibility
appliw	✓	✓	✓
diskw	✓	✓	✓
ipw	✓	✓	✓
miiw	✓	✓	✓
mtw	✓	✓	✓
servicew	✓	✓	✓
genw	✓	✓	✓
mrw	✓	✓	n/a
db2w	✓	✓	✓
ftpw	✓	✓	✓
httpw	✓	✓	✓
imap4w	✓	✓	✓
odbcw	✓	✓	✓
oraclew	✓	✓	✓
pop3w	✓	✓	✓

Continued on next page

Table 2.23 – continued from previous page

Type	Suspending/Resume	Reset Recovery Count	Dummy Failure Possibility
psqlw	✓	✓	✓
smtpw	✓	✓	✓
sqlserverw	✓	✓	✓
tuxw	✓	✓	✓
wasw	✓	✓	✓
wlsw	✓	✓	✓
otxw	✓	✓	✓
jraw	✓	✓	✓
sraw	✓	✓	✓
psrw	✓	✓	✓
userw	✓	✓	✓
psw	✓	✓	✓

2.14 Controlling group resources (clprsc command)

Controls group resources

Command line

```
clprsc -s resource_name [-f] [--apito timeout]  

clprsc -t resource_name [-f] [--apito timeout]
```

Description

This command starts and stops group resources.

Option

- s**
Starts group resources.
- t**
Stops group resources.
- f**

When the group resource is running, all group resources that the specified group resource depends start up.

When the group resource is not running, all group resources that the specified group resource depends stop.

--apito *timeout*

Specify the time in seconds to wait for group resources to be started or stopped (internal communication timeout). A value between 1 to 9999 can be specified.

When the --apito option is not specified, the command waits for 3600 seconds.

Return Value

0	Completed successfully.
Other than 0	Terminated due to a failure.

Notes

This command must be executed by a user with the administrator privilege.

Check the status of the group resources by using the status display command or the Cluster WebUI.

Error Messages

Message	Causes/Solution
Log in as Administrator.	Run this command as a user with Administrator privileges.

Continued on next page

Table 2.24 – continued from previous page

Message	Causes/Solution
Invalid cluster configuration data. Check the cluster configuration information.	The cluster construction information is not correct. Check the cluster construction information by Cluster WebUI.
Invalid option.	Specify a correct option.
Could not connect server. Check if the cluster service is active.	Check if the EXPRESSCLUSTER is activated.
Invalid server status. Check if the cluster service is active.	Check if the EXPRESSCLUSTER is activated.
Server is not active. Check if the cluster service is active.	Check if the EXPRESSCLUSTER is activated.
Invalid server name. Specify a valid server name in the cluster.	Specify a correct server name in the cluster.
Connection was lost. Check if there is a server where the cluster service is stopped in the cluster.	Check if there is any server with EXPRESSCLUSTER service stopped in the cluster.
Internal communication timeout has occurred in the cluster server. If it occurs frequently, set the longer timeout.	Timeout has occurred in internal communication in the EXPRESSCLUSTER. Set the internal communication timeout longer if this error occurs frequently.
The group resource is busy. Try again later.	Because the group resource is in the process of starting or stopping, wait for a while and try again.
An error occurred on group resource. Check the status of group resource.	Check the group resource status by using the Cluster WebUI or the clpstat command.
Could not start the group resource. Try it again after the other server is started, or after the Wait Synchronization time is timed out.	Wait till the other server starts or the wait time times out, then start the group resources.
No operable group resource exists in the server.	Check there is a processable group resource on the specified server.
The group resource has already been started on the local server.	Check the group resource status by using the Cluster WebUI or clpstat command.
The group resource has already been started on the other server. To start the group resource on the local server, stop the group resource.	Check the group resource status by using the Cluster WebUI or clpstat command.
	Stop the group to start the group resources on the local server.
The group resource has already been stopped.	Check the group resource status by using the Cluster WebUI or clpstat command.
Failed to start group resource. Check the status of group resource.	Check the group resource status by using the Cluster WebUI or clpstat command.
Failed to stop resource. Check the status of group resource.	Check the group resource status by using the Cluster WebUI or clpstat command.
Depending resource is not offline. Check the status of resource.	Because the status of the depended group resource is not offline, the group resource cannot be stopped. Stop the depended group resource or specify the -f option.

Continued on next page

Table 2.24 – continued from previous page

Message	Causes/Solution
Depending resource is not online. Check the status of resource.	Because the status of the depended group is not on-line, the group resource cannot be started. Start the depended group resource or specify the -f option.
Invalid group resource name. Specify a valid group resource name in the cluster.	The group resource is not registered.
Server is isolated.	The server is suspended. (Rebooting after down)
Internal error. Check if memory or OS resources are sufficient.	Not enough memory space or OS resource. Check if there is enough space.
Server is not in a condition to start resource. Critical monitor error is detected.	<p>Check the group resource status by using the Cluster WebUI or clpstat command.</p> <p>An error is detected in a critical monitor on the server on which an attempt to start a group resource was made.</p>

2.15 Requesting processing to cluster servers (clprexec command)

Issues a processing execution request to another server on which EXPRESSCLUSTER is installed.

Command line

```
clprexec --script script_file -h IP [-p port_number] [-w timeout] [-o logfile_path]  
clprexec --notice {[mrw_name] | [-k category[. keyword]]} -h IP [-p port_number] [-w timeout] [-o  
logfile_path]  
clprexec --clear {[mrw_name] | [-k category[. keyword]]} -h IP [-p port_number] [-w timeout] [-o logfile_path]
```

Description

The command issues the request to execute specified process to the server in another cluster.

Option

--script *script_name*

Requests script execution.

For *script_name*, specify the file name of the script to execute (such as a shell script or executable file).

The script must be created in the work/rexec folder, which is in the folder where EXPRESSCLUSTER is installed, on each server specified using -h.

--notice

Sends an error message to the EXPRESSCLUSTER server.

Specify a message reception monitor resource name for *mrw_name*.

When not specifying the monitor resource name, specify the monitor type and monitor target of the message reception monitor resource by using the -k option.

--clear

Requests changing the status of the message reception monitor resource from "Abnormal" to "Normal."

Specify a message reception monitor resource name for *mrw_name*.

When not specifying the monitor resource name, specify the monitor type and monitor target of the message reception monitor resource by using the -k option.

-h *IP Address*

Specify the IP addresses of EXPRESSCLUSTER servers that receive the processing request.

Up to 32 IP addresses can be specified by separating them with commas.

* If this option is omitted, the processing request is issued to the local server.

-k *category*[. *keyword*]

For *category*, specify the category specified for the message receive monitor when the --notice or --clear option is specified.

To specify the keyword of the message receive monitor resource, specify them by separating them with period after *category*.

-p *port_number*

Specify the port number.

For *port_number*, specify the data transfer port number specified for the server that receives the processing request.

The default value, 29002, is used if this option is omitted.

-o logfile_path

For *logfile_path*, specify the file path along which the detailed log of this command is output.

The file contains the log of one command execution.

* If this option is not specified on a server where EXPRESSCLUSTER is not installed, the log is always output to the standard output.

-w timeout

Specify the command timeout time. The default, 180 seconds, is used if this option is not specified.

A value from 5 to 999 can be specified.

Return Value

0	Completed successfully.
Other than 0	Terminated due to a failure.

Notes

When issuing error messages by using the `clprexec` command, the message reception monitor resources for which executing an action when an error occurs is specified in EXPRESSCLUSTER server must be registered and started.

The server that has the IP address specified for the `-h` option must satisfy the following conditions:

= EXPRESSCLUSTER X3.0 or later must be installed.

= EXPRESSCLUSTER must be running.

(When an option other than `--script` is used)

= `mrw` must be set up and running.

(When the `--notice` or `--clear` option is used)

When using the **Limiting the access by using client IP addresses** function, add the IP address of the device in which the `clprexec` command is executed to the **IP Addresses of the Accessible Clients** list.

For details of the **Limiting the access by using client IP addresses** function, see "WebManager tab" of "Cluster properties" in "Other setting details" in the EXPRESSCLUSTER X SingleServerSafe Configuration Guide.

Examples

Example 1: This example shows how to issue a request to execute the script (`script1.bat`) on EXPRESSCLUSTER server 1 (10.0.0.1):

```
# clprexec --script script1.bat -h 10.0.0.1
```

Example 2: This example shows how to issue an error message to EXPRESSCLUSTER server 1 (10.0.0.1):

```
* mrw1 set, category: earthquake, keyword: scale3
```

- This example shows how to specify a message reception monitor resource name:

```
# clprexec --notice mrw1 -h 10.0.0.1 -w 30 -p /tmp/clprexec/clprexec.  
↪log
```

- This example shows how to specify the category and keyword specified for the message reception monitor resource:

```
# clprexec --notice -h 10.0.0.1 -k earthquake,scale3 -w 30 -p /tmp/  
↪clprexec/clprexec.log
```

Example 3: This example shows how to issue a request to change the monitor status of mrw1 to EXPRESSCLUSTER server 1 (10.0.0.1):

```
* mrw1 set, category: earthquake, keyword: scale3
```

- This example shows how to specify a message reception monitor resource name:

```
# clprexec --clear mrw1 -h 10.0.0.1
```

- This example shows how to specify the category and keyword specified for the message reception monitor resource:

```
# clprexec --clear -h 10.0.0.1 -k earthquake,scale3
```

Error Messages

Message	Cause/solution
Success	-
Invalid option.	Check the command argument.
Could not connect to the data transfer servers. Check if the servers have started up.	Check whether the specified IP address is correct and whether the server that has the IP address is running.
Could not connect to all data transfer server.	Check whether the specified IP address is correct and whether the server that has the IP address is running.
Command timeout.	Check whether the processing is complete on the server that has the specified IP address.
All servers are busy. Check if this command is already run.	This command might already be running.
Group(%s) is offline.	Check the processing result on the server that received the request.
Group that specified resource(%s) belongs to is offline.	Check the group status.
Specified script(%s) does not exist.	Check if the specified script exist.
Specified resource(%s) is not exist.	Check the resource name or monitor resource name.
Specified resource(Category:%s, Keyword:%s) is not exist.	Check the resource name or monitor resource name.
Specified group(%s) does not exist.	Check the group name.

Continued on next page

Table 2.25 – continued from previous page

Message	Cause/solution
This server is not permitted to execute cl-prexec.	Check whether the IP address of the server that executes the command is registered in the list of client IP addresses that are not allowed to connect to the Cluster WebUI.
%s failed in execute.	Check the status of the EXPRESSCLUSTER server that received the request.

2.16 Controlling reboot count (clpregctrl command)

Controls reboot count limitation.

Command line

```
clpregctrl --get
clpregctrl -g
clpregctrl --clear -t type -r registry
clpregctrl -c -t type -r registry
```

Description

Displays or initializes the reboot count on a server.

Option

- g, --get**
Displays reboot count information.
- c, --clear**
Initializes reboot count.
- t *type***
Specifies the type to initialize the reboot count. The type that can be specified is *rc* or *rm*
- r *registry***
Specifies the registry name. The registry name that can be specified is *haltcount*.

Return Value

0	Completed successfully.
1	Privilege for execution is invalid.
2	Duplicated activation
3	The option is invalid.
4	The configuration data is invalid.
10 to 17	Internal error
20 to 22	Obtaining reboot count information has failed.
90	Allocating memory has failed.

Notes

This command must be executed by a user with the administrator privilege.

Examples

- Display of reboot count information

```
# clpregctrl -g
*****
-----
type : rc
registry : haltcount
comment : halt count
kind : int
value : 0
default : 0
-----
```

```

type : rm
registry : haltcount
comment : halt count
kind : int
value : 3
default : 0
*****
success.(code:0)

```

#

The reboot count is initialized in the following examples.

Example 1: When initializing the count of reboots caused by a group resource error:

```

# clpregctrl -c -t rc -r haltcount
success.(code:0)
#

```

Example 2: When initializing the count of reboots caused by a monitor resource error:

```

# clpregctrl -c -t rm -r haltcount
success.(code:0)
#

```

Error Messages

Message	Cause/solution
Command succeeded.	The command ran successfully.
Log in as Administrator.	You are not authorized to run this command. Run this command as a user with Administrator privileges.
The command is already executed.	The command is already running.
Invalid option.	Specify a valid option.
Internal error. Check if memory or OS resources are sufficient.	Not enough memory space or OS resource.

2.17 Checking the process health (clphealthchk command)

Checks the process health.

Command line

```
clphealthchk [ -t pm | -t rc | -t rm | -t nm | -h]
```

Note: This command must be run on the server whose process health is to be checked because this command checks the process health of a single server.

Description

This command checks the process health of a single server.

Option

None

Checks the health of all of clppm, clprc, clprm, and clpnm.

-t <param>

- <param>

- pm

- Checks the health of clppm.

- rc

- Checks the health of clprc.

- rm

- Checks the health of clprm.

- nm

- Checks the health of clpnm.

-h

Displays the usage.

Return Value

0	Normal termination.
1	Privilege for execution is invalid.
2	Duplicated activation.
3	Initialization error.
4	The option is invalid.
10	The process stall monitoring function has not been enabled.
11	The cluster is not activated (waiting for the cluster to start or the cluster has been stopped.)
12	The cluster daemon is suspended.
100	There is a process whose health information has not been updated within a certain period. If the -t option is specified, the health information of the specified process is not updated within a certain period.
255	Other internal error.

Examples

Example 1: When the processes are healthy


```
# clphealthchk
pm OK
rc OK
rm OK
nm OK
```

Example 2: When clprc is stalled

```
# clphealthchk
pm OK
rc NG
rm OK
nm OK
# clphealthchk -t rc
rc NG
```

Example 3: When the cluster has been stopped

```
# clphealthchk
The cluster has been stopped
```

Remarks

If the cluster has been stopped or suspended, the process is also stopped.

Notes

Run this command as a user with Administrator privileges.

Error Messages

Message	Cause/Solution
Log in as Administrator.	Log in as a user with Administrator privileges.
Initialization error. Check if memory or OS resources are sufficient.	Check to see if the memory or OS resource is sufficient.
Invalid option.	Specify a valid option.
The function of process stall monitor is disabled.	The process stall monitoring function has not been enabled.
The cluster has been stopped.	The cluster has been stopped.
The cluster has been suspended.	The cluster has been suspended.
This command is already run.	The command has already been started.
Internal error. Check if memory or OS resources are sufficient.	Check to see if the memory or OS resource is sufficient.

2.18 Setting an action for OS shutdown initiated by other than cluster service (clpstdncnf command)

Sets an action for OS shutdown initiated by other than cluster service..

Command line

```
clpstdncnf -e [time]
clpstdncnf -d
clpstdncnf -v
```

Description

This command sets an action for OS shutdown initiated by other than cluster service.

Option

-e [time]

Waits for cluster services to be stopped when OS shutdown is initiated by other than cluster service. You can specify a timeout value in minutes (A value between 1 to 1440 can be specified). It is necessary to specify the timeout value at first execution. From the second execution on, if you don't specify the timeout value, the current value is used.

-d

Does not wait for cluster services to be stopped when OS shutdown is initiated by other than cluster service.

-v

shows the current setting.

Return Value

0	Success
Other than 0	Failure

Notes

Run this command as a user with Administrator privileges.

In case of a virtual environment, such as cloud environment, when OS shutdown is initiated from the virtual infrastructure, power-off may be executed depending on the virtual infrastructure.

Example of command execution

Example 1: Waits for cluster service to be stopped (timeout = 30 minutes)

```
# clpstdncnf -e 30
Command succeeded.
# clpstdncnf -v
Mode : wait
Timeout : 30 min
```

Example 2: Does not wait for cluster service to be stopped

```
# clpstdncnf -d
Command succeeded.
# clpstdncnf -v
Mode : no wait
```

Timeout : 30 min

2.19 Displaying the cluster statistics information (clpperfc command)

the clpperfc command displays the cluster statistics information.

Command line

```
clpperfc --starttime -g group_name
clpperfc --stoptime -g group_name
clpperfc -g [group_name]
clpperfc -m monitor_name
```

Description

This command displays the median values (millisecond) of the group start time and group stop time.

This command displays the monitoring processing time (millisecond) of the monitor resource.

Option

--starttime -g *group_name*
Displays the median value of the group start time.

--stoptime -g *group_name*
Displays the median value of the group stop time.

-g [*group_name*]
Displays the each median value of the group start time and group stop time.
If groupname is omitted, it displays the each median value of the start time and stop time of all the groups.

-m *monitor_name*
Displays the last monitor processing time of the monitor resource.

Return value

0	Normal termination
1	Invalid command option
2	User authentication error
3	Configuration information load error
4	Configuration information load error
5	Initialization error
6	Internal error
7	Internal communication initialization error
8	Internal communication connection error
9	Internal communication processing error
10	Target group check error
12	Timeout error

Example of Execution

When displaying the median value of the group start time:

```
# clpperfc --starttime -g failover1
200
```

When displaying each median value of the start time and stop time of the specific group:

```
# clpperfc -g failover1
                start time    stop time
failover1      200             150
```

When displaying the monitor processing time of the monitor resource:

```
# clpperfc -m monitor1  
100
```

Remarks

The time is output in millisecond by this commands.

If the valid start time or stop time of the group was not obtained, - is displayed.

If the valid monitoring time of the monitor resource was not obtained, 0 is displayed.

Notes

Execute this command as Administrator.

Error Messages

Message	Cause/Solution
Log in as Administrator.	Run this command as an Administrator user.
Invalid option.	The command option is invalid. Check the command option.
Command timeout.	Command execution timed out .
Internal error.	Check if memory or OS resources are sufficient.

2.20 Checking the cluster configuration information (clpcfchk command)

This command checks the cluster configuration information.

Command line

```
clpcfchk -o path [-i conf_path]
```

Description

This command checks the validness of the setting values based on the cluster configuration information.

Option

- o path
Specifies the directory to store the check results.
- i conf_path
Specifies the directory which stored the configuration information to check.
If this option is omitted, the applied configuration information is checked.

Return Value

0	Normal termination
Other	than 0 Termination with an error

Example of Execution

When checking the applied configuration information:

```
# clpcfchk -o /tmp  
server1 : PASS
```

When checking the stored configuration information:

```
# clpcfchk -o /tmp -i /tmp/config  
server1 : PASS
```

Execution Result

For this command, the following check results (total results) are displayed.

Check Results (Total Results)	Description
PASS	No error found.
FAIL	An error found. Check the check results.

Remarks

Only the total results of each server are displayed.

Notes

Execute this command as Administrator.

When checking the configuration information exported through Cluster WebUI, decompress it in advance.

Error Messages

Message	Cause/Solution
Log in as Administrator.	Log in as an Administrator user.
Invalid option.	Specify a valid option.
Could not opened the configuration file. Check if the configuration file exists on the specified path.	The specified path does not exist. Specify a valid path.
Server is busy. Check if this command is already run.	This command has been already activated.
Failed to obtain properties.	Failed to obtain the properties.
Failed to check validation.	Failed to check the cluster configuration.
Internal error. Check if memory or OS resources are sufficient.	The amount of memory or OS resources may be insufficient. Check for any insufficiency.

2.21 Adding a firewall rule (clpfwctrl command)

Adds or deletes an inbound firewall rule on servers for EXPRESSCLUSTER.

Command line

```
clpfwctrl --add [--profile public | private | domain]
clpfwctrl --remove
clpfwctrl --help
```

Description

Note: Before executing this command, enable the server firewall.

Note: This command adds or deletes an inbound firewall rule on a single server.

Note: Execute this command immediately after installing EXPRESSCLUSTER and directly after applying configuration data.

An inbound firewall rule can be added for accessing port numbers for EXPRESSCLUSTER, and the added rule can be deleted.

For more information on port numbers to be specified with this command, and for that on protocols, see "EXPRESSCLUSTER X SingleServerSafe Installation Guide" -> "About EXPRESSCLUSTER X SingleServerSafe" -> "Preparing and verifying the server environment before installation" -> "Verifying the firewall settings (Required)".

Add an inbound firewall rule with the following group name and names. If the group name is already used, first delete it, then add it again. Do not change the group name.

- Group name
 - EXPRESSCLUSTER
- Names
 - EXPRESSCLUSTER (TCP-In)
 - EXPRESSCLUSTER (UDP-In)
 - EXPRESSCLUSTER (ICMPv4-In)
 - EXPRESSCLUSTER (ICMPv6-In)

Option

```
--add [--profile public | private | domain]
    Adds an inbound firewall rule, and its profile name (if specified) as well. The profile name can be omitted.

--remove
    Deletes the added inbound firewall rule.
```


--help
 Displays the usage.

Return value

0	Success
Other than 0	Failure

Notes

Execute this command as Administrator.
 This command does not add an outbound firewall rule. Adding it requires a separate procedure.
 Once a JVM monitor resource is registered, this command always allows the port number for managing the resource.

Example of Execution

Adding an inbound firewall rule without the --profile option:

```
# clpfwctrl.bat --add
```

 Command succeeded.

Example of Execution

Adding an inbound firewall rule with domain and private (the --profile option) specified:

```
# clpfwctrl.bat --profile domain private
```

 Command succeeded.

Example of Execution

Deleting the added inbound firewall rule:

```
# clpfwctrl.bat --remove
```

 Command succeeded.

Error Messages

Message	Cause/Solution
Log in as Administrator.	Log in as a user with Administrator privileges.
Invalid option.	Specify the right option.
Log directory is not found.	Installation is not correctly performed or you do not have the administrator privilege.
Failed to register rule(CLUSTERPRO). Invalid port.	Check the configuration data, which includes an invalid port number.
Unsupported environment.	The OS is unsupported.
Could not read xmlpath. Check if xmlpath exists on the specified path. (%1)	Check if the xml path exists in the configuration data. %1: xml path
Could not opened the configuration file. Check if the configuration file exists on the specified path. (%1)	Check if the configuration data exists. %1: xml path

Continued on next page

Table 2.30 – continued from previous page

Message	Cause/Solution
Could not read type. Check if type exists on the policy file. (%1)	Check if the policy file exists. %1: xml path
not exist xmlpath. (%1)	Check if the xml path exists in the configuration data. %1: xml path
Failed to obtain properties. (%1)	Check if the xml path exists in the configuration data. %1: xml path
Not exist java install path. (%1)	Check if the Java installation path exists. %1: Java installation path
Internal error. Check if memory or OS resources are sufficient. (%1)	The possible cause is insufficient memory or insufficient OS resources. Check if these two are sufficient. %1: xml path

NOTES AND RESTRICTIONS

This chapter provides cautions on using EXPRESSCLUSTER X SingleServerSafe, as well as the known problems and how to prevent them.

This chapter covers:

- 3.1. *After starting operating EXPRESSCLUSTER X SingleServerSafe*

3.1 After starting operating EXPRESSCLUSTER X SingleServerSafe

This section provides notes on situations you might encounter after starting to operate EXPRESSCLUSTER.

3.1.1 Restrictions during recovery operation

Do not perform the following operations by using the Cluster WebUI or command line while recovery processing is changing (reactivation -> last operation), if a group resource (an application resource, service resource, or other resource) is specified as a recovery target and when a monitor resource detects an error.

- Stopping/suspending the cluster
- Starting or stopping a group

If you perform the above-mentioned operations while recovery caused by detection of an error by a monitor resource is in progress, other group resources of the group with an error may not stop.

However, you can perform them when the final action is completed.

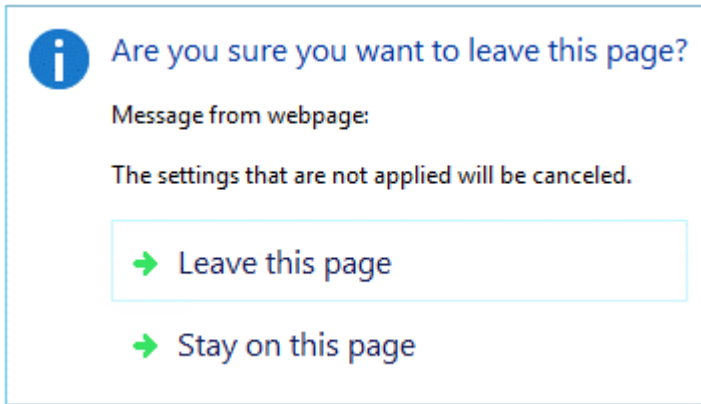
3.1.2 Executable format files and script files not described in the command reference

The installation directory contains executable files and script files that are not described in "EXPRESSCLUSTER command reference" in the "EXPRESSCLUSTER X Reference Guide". Do not execute these files by using any program other than EXPRESSCLUSTER X SingleServerSafe.

Any problems caused by not using EXPRESSCLUSTER will not be supported.

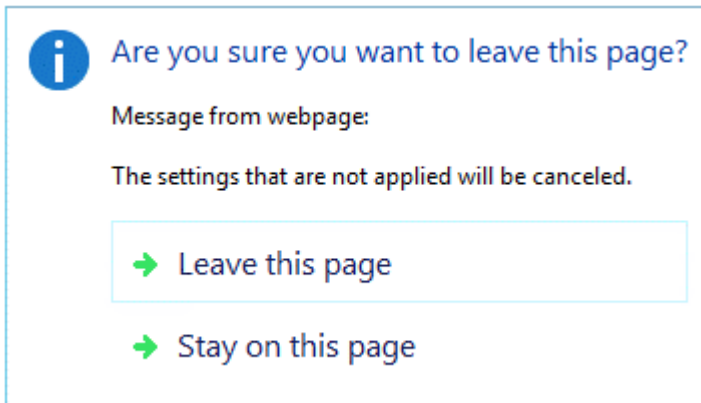
3.1.3 Notes on the Cluster WebUI

- If the Cluster WebUI is operated in the state that it cannot communicate with the connection destination, it may take a while until the control returns.
- When going through the proxy server, make the settings for the proxy server be able to relay the port number of the Cluster WebUI.
- When going through the reverse proxy server, the Cluster WebUI will not operate properly.
- When updating EXPRESSCLUSTER X SingleServerSafe, close all running browsers. Clear the browser cache and restart the browser.
- Cluster configuration data created using a later version of this product cannot be used with this product.
- When closing the Web browser, the dialog box to confirm to save may be displayed.



When you continue to edit, click the **Stay on this page** button.

- Reloading the Web browser (by selecting **Refresh button** from the menu or tool bar), the dialog box to confirm to save may be displayed.



When you continue to edit, click the **Stay on this page** button.

- For notes and restrictions of Cluster WebUI other than the above, see the online manual.

3.1.4 EXPRESSCLUSTER Disk Agent service

The EXPRESSCLUSTER Disk Agent service is not used for EXPRESSCLUSTER X SingleServerSafe. Do not start this service.

3.1.5 Issues with User Account Control (UAC) in Windows Server 2012 or later environment

In Windows Server 2012 or later or later environment, User Account Control (UAC) is enabled by default. When UAC is enabled, there are following issues.

Monitor Resource

Following resource has issues with UAC.

Oracle Monitor Resource

For the Oracle monitor resource, if you select **OS Authentication** for **Authentication Method** and then set any user other than those in the Administrators group as the monitor user, the Oracle monitoring processing will fail.

When you set **OS Authentication** in **Authentication Method**, the user to be set in **Monitor User** must belong to the Administrators group.

3.1.6 Screen display of application resource / script resource

Because the processes started from the application resource or script resource of EXPRESSCLUSTER are executed in session 0, when you start a process having GUI, the **Interactive services dialog detection** pop-up menu is displayed. Unless you select **Show me the message**, GUI is not displayed.

3.1.7 Environment in which the network interface card (NIC) is duplicated

In an environment in which the NIC is duplicated, NIC initialization at OS startup may take some time. If the cluster starts before the NIC is initialized, the starting of the kernel mode LAN heartbeat resource (lankhb) may fail. In such cases, the kernel mode LAN heartbeat resource cannot be restored to its normal status even if NIC initialization is completed. To restore the kernel mode LAN heartbeat resource, you must first suspend the cluster and then resume it. In that environment, we recommend to delay startup of the cluster by following setting.

- Network Initialization complete wait time
You can configure this setting in **Timeout** tab of **Cluster Properties**. If NIC initialization is completed within timeout, the cluster service starts up.

3.1.8 EXPRESSCLUSTER service login account

The EXPRESSCLUSTER service login account is set in **Local System Account**. If this account setting is changed, EXPRESSCLUSTER might not properly operate as a cluster.

3.1.9 Monitoring the EXPRESSCLUSTER resident process

The EXPRESSCLUSTER resident process can be monitored by using software monitoring processes. However, recovery actions such as restarting a process when the process abnormally terminated must not be executed.

3.1.10 JVM monitor resources

- When restarting the monitoring-target Java VM, you must first suspend JVM monitor resources or stop the cluster.
- When changing the JVM monitor resource settings, you must suspend and resume the cluster.
- JVM monitor resources do not support a delay warning of monitor resources.

3.1.11 System monitor resources, Process resource monitor resource

- To change a setting, the cluster must be suspended.
- System monitor resources do not support a delay warning for monitor resources.
- If the date or time setting on the OS is changed while a system monitor resource is operating, that system monitor resource may fail to operate normally.

If you have changed the date or time setting on the OS, suspend and then resume the cluster.

- No error is detected even after the specified duration for detecting errors has passed.
 - An error is detected before the specified duration for detecting errors has elapsed.
- Up to 26 disks that can be monitored by the disk resource monitoring function of System monitor resources.

3.1.12 Display of the Interactive services dialog detection pop-up menu

To allow the **Interactive services dialog detection** pop-up menu to be displayed by setting the **Allow to Interact with Desktop** of the application resource or script resource the "Interactive Service Detection" service must have been started.

The startup of the "Interactive Service Detection" service with its default settings is invalid. Follow the procedure below to validate the service.

See also:

[http://msdn.microsoft.com/en-us/library/windows/desktop/ms683502\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/windows/desktop/ms683502(v=vs.85).aspx)

-> Using an Interactive Service

ERROR MESSAGES

This chapter provides information on error messages you might encounter when operating EXPRESSCLUSTER X SingleServerSafe.

This chapter covers:

- 4.1. *Messages during setup*
- 4.2. *Messages reported by event log and alert*
- 4.3. *Driver event log messages*
- 4.4. *Detailed information in activating and deactivating group resources*
- 4.5. *Detailed information of monitor resource errors*
- 4.6. *STOP codes list of disk RW monitor resources*
- 4.7. *JVM monitor resource log output messages*
- 4.8. *STOP codes list of user mode monitor resources*
- 4.9. *Details on checking cluster configuration data*

4.1 Messages during setup

Module Type	Error Message	Solution
setup	Previous version of EXPRESSCLUSTER is installed. Upgrading from this version is not supported. Install after uninstalling the previous version of EXPRESSCLUSTER.	Uninstall the previous version of EXPRESSCLUSTER, and then try installing again.
setup	The SNMP service is running. You need to stop the SNMP service before you perform uninstallation. Do you want to stop the SNMP service now?	Select Yes to stop the SNMP service automatically and continue the installation. Or, select No to cancel the installation, manually stop the SNMP service and then perform installation again.
setup	Setup has failed. Error code : xxx	<ul style="list-style-type: none"> - Check the system requirements, setup procedures and notes described in the manual, and make sure they are followed. - If other application is running, terminate it. - Install again after restarting the OS.
setup	Setup has failed(xxx). Error code : xxx Please reboot the system and try again.	<ul style="list-style-type: none"> - Check the system requirements, setup procedures and notes described in the manual, and make sure these requirements are followed. - If other application is running, terminate it. - Install again after starting the OS again.
setup	Unsupported environment.	Install in the environment where the system requirements are met.
setup	Cannot perform uninstallation because there is one or more EXPRESSCLUSTER services still running. Stop all EXPRESSCLUSTER services before you restart uninstallation.	Stop all EXPRESSCLUSTER services, and then perform uninstallation.
setup	Failed to start the installer. (errorcode: xxx)	<ul style="list-style-type: none"> - Check the system requirements, setup procedures and notes described in the manual, and make sure they are followed. - If other application is running, terminate it. - The installer file may be corrupted or missing. Check it.
setup	Internal error. (xxx)	<ul style="list-style-type: none"> - Check the system requirements, setup procedures and notes described in the manual, and make sure they are followed. - If other application is running, terminate it.

4.2 Messages reported by event log and alert

These are the messages reported by applications, event logs, and alert logs of the Cluster WebUI. Messages with o in the columns of Alert, Eventlog and Userlog are recorded in each log. The following shows how to refer the logs:

Log Name	How to refer	File Name
Alert	Output to the Alert Logs of the Cluster WebUI. Logs can be collected by using the log collection tool.	alertlog.alt
Event log	Output to the Event Viewer (application log) of the OS. Collect logs by using the log collection tool. The source of the event is "EXPRESSCLUSTER X." Logs can be collected by using the log collection tool. Note because they are collected in the binary format with the file names in the right column, it is necessary to open the files using Event Viewer in the environment where EXPRESSCLUSTER is set up to refer to the information.	Application.evtx System.evtx
User log	These are the logs with text format, in which detail information is recorded. They are output in the "userlog.{00 - 02}.log" file in the log folder of the logs collected by using the log collection tool.	userlog.{00 - 02}.log

Messages with "o" in the Mail Report column will be sent as e-mail by EXPRESSCLUSTER X Alert Service.

Messages with "o" in the SNMP Trap column will be sent as SNMP trap.

"Report Settings" are settings of when linking to the ESMPRO Agent. In "Alive," the ESMPRO Agent performs the Alert report. In "Manager," alerts are output to the ESMPRO Agent. For details, see the manual of the ESMPRO Agent.

For Mail Alert and SNMP Trap sending, refer to "Alert Service tab" of "Cluster properties" in "Other setting details" in the "EXPRESSCLUSTER X SingleServerSafe Configuration Guide".

The report settings in "Alert Service tab" of "Cluster properties" in "Other setting details" in the "EXPRESSCLUSTER X SingleServerSafe Configuration Guide" cannot be configured for any message marked with x.

If the "o" mark is shown in the Message Topic column, the message on that row is reported when Amazon SNS linkage function is enabled.

For details of Amazon SNS linkage function, see "EXPRESSCLUSTER X SingleServerSafe Configuration Guide" - "Other setting details" - "Cluster properties" - "Cloud tab".

In the table below, each number indicates the following:

[1]Alert, [2]Eventlog, [3]Userlog, [4]Mail Report, [5]SNMP Trap, [6]Alive, [7]Manager, [8]Message Topic

Module Type	Event Type	Event ID	Event Messages	Description	Solution	1	2	3	4	5	6	7	8
nm	Information	1	The server %1 has been started.	Server up	-	o	o						
nm	Information	2	The server %1 has been stopped.	Server down	Server down was detected. Remove the failures of the server and then return the server to the cluster.	o	o		o	o	o	o	o
nm	Information	3	The resource %2 of the server %1 has been started.	Resource up	-			o					
nm	Error	4	The resource %2 of the server %1 has an error.	Resource abnormally	An error of the resource was detected. Refer to the event logs of the appropriate resource.			o					
nm	Information	5	The resource %2 of the server %1 has been recovered to the normal status.	Resource recover	-			o					
nm	Error	6	The resource %2 of the server %1 is unknown.	Resource unknown	Check the cluster configuration data.	o	o					o	
nm	Error	7	Network partition was detected. Shut down the server %1 to protect data.	Network partition detected	No heartbeat resources can be used. Make sure there is no error in the network adapter and the network is correctly connected.	o	o	o			o	o	
nm	Error	8	An error occurred while confirming the network partition. Shut down the server %1.	It was not possible to check for a network partition.	Refer to the event logs to check whether an error has occurred in a resource.	o	o	o			o	o	

Continued on next page

Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
nm	Error	9	An error occurred in confirming the network partition. To avoid failover on multiple servers, the server %1 suspended failover.	Failover hold	Refer to the event logs to check whether an error has occurred in a resource.	o	o	o			o	o	
nm	Information	10	The server %1 canceled the pending failover.	Failover hold cancel	-	o	o	o					
nm	Error	11	Shut down the server %1. (reason:%2)	Server shut-down	No heartbeat resources can be used. Make sure there is no error in the network adapter and the network is correctly connected.	o	o				o	o	
nm	Error	12	Cluster service will be stopped. (reason:%1)	Cluster service stopping	Check the cause following the message.	o	o					o	
nm	Warning	13	The combination of the network partition resources is invalid. (server name:%1)	NP resource combination error	Check the cluster configuration data.	o	o					o	
nm	Error	14	The status of heartbeat %1 is abnormal.	Heartbeat abnormally	Make sure there is no error in the network adapter and the network is correctly connected.	o	o				o	o	
nm	Information	15	The heartbeat %1 has been recovered to the normal status.	Heartbeat recovered	-	o	o						

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
nm	Error	16	The network partition %2 of the server %1 has an error.	Network partition abnormally	Refer to the event logs to check whether an error has occurred in a resource.	o	o				o	o	
nm	Information	17	The network partition %2 of the server %1 has been recovered to the normal status.	Network partition recovered	-	o	o						
nm	Error	18	Failed to start the resource %1. Server name:%2	Resource start failed	Refer to the event logs to check whether an error has occurred in a resource.	o	o				o	o	
nm	Information	19	Waiting for servers to start up has been canceled.	Waiting for servers to start up has been canceled.	-	o	o						
nm	Error	20	Network partition was detected. Shut down the server %1 for the cluster service to protect data.	Network partition detected	No heartbeat resources can be used. Make sure there is no error in the network adapter and the network is correctly connected.	o	o	o					
nm	Error	21	An error occurred when checking for a network partition. Shut down the server %1 for the cluster service to protect data.	It was not possible to check for a network partition.	Refer to the event logs to check whether an error has occurred in a resource.	o	o	o					

Continued on next page

Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
nm	Error	22	Network partition was detected. Execute action(%1) on the server %2 for the cluster service to protect data.	Network partition	No heartbeat resources can be used. Make sure there is no error in the network adapter and the network is correctly connected.	o	o	o					
nm	Error	23	An error occurred when checking for a network partition. Execute action(%1) on the server %2 for the cluster service to protect data.	Can not network partition resolution	Refer to the event logs to check whether an error has occurred in a resource.	o	o	o					
nm	Error	24	Execute action(%1) on the server %2. (reason:%3)	Can not network partition resolution	No heartbeat resources can be used. Make sure there is no error in the network adapter and the network is correctly connected.	o	o	o					
nm	Warning	25	The NP resolution process at the cluster startup is disabled.	Network partition resolution disabled	The NP resolution process at the cluster startup is disabled.	o	o	o					
pm	Information	501	Cluster service has been started properly.	Cluster service started	-	o	o	o					
pm	Information	502	Cluster service is shutting down.	Cluster service shutting down	-	o	o	o					
pm	Error	510	Cluster service has already been started.	Cluster service already started	Check the status of cluster service.	o	o	o				o	

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
pm	Error	511	Fatal error has occurred in the cluster service.	Critical error in cluster service	The service is not run by a user with required privilege or the system may not be able to operate properly.	o	o	o	o	o		o	o
pm	Error	512	An error is detected in xml library.	problem detected in xml library	The system may not be able to operate properly.	o	o	o				o	
pm	Error	513	An error is detected in configuration file.	problem detected in configuration file	Check the cluster configuration data.	o	o	o	o	o		o	o
pm	Error	514	Configuration file does not exist.	Configuration file not exists	Upload the cluster configuration data.	o	o	o				o	
pm	Error	515	My host name is not found in configuration file.	my name not found in configuration file	Check the cluster configuration data.	o	o	o				o	
pm	Warning	516	The recovery action is configured to change from an OS stop to an OS restart.	Checking the configuration of cluster properties.	-	o	o	o					
pm	Error	520	%1 process terminated abnormally.	process exit abnormally	The system may not be able to operate properly. The abend of the nm process, which does not affect the business operation, prevents you from stopping the cluster. To recover from it, restart the OS by using Cluster WebUI or the clpdown command.	o	o	o	o	o		o	o

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
pm	Error	521	The cluster service process returned an error. (halting system)	Rc process exit with error	Deactivation of group resources may be failed. Take appropriate action by following the group resource message.	0	0	0				0	
pm	Error	522	An error has occurred while initializing %1 process. (return code:%2)	process init error	Check the cause of an initialization error and troubleshoot it.	0	0	0	0	0		0	0
pm	Information	523	The system will be shut down.	system halting	-	0	0	0					
pm	Information	524	Cluster service will be stopped.	Cluster service stopping	-	0	0	0					
pm	Information	525	System will be rebooted.	System rebooting	-	0	0	0					
pm	Information	526	%1 process will be restarted.	Process restarting	-	0	0	0					
pm	Information	527	Emergency shutdown is in progress.	Emergency shutdown	-	0	0	0					
pm	Information	528	Generating STOP error.	Stop Error	-	0	0	0					
pm	Information	529	Generating hardware reset.	HW reset	-	0	0	0					
pm	Information	530	There was a request to shut down the system from the %1.	request of system halt	-	0	0	0					
pm	Information	531	There was a request to stop cluster service from the %1.	request of cluster service stop	-	0	0	0					
pm	Information	532	There was a request to reboot system from the %1.	request of system reboot	-	0	0	0					
pm	Information	533	There was a request to restart cluster service from the %1.	request of cluster service restart	-	0	0	0					

Continued on next page

Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
pm	Information	534	There was a request to resume cluster service from the %1.	request of cluster service resume	•	o	o	o					
pm	Information	535	There was a request to suspend cluster service from the %1.	request of cluster service suspend	-	o	o	o					
pm	Information	536	There was a request of emergency shutdown from the %1.	request of emergency shutdown	-	o	o	o					
pm	Information	537	There was a request to generate STOP error from the %1.	request of STOP error	-	o	o	o					
pm	Information	538	There was a request to generate hardware reset from the %1.	request of HW reset	-	o	o	o					
pm	Information	540	Requesting shutdown to the automatic running control software.	shutdown request to the automatic running control software start	-	o	o	o					
pm	Information	541	Requesting shutdown (reboot) to the automatic running control software.	shutdown (reboot) request to the automatic running control software	-	o	o	o					
pm	Information	542	Shutdown request to the automatic running control software is completed.	shutdown request to the automatic running control software complete	-	o	o	o					
pm	Error	543	The automatic running control software returned an error to the shutdown request.	shutdown by ESM/PRO/AC fail	The automatic operating settings may be incorrect. Check the settings.	o	o	o				o	

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
pm	Error	544	Communications with the automatic running control software failed.	Communications with ESM-PRO/AC fail	The system may not be able to operate properly.	o	o	o				o	
pmsvc	Error	801	The system will be shut-down because cluster resume was failed.	Failed to resume the cluster daemon	-	o	o	o					
pmsvc	Error	802	An attempt to shutdown the system failed.	Failed to shutdown the system	The system may not be able to operate properly.	o	o	o					
pmsvc	Information	810	The system shutdown was initiated by other than cluster service. Stopping cluster service. (timeout=%1 min).	Stopping cluster service.	-	o	o	o					
pmsvc	Information	811	Stopping cluster service has been completed.	Stopping cluster service has been completed.	-	o	o	o					
pmsvc	Error	812	Stopping cluster service has timed out.	Stopping cluster service has timed out.	-	o	o	o					
pmsvc	Warning	813	Stopping cluster service has been canceled.	Stopping cluster service has been canceled.	-	o	o	o					
rc	Information	1010	The group %1 is starting.	group-start started	-	o	o	o					
rc	Information	1011	The group %1 has been started.	group-start ended	-	o	o	o					
rc	Error	1012	Failed to start the group %1.	group-start failed	Take appropriate action by following the group resource message.	o	o	o				o	
rc	Information	1015	Waiting for group %1 to start has started.	waiting for group to start has started.	-	o	o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Information	1016	Waiting for group %1 to start has been completed.	waiting for group to start has been completed.	-	o	o	o					
rc	Error	1017	Group start was canceled because waiting for group %1 to start was timed out. (%2)	waiting for group to start has timed out.	Check the status of the group waiting to start. If the group has not yet been started, re-perform the group operation after starting that group.	o	o	o					
rc	Warning	1018	Waiting for group %1 to start has timed out. However, group start continues. (%2)	group start continues.	-	o	o	o					
rc	Warning	1019	Server %1 is not in a condition to start group %2.	cannot-start-group	Perform server recovery if the target server is suspended (Isolated). If it is suspended (Network Partition Unsolved), recover network partition resources to the normal status.	o							
rc	Information	1020	The group %1 is stopping.	group-stop started	-	o	o	o					
rc	Information	1021	The group %1 has been stopped.	group-stop ended	-	o	o	o					
rc	Error	1022	Failed to stop the group %1.	group-stop failed	Take appropriate action by following the group resource message.	o	o	o				o	

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Information	1025	Waiting for group %1 to stop has started.	waiting for group to stop has started.	-	0	0	0					
rc	Information	1026	Waiting for group %1 to stop has started.	waiting for group to stop has been completed.	-	0	0	0					
rc	Error	1027	Group stop has been canceled because waiting for group %1 to stop has timed out. (%2)	waiting for group to stop has timed out.	Check the status of the group waiting to stop. If the group has not yet been stopped, re-perform the group operation after stopping that group.	0	0	0					
rc	Warning	1028	Waiting for group %1 to stop has timed out. However, group stop continues. (%2)	group stop continues.	-	0	0	0					
rc	Information	1030	The resource %1 is starting.	resource-start started	-		0	0					
rc	Information	1031	The resource %1 has been started.	resource-start ended	-		0	0					
rc	Error	1032	Failed to start the resource %1. (%2 : %3)	resource-start failed	Check the cause for failing to start the resource. If a stall occurs during start processing, "Failed to start the resource %1. (99 : command is timeout)" is output.	0	0	0	0	0		0	0

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Error	1033	Failed to start the recovery script of resource %1. (%2 : %3)	recoverscript-start failed	Check the cause for failing to start the recovery script.	o	o	o				o	
rc	Information	1034	A request to activate %1 resource on server %2 has been started.	Resource start request to the standby server	-	o	o	o					
rc	Information	1035	A request to activate %1 resource on server %2 has been completed.	Resource start request to the standby server completed.	-	o	o	o					
rc	Error	1036	A request to activate %1 resource on server %2 has been failed.	Resource activation request to the standby server failed.	Check if there is an error with the network or with the remote server.	o	o	o					
rc	Information	1040	The resource %1 is stopping.	resource-stop started	-		o	o					
rc	Information	1041	The resource %1 has been stopped.	resource-stop ended	-		o	o					
rc	Error	1042	Failed to stop the resource %1. (%2 : %3)	resource-stop failed	Check the cause for failing to stop the resource. If a stall occurs during stop processing, "Failed to stop the resource %1. (99 : command is timeout)" is output.	o	o	o	o	o		o	o
rc	Information	1043	Waiting for resource %1 to stop has canceled. However, resource stop continues.	waiting for resource to stop has canceled	-		o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Information	1044	A request to stop %1 resource on server %2 has been started.	Resource stop request to the standby server	-	o	o	o					
rc	Information	1045	A request to stop %1 resource on server %2 has been completed.	Resource stop request to the standby server completed.	-	o	o	o					
rc	Error	1046	A request to stop %1 resource on server %2 has been failed.	Resource stop request to the standby server failed.	Check if there is an error with the network or with the remote server.	o	o	o					
rc	Information	1050	Moving the group %1.	group-move started	-	o	o	o					
rc	Information	1051	The group %1 has been moved.	group-move ended	-	o	o	o					
rc	Error	1052	Failed to move the group %1.	group-move failed	Take appropriate action by following the group resource message.	o	o	o				o	
rc	Warning	1059	Server %1 is not in a condition to move group %2.	cannot-move-group	Perform server recovery if the target server is suspended (Isolated). If it is suspended (Network Partition Unsolved), recover network partition resources to the normal status.	o							
rc	Information	1060	Failing over the group %1.	group-failover started	-	o	o	o					
rc	Information	1061	The group %1 has been failed over.	group-failover ended	-	o	o	o					
rc	Error	1062	Failed to fail over the group %1.	group-failover failed	Take appropriate action by following the group resource message.	o	o	o				o	

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Information	1070	Restarting the group %1.	group-restart started	-	0	0	0					
rc	Information	1071	The group %1 has been restarted.	group-restart ended	-	0	0	0					
rc	Error	1072	Failed to restart the group %1.	group-restart failed	Take appropriate action by following the group resource message.	0	0	0				0	
rc	Error	1077	Group failover has failed because there is a server incapable of internal communication.	group-failover failed (internal communication disabled)	Check the LAN heartbeat status in kernel mode. Start the group after recovering internal communication.	0	0	0					
rc	Information	1080	Restarting the resource %1.	resource-restart started	-	0	0	0					
rc	Information	1081	The resource %1 has been restarted.	resource-restart ended	-	0	0	0					
rc	Error	1082	Failed to restart the resource %1.	resource-restart failed	Take appropriate action by following the group resource message.	0	0	0				0	
rc	Information	1090	Shutting down the cluster.	cluster shut-down	-	0	0	0					
rc	Information	1091	Shutting down the server.	server shut-down	-	0	0	0					
rc	Error	1092	Group %1 is started on more than one server.	group double start	Server will automatically be shut down. Check the cause for the group to be started in more than one server.	0	0	0	0	0		0	0

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Error	1093	The system shutdown was performed by other than the cluster service.	system shutdown by other than cluster service	It is considered as an error if the system shuts down by other than cluster service. Follow the appropriate steps to shut down the system.	0	0	0				0	
rc	Warning	1100	Shutdown count is reached the maximum number (%1). Final action of resource %2 was ignored.	shutdown count reached the limit	-	0	0	0	0	0		0	0
rc	Warning	1101	Since there is no other normally running server, the final action for an activation error of group resource %1 was suppressed.	Suppression of final action for activation error	-	0	0	0					
rc	Warning	1102	Since there is no other normally running server, the final action for a deactivation error of group resource %1 was suppressed.	Suppression of final action for deactivation error	-	0	0	0					
rc	Warning	1103	Since server %1 is specified as that which suppresses shutdown at both-system activation detection, it ignored the shutdown request.	Suppression of shutdown caused by both-system activation detection	-	0	0	0					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Warning	1104	A mismatch in the group %1 status occurs between the servers.	Generation of group status mismatch	Restart the group or reboot the cluster.	o	o	o					
rc	Information	1105	Since server %1 is not specified as that which suppresses shutdown at both-system activation detection, it executed the shutdown request.	Shutdown caused by both-system	-	o	o	o					
rc	Information	1106	The number of reboots due to group resource errors has been reset.	Resetting the reboot count (group resource)	-	o	o	o					
rc	Information	1110	Server %1 is returned to the cluster.	server returned	-	o	o	o					
rc	Information	1111	Server %1 is isolated from the cluster.	server isolated	-	o	o	o					
rc	Information	1112	Server %1 started to return to the cluster.	server return start	-	o	o	o					
rc	Error	1113	Server %1 failed to return to the cluster.	server return fail	The system may not be able to operate properly.	o	o	o				o	
rc	Information	1120	Server %1 will notify the automatic running control software of shutdown start.	shutdown notification start	-	o	o	o					
rc	Error	1121	The automatic running control software returned an error to the shutdown start notification in server %1.	shutdown notification fail	The automatic operating settings may be incorrect. Check the settings.	o	o	o				o	

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Information	1122	Server %1 notified the automatic running control software of shutdown start.	shutdown notification finish	-	0	0	0					
rc	Information	1123	The automatic running control software is checking the power status of shared disks. A server will be restarted after the power status is checked.	waiting for disk power-on	-	0	0	0					
rc	Error	1124	An error was returned from the automatic running control software. Failed to check the power status of shared disks.	disk power-on confirmation failed	The automatic operating settings may be incorrect. Check the settings. An error may have occurred in the automatic power control unit. Check the automatic power control unit.	0	0	0				0	
rc	Error	1125	Server %1 failed to communicate with the automatic running control software.	communications with the automatic running control software failed	The system may not be able to operate properly.	0	0	0				0	
rc	Information	1130	Starting a single resource %1.	single-resource-start started	-	0	0	0					
rc	Information	1131	A single resource %1 has been started.	single-resource-start ended	-	0	0	0					
rc	Error	1132	Failed to start a single resource %1.	single-resource-start failed	Take appropriate action by following the group resource message.	0	0	0				0	

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Warning	1139	Server %1 is not in a condition to start a single resource %2.	cannot-start-single-resource	Perform server recovery if the target server is suspended (Isolated). If it is suspended (Network Partition Unsolved), recover network partition resources to the normal status.	o							
rc	Information	1140	Stopping a single resource %1.	single-resource-stop started	-	o	o	o					
rc	Information	1141	A single resource %1 has been stopped.	single-resource-stop ended	-	o	o	o					
rc	Error	1142	Failed to stop a single resource %1.	single-resource-stop failed	Take appropriate action by following the group resource message.	o	o	o				o	
rc	Information	1150	The group %1 is being migrated.	The group is being migrated.	-	o	o	o					
rc	Information	1151	The group %1 has been migrated.	The group has been migrated.	-	o	o	o					
rc	Error	1152	Failed to migrate the group %1.	Migrating the group has failed.	Take appropriate action by following the group resource message.	o	o	o					
rc	Warning	1159	Server %1 is not in a condition to migrate group %2.	The group cannot be migrated.	Perform server recovery if the target server is suspended (isolated). If it is suspended (due to an unresolved network partition), recover network partition resources to the normal status.	o	o	o					

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Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Information	1170	Server %1 in the same server group (%2) has been set as the destination for the group %3.	The destination found in the same server group	-	0	0	0					
rc	Information	1171	Server %1 not in the same server group (%2) has been set as the destination for the group %3.	The destination found in the other server group	-	0	0	0					
rc	Warning	1179	Can not fail over the group %1 because there is no appropriate destination in the same server group %2.	The destination not found in the same server group	Check if other servers in the same server group are stopped or isolated. If so, start the servers or return the servers to the cluster.	0	0	0					
rc	Information	1200	The resource %1 will be restarted since starting the resource %2 failed.	resource-restart by resource-acterr	-	0	0	0					
rc	Information	1201	The group %1 will be failed over to server %2 since starting the resource %3 failed.	group-failover by resource-acterr	-	0	0	0					
rc	Information	1202	The group %1 will be stopped since starting the resource %2 failed.	group-stop by resource-acterr	-	0	0	0					
rc	Information	1203	The cluster service will be stopped since starting the resource %1 failed.	service-stop by resource-acterr	-	0	0	0					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Information	1204	The system will be shut down since starting the resource %1 failed.	shutdown-system by resource-acterr	-	0	0	0					
rc	Information	1205	The system will be re-booted since starting the resource %1 failed.	reboot-system by resource-acterr	-	0	0	0					
rc	Information	1220	The resource %1 will be stopped again since stopping the resource %2 failed.	resource-stop retry by resource-deacterr	-	0	0	0					
rc	Information	1223	The cluster service will be stopped since stopping the resource %1 failed.	service-stop by resource-deacterr	-	0	0	0					
rc	Information	1224	The system will be shut down since stopping the resource %1 failed.	shutdown-system by resource-deacterr	-	0	0	0					
rc	Information	1225	The system will be re-booted since stopping the resource %1 failed.	reboot-system by resource-deacterr	-	0	0	0					
rc	Information	1241	Hardware reset will be generated since starting the resource %1 failed.	hw-reset by resource-acterr	-	0	0	0					
rc	Information	1242	STOP error will be generated since starting the resource %1 failed.	stop-error by resource-acterr	-	0	0	0					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Information	1281	Hardware reset will be generated since stopping the resource %1 failed.	hw-reset by resource-deacterr	-	0	0	0					
rc	Information	1282	STOP error will be generated since stopping the resource %1 failed.	stop-error by resource-deacterr	-	0	0	0					
rc	Information	1300	Script before final action upon activation failure in resource %1 started.	Script before final action upon resource activation failure started.	-	0	0	0					
rc	Information	1301	Script before final action upon activation failure in resource %1 completed.	Script before final action upon resource activation failure completed.	-	0	0	0					
rc	Information	1302	Script before final action upon deactivation failure in resource %1 started.	Script before final action upon resource deactivation failure started.	-	0	0	0					
rc	Information	1303	Script before final action upon deactivation failure in resource %1 completed.	Script before final action upon resource deactivation failure completed.	-	0	0	0					
rc	Information	1304	Script before activation in resource %1 started.	Script before resource activation started.	-	0	0	0					
rc	Information	1305	Script before activation in resource %1 completed.	Script before resource activation completed.	-	0	0	0					
rc	Information	1306	Script after activation in resource %1 started.	Script after resource activation started.	-	0	0	0					

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Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Information	1307	Script after activation in resource %1 completed.	Script after resource activation completed.	-	o	o	o					
rc	Information	1308	Script before deactivation in resource %1 started.	Script before resource deactivation started.	-	o	o	o					
rc	Information	1309	Script before deactivation in resource %1 completed.	Script before resource deactivation completed.	-	o	o	o					
rc	Information	1310	Script after deactivation in resource %1 started.	Script after resource deactivation started.	-	o	o	o					
rc	Information	1311	Script after deactivation in resource %1 completed.	Script after resource deactivation completed.	-	o	o	o					
rc	Error	1340	Script before final action upon activation failure in resource %1 failed.	Script before final action upon resource activation failure failed.	Check the cause of the script failure and take measures.	o	o	o					o
rc	Error	1341	Script before final action upon deactivation failure in resource %1 failed.	Script before final action upon resource deactivation failure failed.	Check the cause of the script failure and take measures.	o	o	o					o
rc	Error	1342	Failed to execute script before activation in resource %1.	Script before resource activation failed.	Check the cause of the script failure and take measures.	o	o	o					o
rc	Error	1343	Failed to execute script after activation in resource %1.	Script after resource activation has failed.	Check the cause of the script failure and take measures.	o	o	o					o
rc	Error	1344	Failed to execute script before deactivation in resource %1.	Script before resource deactivation failed.	Check the cause of the script failure and take measures.	o	o	o					o

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Error	1345	Failed to execute script after deactivation in resource %1.	Script after resource deactivation failed.	Check the cause of the script failure and take measures.	o	o	o				o	
rc	Error	1346	Failed to log on as a user.	Logon as a user failed	Check if the domain, account and password of the execution user are correctly set.	o	o	o					
rc	Information	1400	The status of the regular check for a forced stop returned to normal.	Normal status for a forced stop	-	o	o	o					
rc	Error	1401	The regular check for a forced stop detected an abnormality.	Abnormal status for a forced stop	The forced-stop function may not be working normally. Identify the cause.	o	o	o					
rc	Error	1402	The request for forcibly stopping the server has been timed out.	Timeout of the forced-stop request	Identify the cause of the timeout and take measures.	o	o	o					
rc	Information	1403	The request for forcibly stopping the server will be retried.	Retrying the forced-stop request	-	o	o	o					
rc	Error	1404	The check of forcibly stopping the server has been timed out.	Timeout of the forced-stop check	Identify the cause of the timeout and take measures.	o	o	o					
rc	Information	1405	The check of forcibly stopping the server will be retried.	Retrying the forced-stop check	-	o	o	o					
rc	Warning	1427	Group failover has been canceled because forced stop of server %1 failed.	Suppression of failover for forced stop failed	Check the cause of the forced stop failure and take measures.	o	o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Warning	1450	Cluster action is disabled.	Cluster action is disabled.	-	o	o	o					
rc	Warning	1451	Ignored the automatic start of groups because automatic group startup is disabled.	Automatic group startup is not executed.	-	o	o	o					
rc	Warning	1452	Ignored the recovery action in resource activation because recovery action caused by group resource activation error is disabled.	Resource recovery action is not executed.	-	o	o	o					
rc	Warning	1453	Ignored the recovery action in resource deactivation because recovery action caused by group resource deactivation error is disabled.	Resource recovery action is not executed.	-	o	o	o					
rc	Information	1454	Cluster action is set disabled.	Cluster action is disabled.	-	o	o	o					
rc	Information	1455	Cluster action is set enabled.	Cluster action is enabled.	-	o	o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Warning	1456	Cluster operation is forcibly disabled since a valid license has not been registered.	Cluster operation is forcibly disabled (License disabled).	Register the license. Canceling the forcible disablement of cluster operation requires up to 1 hour after the license is registered. To cancel it immediately, suspend and resume the cluster after the license registration.	o	o	o					
rc	Information	1457	The forcible disablement of cluster operation was canceled since the valid licenses are registered.	Forcible disablement of cluster operation is canceled.	-	o	o	o					
rc	Warning	1458	Ignored the group failover because failover for a server failure is disabled.	Group failover is not executed.	-	o	o	o					
rc	Information	1470	Server %1 has been set as the destination for the group %2 (reason: %3).	destination found	-	o	o	o					
rc	Warning	1471	There is no appropriate destination for the group %1 (reason: %2).	destination not found	Check if any monitor resources detects an error on the other servers.	o	o	o				o	
rc	Warning	1472	Server %1 is not in a condition to start group %2 (reason: %3).	not in a condition to start group	Check if any monitor resources detects an error on the server.	o	o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Error	1480	Group start has been canceled because waiting for group %1 to start has failed. (%2)	waiting for group to start failed	-	o	o	o					
rc	Warning	1481	Waiting for group %1 to start has failed. However, group start continues. (%2)	waiting for group to start failed	-	o	o	o					
rc	Error	1482	Group start has been canceled because waiting for group %1 to start has canceled.	waiting for group to start canceled	-	o	o	o					
rc	Warning	1483	Waiting for group %1 to start has canceled. However, group start continues.	waiting for group to start canceled	-	o	o	o					
rc	Error	1484	Group stop has been canceled because waiting for group %1 to stop has failed. (%2)	waiting for group to stop failed	-	o	o	o					
rc	Warning	1485	Waiting for group %1 to stop has failed. However, group stop continues. (%2)	waiting for group to stop failed	-	o	o	o					
rc	Error	1486	Group stop has been canceled because waiting for group %1 to stop has canceled.	waiting for group to stop canceled	-	o	o	o					

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Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Warning	1487	Waiting for group %1 to stop has canceled. However, group stop continues.	waiting for group to stop canceled	-	o	o	o					
rc	Information	1490	Group %1 started to check the double activation.	check the double activation started	-			o					
rc	Information	1491	Group %1 completed to check the double activation.	check the double activation ended	-			o					
rc	Error	1492	Group %1 failed to check the double activation.	check the double activation failed	Check the status of the group.	o	o	o				o	
rc	Information	1493	Waiting for group %1 to start for check the double activation.	group start continues for check the double activation	Check the status of the group.	o	o	o					
rm	Information	1501	Monitor %1 has been started.	Monitor start	-	o	o	o					
rm	Information	1502	Monitor %1 has been stopped.	Monitor stop	-	o	o	o					
rm	Information	1503	Monitor %1 does not monitor in this server.	Not target server	-	o	o	o					
rm	Warning	1504	Monitor %1 is in the warning status. (%2 : %3)	Monitor warn	Check the cause of Warning.	o	o	o				o	
rm	Warning	1505	The number of monitor resources reached the maximum number. (registered resource: %1)	invalid number of monitor resource	Check the cluster configuration data.	o	o	o				o	
rm	Warning	1506	Configuration of %1 is invalid. (%2 : %3)	invalid monitor resource	Check the cluster configuration data.	o	o	o				o	

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Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rm	Error	1507	Failed to start monitor %1.	monitor starting failed	The system may not be able to operate properly.	o	o	o	o	o		o	o
rm	Error	1508	Failed to stop monitor %1.	monitor stopping failed	The system may not be able to operate properly.	o	o	o				o	
rm	Error	1509	Monitor %1 detected an error. (%2 : %3)	monitor failed	Check the cause for monitor error.	o	o	o	o	o		o	o
rm	Information	1510	Monitor %1 is not monitored.	not monitored	-	o	o	o					
rm	Information	1511	Monitor resource has not been registered.	unregistered monitor resource	-	o	o	o					
rm	Information	1512	%1 was stopped for failure in monitor %2.	relation stop	-	o	o	o					
rm	Information	1513	%1 was restarted for failure in monitor %2.	relation restart	-	o	o	o					
rm	Information	1514	%1 was failed over for failure in monitor %2.	relation group failover	-	o	o	o					
rm	Information	1515	There was a request to stop cluster for failure in monitor %1.	cluster stop	-	o	o	o					
rm	Information	1516	There was a request to shut down the system for failure in monitor %1.	system shutdown	-	o	o	o					
rm	Information	1517	There was a request to restart the system for failure in monitor %1.	system reboot	-	o	o	o					
rm	Error	1518	Failed to stop %1 due to error detection of %2.	relation stop failure	Check the status of resources.	o	o	o				o	

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rm	Error	1519	Failed to restart %1 due to error detection of %2.	relation restart failure	Check the status of resources.	o	o	o				o	
rm	Error	1520	Failed to fail over %1 due to error detection of %2.	relation group failover failure	Check the status of resources.	o	o	o				o	
rm	Error	1521	Failed to stop the cluster due to error detection of %1.	cluster stop failure	The system may not be able to operate properly.	o	o	o				o	
rm	Error	1522	Failed to shut down the system due to error detection of %1.	os shutdown failure	The system may not be able to operate properly.	o	o	o				o	
rm	Error	1523	Failed to restart the system due to error detection of %1.	os reboot failure	The system may not be able to operate properly.	o	o	o				o	
rm	Error	1524	The group of monitor %1 is unknown.	unknown group	Check the cluster configuration data.	o	o	o				o	
rm	Warning	1525	No action is taken because %1 is not on-line.	not perform failure action	-	o	o	o				o	
rm	Information	1526	Status of monitor %1 was returned to normal.	status changed into normal	-	o	o	o					
rm	Information	1527	Status of monitor %1 was changed into unknown.	status changed into unknown	The system may not be able to operate properly.	o	o	o					
rm	Error	1528	Initialization error has occurred (%1 : %2)	process initialize error	The system may not be able to operate properly.	o	o	o				o	
rm	Information	1529	Monitor %1 was suspended.	suspend (single monitor)	-	o	o	o					
rm	Information	1530	Monitor %1 was resumed.	resume (single monitor)	-	o	o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rm	Information	1531	All monitors were suspended.	suspend (all monitors)	-	o	o	o					
rm	Information	1532	All monitors were resumed.	resume (all monitors)	-	o	o	o					
rm	Information	1533	The polling interval of monitor %1 was changed into %2*%3.	change polling interval (single monitor)	-	o	o	o					
rm	Information	1534	The polling interval ratio of all monitors were changed into %1.	change polling interval (all monitors)	-	o	o	o					
rm	Information	1535	Causing intentional stop error was required because an error is detected by %1.	intentional panic	-	o	o	o					
rm	Error	1536	Causing intentional stop error has failed because an error is detected by %1.	intentional panic failure	The system may not be able to operate properly.	o	o	o					o
rm	Warning	1537	Recovery will not be executed since server is suspending.	not recovery(server suspending)	Monitor resource is not recovered if the server is suspended (Network Partition Unsolved). Check the cause for being suspended (Network Partition Unsolved) and recover network partition resources to the normal status.	o	o	o					o

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rm	Warning	1538	No action is taken because any recovery target is not online.	not recovery (all groups)	-	0	0	0					
rm	Warning	1539	No action is taken because the group is set for the recovery target %1 is not online.	not recovery (group)	-	0	0	0					
rm	Warning	1571	Monitor %1 was delayed. (timeout=%2, response time=%3, rate=%4)	monitor delayed	Check the load on the server where monitoring delay was detected and reduce the load. Set longer timeout if the monitoring timeout is detected.	0	0	0				0	
rm	Warning	1572	Monitor %1 could not perform monitoring.	Delay in internal processing	The system may not be able to operate properly.	0	0	0					
rm	Warning	1600	Shutdown count reached the maximum number (%1). Final action of monitor %2 was ignored.	reached OS shutdown limit	-	0	0	0	0	0		0	0
rm	Warning	1601	Since there is no other normally running server, the final action (%1) for the error detection of monitor resource %2 was suppressed.	Suppression of final action for error detection	-	0	0	0					
rm	Info	1602	The number of reboots due to monitor resource errors has been reset.	Resetting the reboot count (monitor resource)	-	0	0	0					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rm	Information	1700	Script before action(%1) upon failure in %2 monitor resource started.	Script before final action upon monitor resource failure started.	-	o	o	o					
rm	Information	1701	Script before action(%1) upon failure in %2 monitor resource completed.	Script before final action upon monitor resource failure completed.	-	o	o	o					
rm	Information	1720	Script before action(%1) upon failure in %2 monitor resource failed.	Script before final action upon monitor resource failure has failed.	-	o	o	o					
rm	Information	1750	The collecting of detailed information triggered by monitoring %1 error has been started (timeout=%2).	The collecting of detailed information has been started.	-	o	o	o					
rm	Information	1751	The collection of detailed information triggered by monitoring %1 error has been completed.	The collection of detailed information has been completed.	-	o	o	o					
rm	Information	1752	The collection of detailed information triggered by monitoring %1 error has been failed (%2).	The collection of detailed information has been failed.	-	o	o	o					
rm	Information	1800	The %1 service will be started by cluster system.	start service	-	o	o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rm	Information	1801	The %1 service will be started again because the service has been stopped by cluster system. (retry: %2/%3)	start service (retry)	-	0	0	0					
rm	Information	1802	The %1 service will be resumed by cluster system.	resume service	-	0	0	0					
rm	Information	1803	The %1 service will be resumed again because the service has been suspended by cluster system. (retry: %2/%3)	resume service (retry)	-	0	0	0					
rm	Information	1804	The %1 service will be stopped by cluster system.	stop service	-	0	0	0					
rm	Information	1805	The %1 service entered the running state.	service running	-	0	0	0					
rm	Information	1806	The %1 service entered the stopped state.	service stopped	-	0	0	0					
rm	Warning	1811	Start request of the %1 service failed. Check the service status.	failed to start service	Check the service status.	0	0	0					
rm	Warning	1812	Resume request of the %1 service failed. Check the service status.	failed to resume service	Check the service status.	0	0	0					
rm	Warning	1813	Stop request of the %1 service failed. Check the service status.	failed to stop the service	Check the service status.	0	0	0					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rm	Warning	1816	The %1 service has been stopped by other than cluster system.	service stopped (error)	Check the cause of the service stopped.	o	o	o					
rm	Warning	1817	The %1 service has been suspended by other than cluster system.	service suspended (error)	Check the cause of the service suspended.	o	o	o					
rm	Warning	1819	Start or resume retry count for the %1 service exceeded the threshold (%2).	start or resume retry count exceeded the threshold	-	o	o	o					
rm	Information	1820	The cluster will be stopped because there was a failure in %1 service monitoring.	cluster stop (failure in service monitoring)	-	o	o	o					
rm	Information	1821	The system will be shut down because there was a failure in %1 service monitoring.	system shut down (failure in service monitoring)	-	o	o	o					
rm	Information	1822	The cluster will be rebooted because there was a failure in %1 service monitoring.	system reboot (failure in service monitoring)	-	o	o	o					
rm	Error	1870	Monitor resource %1 cannot be controlled because the license is invalid.	cannot control monitor (invalid license)	Check if the license is registered or the license is valid.	o	o	o					
rm	Information	1890	Recovery script has executed because an error was detected in monitoring %1.	Recovery script upon monitor resource failure executed		o	o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rm	Error	1891	Attempted to execute recovery script due to the error detected in monitoring %1, but failed.	failed to execute recovery script	Check the cause of the recovery script failure and take measures.	o	o	o					
rm	Error	1892	Failed to log on as a user.	Logon as a user failed	Check if the domain, account and password of the execution user are correctly set.	o	o	o					
rm	Information	1910	Dummy Failure of monitor resource %1 is enabled.	enable dummy failure	-	o	o	o					
rm	Information	1911	Dummy Failure of monitor resource %1 is disabled.	disable dummy failure	-	o	o	o					
rm	Information	1912	Dummy Failure of all monitors will be enabled.	enable dummy failure (all monitors)	-	o	o	o					
rm	Information	1913	Dummy Failure of all monitors will be disabled.	disable dummy failure (all monitors)	-	o	o	o					
rm	Warning	1914	An attempt was made to enable Dummy Failure of monitor resource %1, but failed.	failed to enable dummy failure	-	o	o	o					
rm	Warning	1915	An attempt was made to disable Dummy Failure of monitor resource %1, but failed.	failed to disable dummy failure	-	o	o	o					
rm	Information	1930	Recovery reaction caused by monitor resource error is disabled.	disable recovery action caused by monitor resource error	-	o	o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rm	Information	1931	Recovery action caused by monitor resource error is enabled.	enable recovery action caused by monitor resource error	-	o	o	o					
rm	Warning	1932	Ignored the recovery action in monitoring %1 because recovery action caused by monitor resource error is disabled.	not recovery (recovery action caused by monitor resource error has disabled)	-	o	o	o					
rm	Warning	1933	Recovery action at timeout occurrence was disabled, so the recovery action of monitor %1 was not executed.	disable recovery action caused by monitor resource timeout	-	o	o	o					
event	Information	2101	%1 service has been started.	Start service	-		o						
event	Information	2102	%1 service has been stopped.	Stop service	-		o						
event	Warning	2130	Timeout or other error has occurred while waiting for internal threads to stop. Detected internal error %1.	Threads were timeout	The system may not be able to operate properly.	o	o					o	
event	Error	2150	The specified parameters are invalid. Check the cluster configuration data.	Invalid configuration	Check the cluster configuration data.	o	o						o
event	Error	2151	Failed to obtain the policy data. Check the data.	Invalid configuration	Check the policy file.	o	o						o

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Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
event	Error	2152	Failed to obtain the registry data. System may be unable to operate correctly.	Failed to read registry	The system may not be able to operate properly.	o	o					o	
event	Error	2153	Failed to dispatch to the service manager. System may be unable to operate correctly.	Dispatch failed	The system may not be able to operate properly.	o	o					o	
event	Error	2154	Failed to create an internal resource. System may be unable to operate correctly.	failed to resource creation	The system may not be able to operate properly.	o	o					o	
event	Error	2155	Failed to create communication sockets. System may be unable to operate correctly.	failed to socket creation	The system may not be able to operate properly.	o	o					o	
event	Error	2156	Failed to control the shared memory. System may be unable to operate correctly.	failed to shared memory control	The system may not be able to operate properly.	o	o					o	
event	Error	2157	Failed to generate internal threads. System may be unable to operate correctly.	failed to thread creation	The system may not be able to operate properly.	o	o					o	
event	Error	2158	Failed to initialize the settings of the log storage period. With the settings invalid, the system will be started.	Failed to initialize the settings of the log storage period	The system may not be able to operate properly.	o	o					o	

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
event	Error	2199	Other internal error has occurred. System may be unable to operate correctly.	Internal Error	The system may not be able to operate properly.	o	o					o	
trnsv	Error	2301	There was a notification from external (IP=%1), but it was denied.	Connection limit by client IP address	Check the client IP address from which the connection is permitted.	o	o	o					
trnsv	Information	2310	There was a notification (%1) from external (IP=%2).	Received an abnormality occurrence notification from outside	-	o	o	o					
trnsv	Information	2320	Recovery action (%1) of monitoring %2 has been executed because a notification arrived from external.	Executed the recovery action at abnormality occurrence	-	o	o	o					
trnsv	Information	2321	Recovery action (%1) of monitoring %2 has been completed.	Completed the recovery action at abnormality occurrence	-	o	o	o					
trnsv	Error	2322	Attempted to recovery action (%1) of monitoring %2 due to the notification from external, but failed.	Failed to execute the recovery action at abnormality occurrence	Make sure that the recovery action on the environment is executable.	o	o	o					
trnsv	Information	2330	Action (%1) has been completed.	The requested action completed	-	o	o	o					
trnsv	Error	2331	Attempted to execute action (%1), but it failed.	The requested action Failed	Make sure that the recovery action is an executable environment.	o	o	o					
trnsv	Information	2340	Script before action of monitoring %1 has been executed.	Script execution started	-	o	o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
trnsv	Information	2341	Script before action of monitoring %1 has been completed.	Script execution completed	-	o	o	o					
trnsv	Error	2342	Attempted to execute script before action of monitoring %1, but it failed.	Script execution failed	Handle the problem after making sure the cause of script failure.	o	o	o					
trnsv	Error	2350	The system will be shut-down because cluster resume was failed.	Failed to resume the cluster daemon	-	o	o	o					
trnsv	Error	2351	An attempt to shutdown the system failed.	Failed to shutdown the system	The system may not be able to operate properly.	o	o	o					
trnsv	Error	2360	The log storage destination (%1) is not found.	Finding the log storage destination failed.	Check if the specified log storage destination exists.	o	o	o					
trnsv	Error	2361	A path under the installation path is specified for the log storage destination.	The log storage destination is incorrect.	For the log storage destination, avoid specifying a path under the installation path.	o	o	o					
trnsv	Error	2370	Failed to execute the Amazon CloudWatch linkage function. (%1)	%1:The user is not permitted to execute the function.	Check the permission for the cloud service.	o	o	o					
				%1:An internal error has occurred.	Check the configuration of the Amazon CloudWatch linkage function.	o	o	o					

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Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
lankhb	Error	2851	Keep-alive timeout was detected on the server %1.	Keep-alive timeout	There is a server where keep-alive timeout is detected. Check the server error.	o	o	o				o	
lankhb	Error	2852	STOP error was detected on the server %1. (source:%2, exit code:%3)	STOP error	There is a server where STOP error is detected. Remove the failure of the server.	o	o	o				o	
lankhb	Error	2853	Hardware reset was detected on the server %1. (source:%2, exit code:%3)	Hardware reset	There is a server where hardware reset is detected. Remove the failure of the server.	o	o	o				o	
ptun	Warning	3301	The parameter (%1) exceeded the threshold (%2 p.c.). Timeout value=%3(sec) Data=%4(sec)	Delay warning	The parameter exceeded the threshold. Set an appropriate value to the parameter.	o	o	o				o	
ptun	Warning	3302	The parameter (%1) exceeded the threshold (%2 p.c.). Timeout value=%3 Data=%4 Server=%5 Resource=%6	Delay warning	The parameter exceeded the threshold. Set an appropriate value to the parameter.	o	o	o				o	
lcns	Information	3551	The trial license is valid until %1. (Product name:%2)	Trial version license (normal)	-	o	o						
lcns	Error	3552	The trial license has expired in %1. (Product name:%2)	Trial version license (expired)	Register the license.	o	o	o				o	

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
lcns	Warning	3553	The number of licenses is insufficient. The number of insufficient licenses is %1. (Product name:%2)	Insufficient	Register the license.	o	o					o	
lcns	Error	3554	The license is not registered. (Product name:%1)	Not registered	Register the license.	o	o	o				o	
lcns	Error	3555	The same license is registered with other servers. (Product name:%1)	Repetition registered	Delete the overlapping license.	o	o	o				o	
lcns	Error	3556	Manufacturer or model of this server is invalid.	Invalid manufacturer or model	Confirm the manufacturer or model.	o	o	o				o	
lcns	Error	3558	The registered license is invalid. (Product name:%1, Serial No:%2)	The license is invalid.	Register the valid license.	o	o	o				o	
lcns	Information	3559	The fixed term license is effective until %1. (Product name:%2)	Fixed term license (normal)	-	o	o						
lcns	Error	3560	The fixed term license has expired in %1. (Product name:%2)	Fixed term license (expired)	Register the license.	o	o	o				o	
logcmd	Information	3601		log command	-	o	x	x	x	x	x	x	x
diskw	Warning	3701	Monitor %1 was delayed. (timeout=%2 response time=%3 rate=%4)	monitor delayed	-	o	o	o				o	
userw	Warning	3711	Monitor %1 was delayed. (timeout=%2 response time=%3 rate=%4)	monitor delayed	-	o	o	o				o	

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Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
mail	Error	4101	mail failed(%1).(SMTP server: %2)	Mail failed	Make sure there is no error in the SMTP server and no problem communicating with the SMTP server.	o	o	o				o	
mail	Information	4102	mail succeed.(SMTP server: %1)	Mail succeeded	-		o	o					
apisv	Information	4301	There was a request to stop cluster from the %1(IP=%2).	Cluster stop	-	o		o					
apisv	Information	4302	There was a request to shutdown cluster from the %1(IP=%2).	Cluster shutdown	-	o		o					
apisv	Information	4303	There was a request to reboot cluster from the %1(IP=%2).	Cluster restart	-	o		o					
apisv	Information	4304	There was a request to suspend cluster from the %1(IP=%2).	Cluster suspend	-	o		o					
apisv	Information	4310	There was a request to stop server from the %1(IP=%2).	Cluster service stop	-	o		o					
apisv	Information	4311	There was a request to shutdown server from the %1(IP=%2).	Shutdown	-	o		o					
apisv	Information	4312	There was a request to reboot server from the %1(IP=%2).	Restart	-	o		o					
apisv	Information	4330	There was a request to start group(%1) from the %2(IP=%3).	Group start	-	o		o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
apisv	Information	4331	There was a request to start all groups from the %1(IP=%2).	All group start	-	o		o					
apisv	Information	4332	There was a request to stop group(%1) from the %2(IP=%3).	Group stop		o		o					
apisv	Information	4333	There was a request to stop all groups from the %1(IP=%2).	All group stop	-	o		o					
apisv	Information	4334	There was a request to restart group(%1) from the %2(IP=%3).	Group restart	-	o		o					
apisv	Information	4335	There was a request to restart all groups from the %1(IP=%2).	All group restart	-	o		o					
apisv	Information	4336	There was a request to move group(%1) from the %2(IP=%3).	Group move	-	o		o					
apisv	Information	4337	There was a request to move all groups from the %1(IP=%2).	All group move	-	o		o					
apisv	Information	4338	There was a request to failover group(%1) from the %2(IP=%3).	Group failover	-	o		o					
apisv	Information	4339	There was a request to failover all groups from the %1(IP=%2).	All group failover	-	o		o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
apisv	Information	4340	There was a request to migrate group(%1) from the %2(IP=%3).	Group migration	-	0		0					
apisv	Information	4341	There was a request to migrate all groups from the %1(IP=%2).	All group migration	-	0		0					
apisv	Information	4342	There was a request to failover all groups from the %1(IP=%2).	All group failover	-	0		0					
apisv	Information	4343	There was a request to cancel waiting for the dependence destination group of group %1 was issued from the %2.	Cancel waiting	-	0		0					
apisv	Information	4350	There was a request to start resource(%1) from the %2(IP=%3).	Resource start	-	0		0					
apisv	Information	4351	There was a request to start all resources from the %1(IP=%2).	All resource start	-	0		0					
apisv	Information	4352	There was a request to stop resource(%1) from the %2(IP=%3).	Resource stop	-	0		0					
apisv	Information	4353	There was a request to stop all resources from the %1(IP=%2).	All resource stop	-	0		0					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
apisv	Information	4354	There was a request to restart resource(%1) from the %2(IP=%3).	Resource restart	-	0		0					
apisv	Information	4355	There was a request to restart all resources from the %1(IP=%2).	All resource restart	-	0		0					
apisv	Information	4360	There was a request to suspend monitor resources from the %1(IP=%2).	Monitor temporary stop	-	0		0					
apisv	Information	4361	There was a request to resume monitor resources from the %1(IP=%2).	Monitor restart	-	0		0					
apisv	Information	4362	There was a request to enable Dummy Failure of monitor resource(%1) from the %2(IP=%3).	Dummy Failure enabled	-	0		0					
apisv	Information	4363	There was a request to disable Dummy Failure of monitor resource(%1) from the %2(IP=%3).	Dummy Failure disabled	-	0		0					
apisv	Information	4364	There was a request to disable Dummy Failure of all monitor resources from the %1(IP=%2).	All Dummy Failure disabled	-	0		0					
apisv	Error	4401	A request to stop cluster was failed(%1).	Cluster stop failure	Check the cluster status.	0		0					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
apisv	Error	4402	A request to shutdown cluster was failed(%1).	Cluster shut-down failure	Check the cluster status.	o		o					
apisv	Error	4403	A request to reboot cluster was failed(%1).	Cluster restart failure	Check the cluster status.	o		o					
apisv	Error	4404	A request to suspend cluster was failed(%1).	Cluster suspend failure	Check the cluster status.	o		o					
apisv	Error	4410	A request to stop server was failed(%1).	Cluster service stop failure	Check the cluster status.	o		o					
apisv	Error	4411	A request to shutdown server was failed(%1).	Server shut-down failure	Check the server status.	o		o					
apisv	Error	4412	A request to reboot server was failed(%1).	Server restart failure	Check the server status.	o		o					
apisv	Error	4430	A request to start group(%1) was failed(%2).	Group start failure	Check the group status.	o		o					
apisv	Error	4431	A request to start all groups was failed(%1).	All group start failure	Check the group status.	o		o					
apisv	Error	4432	A request to stop group(%1) was failed(%2).	Group stop failure	Check the group status.	o		o					
apisv	Error	4433	A request to stop all groups was failed(%1).	All group stop failure	Check the group status.	o		o					
apisv	Error	4434	A request to restart group(%1) was failed(%2).	Group restart failure	Check the group status.	o		o					
apisv	Error	4435	A request to restart all groups was failed(%1).	All group restart failure	Check the group status.	o		o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
apisv	Error	4436	A request to move group(%1) was failed(%2).	Group move failure	Check the group status.	o		o					
apisv	Error	4437	A request to move all groups was failed(%1).	All group move failure	Check the group status.	o		o					
apisv	Error	4438	A request to failover group(%1) was failed(%2).	Group failover failure	Check the group status.	o		o					
apisv	Error	4439	A request to failover all groups was failed(%1).	All group failover failure	Check the group status.	o		o					
apisv	Error	4440	A request to migrate group(%1) was failed(%2).	Group migration failure	Check the group status.	o		o					
apisv	Error	4441	A request to migrate all groups was failed(%1).	All group migration failure	Check the group status.	o		o					
apisv	Error	4442	A request to failover all groups was failed(%1).	All group failover failure	Check the group status.	o		o					
apisv	Error	4443	A request to cancel waiting for the dependency destination group of group %s has failed(%1).	Cancel waiting failure	Check the group status.	o		o					
apisv	Error	4450	A request to start resource(%1) was failed(%2).	Resource start failure	Check the resource status.	o		o					
apisv	Error	4451	A request to start all resources was failed(%1).	All resource start failure	Check the resource status.	o		o					
apisv	Error	4452	A request to stop resource(%1) was failed(%2).	Resource stop failure	Check the resource status.	o		o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
apisv	Error	4453	A request to stop all resources was failed(%1).	All resource stop failure	Check the resource status.	o		o					
apisv	Error	4454	A request to restart resource(%1) was failed(%2).	Resource restart failure	Check the resource status.	o		o					
apisv	Error	4455	A request to restart all resources was failed(%1).	All resource restart failure	Check the resource status.	o		o					
apisv	Error	4460	A request to suspend monitor resource was failed(%1).	Monitor temporary stop failure	Check the monitor resource status.	o		o					
apisv	Error	4461	A request to resume monitor resource was failed(%1).	Monitor restart failure	Check the monitor resource status.	o		o					
apisv	Error	4462	A request to enable Dummy Failure of monitor resource(%1) was failed(%2).	Dummy Failure enabled	Check the monitor resource status.	o		o					
apisv	Error	4463	A request to disable Dummy Failure of monitor resource(%1) was failed(%2).	Dummy Failure disabled	Check the monitor resource status.	o		o					
apisv	Error	4464	A request to disable Dummy Failure of all monitor resource was failed(%1).	All Dummy Failure disabled	Check the monitor resource status.	o		o					
apisv	Error	4480	Initializing internal communication (%1) failed (port=%2).	Initializing internal communication failed.	Check if an application other than EXPRESSCLUSTER uses the port.	o		o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
userw	Warning	5001	Monitor %1 was delayed. (timeout=%2 response time=%3 rate=%4)	Monitor delayed	-	o	o	o				o	
genw	Warning	5151	The script(%1) was re-activated because it was disappeared.(%2)	The target script was rebooted. %1:Script name %2:Monitor resource name	-	o	o						
db2 ftp http imap4 odbc oracle otx pop3 psql smtp sqlserver tux was wls	Warning	10001	%1	Error message for each monitored application.	Take appropriate action for the application failure by following the error message.	o	x	x	x	x	x	x	x

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Event Messages	Description	Solution	1	2	3	4	5	6	7	8
db2w ftpw httpw imap4w odbcw oraclew otxw pop3w psqlw smtpw sqlserverw tuxw wasw wls db2 ftp http imap4 odbc oracle otx pop3 psql smtp sqlserver tux was wls	Warning	10002	The API Error of Windows occurred.%1	API error of Windows has occurred. %1 is API error code.	Take appropriate action for the OS failure by following the error code.	o	x	x	x	x	x	x	x
mrw	Warning	4901	Monitor %1 is in the warning status. (%2 : %3)	Monitor warn	Check the cause of Warning.	o	o	o				o	
mrw	Warning	4902	Configuration of %1 is invalid. (%2 : %3)	invalid monitor resource	Check the cluster configuration data.	o	o	o				o	
mrw	Error	4903	Failed to start monitor %1.	monitor starting failed	The system may not be able to operate properly.	o	o	o	o	o		o	o

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
mrw	Error	4904	Failed to stop monitor %1.	monitor stopping failed	The system may not be able to operate properly.	0	0	0				0	
mrw	Error	4905	Monitor %1 detected an error. (%2 : %3)	monitor failed	Check the cause for monitor error.	0	0	0	0	0		0	0
mrw	Information	4906	Monitor resource has not been registered.	unregistered monitor resource	-	0	0	0					
mrw	Information	4907	%1 was stopped for failure in monitor %2.	relation stop	-	0	0	0					
mrw	Information	4908	%1 was restarted for failure in monitor %2.	relation restart	-	0	0	0					
mrw	Information	4909	%1 was failed over for failure in monitor %2.	relation group failover	-	0	0	0					
mrw	Information	4910	There was a request to stop cluster for failure in monitor %1.	cluster stop	-	0	0	0					
mrw	Information	4911	There was a request to shut down the system for failure in monitor %1.	system shutdown	-	0	0	0					
mrw	Information	4912	There was a request to restart the system for failure in monitor %1.	system reboot	-	0	0	0					
mrw	Information	4913	Failed to stop %1 due to error detection of %2.	relation stop failure	Check the status of resources.	0	0	0				0	
mrw	Error	4914	Failed to restart %1 due to error detection of %2.	relation restart failure	Check the status of resources.	0	0	0				0	

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
mrw	Error	4915	Failed to fail over %1 due to error detection of %2.	relation group failover failure	Check the status of resources.	o	o	o				o	
mrw	Error	4916	Failed to stop the cluster due to error detection of %1.	cluster stop failure	The system may not be able to operate properly.	o	o	o				o	
mrw	Error	4917	Failed to shut down the system due to error detection of %1.	os shutdown failure	The system may not be able to operate properly.	o	o	o				o	
mrw	Error	4918	Failed to restart the system due to error detection of %1.	os reboot failure	The system may not be able to operate properly.	o	o	o				o	
mrw	Error	4919	The group of monitor %1 is unknown.	unknown group	Check the cluster configuration data.	o	o	o				o	
mrw	Warning	4920	No action is taken because %1 is not on-line.	not perform failure action	-	o	o	o				o	
mrw	Information	4921	Status of monitor %1 was returned to normal.	status changed into normal	-	o	o	o					
mrw	Information	4922	Status of monitor %1 was changed into unknown.	status changed into unknown	The system may not be able to operate properly.	o	o	o					
mrw	Error	4923	Initialization error has occurred (%1 : %2)	process initialize error	The system may not be able to operate properly.	o	o	o				o	
mrw	Information	4924	Causing intentional stop error was required because an error is detected by %1.	intentional panic	-	o	o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
mrw	Error	4925	Causing intentional stop error has failed because an error is detected by %1.	intentional panic failure	The system may not be able to operate properly.	0	0	0				0	
mrw	Warning	4926	Recovery will not be executed since server is suspending.	not recovery(server suspending)	Monitor resource is not recovered if the server is suspended (Network Partition Unsolved). Check the cause for being suspended (Network Partition Unsolved) and recover network partition resources to the normal status.	0	0	0				0	
mrw	Warning	4927	Shutdown count reached the maximum number (%1). Final action of monitor %2 was ignored.	reached OS shutdown limit	-	0	0	0	0	0		0	0
mrw	Information	4928	Script before action(%1) upon failure in %2 monitor resource started.	Script before final action upon monitor resource failure started.	-	0	0	0					
mrw	Information	4929	Script before action(%1) upon failure in %2 monitor resource completed.	Script before final action upon monitor resource failure completed.	-	0	0	0					
mrw	Information	4930	Script before action(%1) upon failure in %2 monitor resource failed.	Script before final action upon monitor resource failure has failed.	-	0	0	0					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
mrw	Information	4931	Recovery script has executed because an error was detected in monitoring %1.	Recovery script upon monitor resource failure executed		o	o	o					
mrw	Error	4932	Attempted to execute recovery script due to the error detected in monitoring %1, but failed.	failed to execute recovery script	Check the cause of the recovery script failure and take measures.	o	o	o					
mrw	Warning	4933	Ignored the recovery action in monitoring %1 because recovery action caused by monitor resource error is disabled.	not recovery (recovery action caused by monitor resource error has disabled)	-	o	o	o					
mrw	Information	4934	There was a notification (%1) from external. (detail: %2)	An error notification from external was received.	-	o	o	o					
tuxw	Warning	10004	The API Error of Application occurred.%1	API error of application has occurred. %1 is API error code.	Take appropriate action for the application failure by following the error code.	o							
jra	Error	20251	Internal processing has failed. (%1)	An internal error occurred. %1: Internal error code	Check if JVM monitor resource is running. If not, restart the server.		o						
jra	Error	20252	Startup has failed due to an error of the setting value. (%1)	Specified setting value is invalid. %1: Internal error code	Check if the Java installation path is correct.		o						

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
sra	Error	20301	Service was terminated because reading an SG file failed.	An error occurred in reading the setting file.	Check the message separately issued.		o						
sra	Error	20302	The installation folder name could not be acquired.	The installation folder name could not be acquired.	Restart the cluster, or execute the suspend and resume.		o						
sra	Error	20305	No IModules could be loaded.	Some files required to execute this product do not exist. So, this product failed to start.	Install this product again.		o						
sra	Error	20306	An unexpected error occurred.	An attempt was made to start this product, but failed for some reason or another.	Restart the cluster, or execute the suspend and resume.		o						
sra	Error	20307	Internal error occurred.	This product has terminated abnormally.	See the system log message issued last.		o						
sra	Error	20308	An error has occurred in issuing WMI. %1(ErrorID:0x%2 class:%3) %1: Message %2: Error code %3: Information that could not be acquired	Statistics information could not be acquired. %1: Message %2: Error code %3: Information that could not be acquired	Restart the cluster, or execute the suspend and resume.		o						

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
sra	Warning	20336	Script is timeout. (%1 %2) %1: Script file name %2: Argument	An internal error has occurred.	Check the load status of the server and remove the load.		o						
sra	Information	20346	%1 event succeeded. %1: Event type (Boot, Shutdown, Stop, Start, or Flush)	The operation management command has been executed. The executed event type %1 (boot, shutdown, stop, start, or flush) is output.	-		o						
sra	Warning	20347	%1 was smaller than %2, it changed to minimum value(%3).	The configuration value of the monitoring is not correct. %1: Variable name %2: Variable name %3: configured value	Check the configured value on the Cluster WebUI.		o						
sra	Warning	20348	%1 was too long compared with %2, it changed to %1(%3).	The configuration value of the monitoring is not correct. %1: Variable name %2: Variable name %3: configured value	Check the configured value on the Cluster WebUI.		o						

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
sra	Warning	20349	%1 was smaller than %2, it changed to %2 value(%3).(%4)	The configuration value of the monitoring is not correct. %1: Variable name %2: Variable name %3: configured value %4: Monitor resource name	Check the configured value on the Cluster WebUI.		o						
sra	Warning	20350	%1 was larger than %2, it changed to %2 value(%3).(%4)	The configuration value of the monitoring is not correct. %1: Variable name %2: Variable name %3: configured value %4: Monitor resource name	Check the configured value on the Cluster WebUI.		o						
sra	Warning	20351	%1 was over than Total disk size, (%2 %3).	The configuration value of the monitoring is not correct. %1: Variable name %2: Monitor resource name %3: configured value	Check the configured value on the Cluster WebUI.		o						

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
sra	Warning	20352	%1 was over than Total disk size, (%2 %3).	The configuration value of the monitoring is not correct. %1:Variable name %2:Monitor resource name %3:configured value	Check the configured value on the Cluster WebUI.		o						
sra	Warning	20353	Delete MOUNT[%1] in DiskCapacity list.(%2)	The configuration value of the monitoring is not correct. %1:configured value %2:Monitor resource name	Check the configured value on the Cluster WebUI.		o						
sra	Warning	20354	%1 was illegal value (%2).(%3)	The configuration value of the monitoring is not correct. %1:Variable name %2:configured value %3:Monitor resource name	Check the configured value on the Cluster WebUI.		o						

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
sra	Warning	20355	The DriveLetter of %1 is not ready, or Drive type was not fixed.(%2 DriveLetter = %3)	The configuration value of the monitoring is not correct. %1:Variable name %2:Monitor resource name %3:configured value	Check the configured value on the Cluster WebUI.		o						
sra	Error	20358	A process resource error was detected. (%1 type = cpu, pid = %2, %3)	An error was detected in monitoring the CPU usage rate of the specific process. %1:Monitor resource name %2:Process ID %3:Process name	Check the possible causes of the monitoring failure.	o	o						
sra	Error	20358	A process resource error was detected. (%1 type = memory leak, pid = %2, %3)	An error was detected in monitoring the memory usage of the specific process. %1:Monitor resource name %2:Process ID %3:Process name	Check the possible causes of the monitoring failure.	o	o						

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
sra	Error	20358	A process resource error was detected. (%1 type = file leak, pid = %2, %3)	An error was detected in monitoring the number of the open files of the specific process. %1:Monitor resource name %2:Process ID %3:Process name	Check the possible causes of the monitoring failure.	o	o						
sra	Error	20358	A process resource error was detected. (%1 type = thread leak, pid = %2, %3)	An error was detected in monitoring the number of the threads of the specific process. %1:Monitor resource name %2:Process ID %3:Process name	Check the possible causes of the monitoring failure.	o	o						
sra	Error	20358	A process resource error was detected. (%1 type = same name process, pid = %2, %3)	An error was detected in monitoring a process with the same name. %1:Monitor resource name %2:Process ID %3:Process name	Check the possible causes of the monitoring failure.	o	o						

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
sra	Error	20359	A system resource error was detected. (%1 type = cpu)	An error was detected in monitoring the CPU usage rate of the system. %1:Monitor resource name	Check the possible causes of the monitoring failure.	o	o						
sra	Error	20359	A system resource error was detected. (%1 type = memory)	An error was detected in monitoring the usage amount of the total memories of the system. %1:Monitor resource name	Check the possible causes of the monitoring failure.	o	o						
sra	Error	20359	A system resource error was detected. (%1 type = swap)	An error was detected in monitoring the usage amount of the total virtual memories of the system. %1:Monitor resource name	Check the possible causes of the monitoring failure.	o	o						
sra	Error	20360	A disk resource error was detected. (%1 type = used rate, level = NOTICE, %2)	A notice-level error was detected in monitoring the disk usage rate. %1:Monitor resource name %2:Logical drive	Check the possible causes of the monitoring failure.	o	o						

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
sra	Error	20360	A disk resource error was detected. (%1 type = used rate, level = WARNING, %2)	A warning-level error was detected in monitoring the disk usage rate. %1:Monitor resource name %2:Logical drive	Check the possible causes of the monitoring failure.	o	o						
sra	Error	20360	A disk resource error was detected. (%1 type = free space, level = NOTICE, %2)	A notice-level error was detected in monitoring the free space of disks. %1:Monitor resource name %2:Logical drive	Check the possible causes of the monitoring failure.	o	o						
sra	Error	20360	A disk resource error was detected. (%1 type = free space, level = WARNING, %2)	A warning-level error was detected in monitoring the free space of disks. %1:Monitor resource name %2:Logical drive	Check the possible causes of the monitoring failure.	o	o						
webmgr	Warning	5121	HTTPS configuration isn't correct, HTTPS mode doesn't work. Please access WebManager by HTTP mode.	Invalid HTTPS setting	-	o	o	o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
log	Error	5351	Failed to initialize the settings of the log storage period. The log may be missing. (type=%1)	Failed to initialize the settings of the log storage period	The system may not be able to operate properly.	o	o					o	
sss	Error	20004	Failed to get the system drive letter.	The system drive letter could not be acquired.	The system may not be able to operate properly.			o					
sss	Error	20005	Failed to get the server name.	The server name could not be acquired.	The system may not be able to operate properly.			o					
sss	Info	20006	The server name has been updated.	The server name has been updated.	-	o		o					
sss	Error	20007	Failed to update the configuration file.	The configuration file could not be updated.	Check the configuration data.	o		o					
sss	Info	20008	The configuration file has been updated.	The configuration file has been updated.	-			o					
sss	Error	20009	The content of the configuration file is invalid.	The content of the configuration file is invalid.	Check the configuration data.			o					
sss	Error	20010	Failed to start %1 service.	The %1 service could not be started.	The system may not be able to operate properly.	o		o					
sss	Info	20012	%1 service has been started.	The %1 service has been started.	-			o					
sss	Info	20013	%1 service has been stopped.	The %1 service has been stopped.	-			o					
sss	Info	20014	The redundant module of the LAN board has been started.	The redundant module of the LAN board has been started.	Memory or OS resources may not be sufficient. Check them.			o					
sss	Error	20015	Failed to start the redundant module of the LAN board.	The redundant module of the LAN board could not be started.	-	o		o					

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Table 4.3 – continued from previous page

Module Type	Event Type	Event ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
ncctl	Error	20101	An error was detected in LAN board %1.	An error was detected in LAN board %1.	Check whether the settings of the standby LAN board are correct.	o		o					
ncctl	caution	20102	Changing LAN board %1 to LAN board %2.	LAN board %1 will now be switched to LAN board %2.	-	o		o					
ncctl	Error	20103	The operation of LAN board %1 failed.	The operation of LAN board %1 failed.	-	o		o					

4.3 Driver event log messages

4.3.1 Kernel mode LAN heartbeat driver

The following events are recorded in system event log as the source "clphb".

Event Type	Event ID	Message	Description	Solution
Error	3001	Fatal error occurred in the driver.	Fatal error occurred in the driver.	Kernel memory or OS resource may not be sufficient. Check with performance monitor.
Info	1001	Signal has been set to the shutdown event due to the keep alive timeout.	User space is stalled.	Kernel memory or OS resource may not be sufficient. Check with performance monitor.
Info	1002	Signal has been set to the shutdown event due to the FILTER closing action.	Received FILTER closing action.	Kernel memory or OS resource may not be sufficient. Check with performance monitor.

4.4 Detailed information in activating and deactivating group resources

The following information is displayed in the messages recorded in event logs or alert logs as detail information when the resource activation / deactivation fails.

4.4.1 Application resource

Module Type	Type	Return Value	Message	Description	Solution
appli	Error	5	The application path is invalid.	The application path is invalid.	Check if the application path is correct.
appli	Error	7	Failed to start application.	Failed to start application.	Memory or OS resources may not be sufficient. Check them.
appli	Error	8	Failed to stop application.	Failed to stop application.	Memory or OS resources may not be sufficient. Check them.
appli	Error	10	Timeout occurred.	Timeout occurred.	Check if the application terminates within the timeout period.
appli	Error	11	Failed to log on as a user.	Failed to log on as a user.	Check if a domain, an account and a password of the logon user are set properly.
appli	Error	12	Returned exit code %1.	The non-resident type application returned abnormal error code.	Check the cause for the abnormal error code.
appli	Error	Others	Internal error occurred.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

4.4.2 Script resource

Module Type	Type	Return Value	Message	Description	Solution
script	Error	6	Failed to execute start script.	Failed to execute start script.	Memory or OS resources may not be sufficient. Check them.
script	Error	7	Failed to execute stop script.	Failed to execute stop script.	Memory or OS resources may not be sufficient. Check them.
script	Error	8	Returned exit code %1.	The synchronous type script returned abnormal error code.	Check the cause for the abnormal error code.
script	Error	9	Timeout occurred.	Timeout occurred.	Check if the script terminates within the timeout period.

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Table 4.6 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
script	Error	10	Failed to log on as a user.	Logon as a user failed	Check if the domain, account and password of the execution user are correctly set.
script	Error	Others	Internal error occurred.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

4.4.3 Service resource

Module Type	Type	Return Value	Message	Description	Solution
service	Error	5	Failed to get service control right.	Failed to get service control right.	Check if the service name is correct.
service	Error	6	Failed to start service.	Failed to start service.	Check the status of the service.
service	Error	7	Failed to stop service.	Failed to stop service.	Check the status of the service.
service	Error	8	Service has already been running.	Service has already been running.	Check the status of the service. It is possible to configure settings not to make it an error when the service is already running.
service	Error	10	Timeout occurred.	Timeout occurred.	Check if the service starts or stops within the timeout period.
service	Error	13	Computer name related to service that is running is different from virtual computer name of target VCOM resource.	Computer name related to service that is running is different from virtual computer name of target VCOM resource.	When you set the same service to more than one service, do not set the target VCOM resource name.
service	Error	Others	Internal error occurred.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

4.5 Detailed information of monitor resource errors

The following information is displayed in the message recorded in event logs or alert logs as detail information when monitor resource detects an error.

4.5.1 Application monitor resource

Module Type	Type	Return Value	Message	Description	Solution
appliw	Error	9	Process did not exist. (Stop code : %1)	Process did not exist. (The stop code is displayed only if it can be acquired.)	Process of the monitoring target application resource was cleared due to some error. Check it.
appliw	Error	11	Failed to log on as a user.	Failed to log on as a user.	Check if a domain, an account and a password of the logon user are set properly.
appliw	Warning	Others	Internal error occurred.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

4.5.2 DB2 monitor resource

Module Type	Type	Return Value	Message	Description	Solution
db2w	Warning	190	Initialization has failed[%1].	Initialization process has failed. It may be due to memory allocation failure. Information on the initialization may be displayed on %1.	OS itself may have errors. Restart the server or take other actions.
db2w	Warning	102	The configured value is not correct.	The configured value of the monitoring is not correct.	Check the configured value on the Cluster WebUI because they may not be correct.
db2w	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
db2w	Error	11	An error was detected in accessing the monitor target.	Accessing the database failed.	Check configured values on the Cluster WebUI (such as a database name). If there is no error, check the database has errors.

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Table 4.9 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
db2w	Warning	112	An error was detected in user authentication.	Accessing the database failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check the database has errors.
db2w	Warning	113	An application error was detected.	A database error was detected.	Refer to error messages for database described separately to fix errors.
db2w	Error	14	An error was detected in executing SQL statement [%1].	Executing SQL statement failed. The executed SQL statement is displayed on %1.	Refer to error messages for database described separately to fix errors.
db2w	Error	15	A data error was detected.	A value on the table of database has an error.	Database may be corrupt. Stop the database operation and investigate it. This error may occur when more than one monitoring is performed with the same monitor table name concurrently. Check if the values set in the multi-directional environment are appropriate.
db2w	Warning	140	No license is registered.	The license has not been registered.	Register the license.
db2w	Warning	160	Failed to obtain the configuration data.	The configured value could not be obtained.	OS may have errors. Restart the server or take other actions.
db2w	Warning	190	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

4.5.3 Disk RW monitor resource

Module Type	Type	Return Value	Message	Description	Solution
diskw	Error	5	Failed to open the file.	Failed to open the file.	Check if the disk driver of the monitoring target disk is loaded, the disk is connected properly, the disk is powered on, or no other errors are occurred on the disk. Memory or OS resources may not be sufficient. Check them.
diskw	Error	6	Failed to write in the file.	Failed to write in the file.	Check if the monitoring target disk is connected properly, the disk is powered on, or no other errors are occurred on the disk. Memory or OS resources may not be sufficient. Check them.
diskw	Error	7	Failed to synchronize the disk of the file.	Failed to synchronize the disk of the file.	Check if the monitoring target disk is connected properly, the disk is powered on, or no other errors are occurred on the disk. Memory or OS resources may not be sufficient. Check them.
diskw	Error	8	Failed to close the file.	Failed to close the file.	Check if the monitoring target disk is connected properly, the disk is powered on, or no other errors are occurred on the disk. Memory or OS resources may not be sufficient. Check them.
diskw	Error	71	Timeout has occurred when opening the file.	Timeout has occurred when opening the file.	Check if the monitoring target disk is connected properly, the disk is powered on, or no other errors are occurred on the disk. The system may be under high load, or memory or OS resources may not be sufficient. Check them.

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Table 4.10 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
diskw	Error	72	Timeout has occurred when writing in the file.	Timeout has occurred when writing in the file.	Check if the monitoring target disk is connected properly, the disk is powered on, or no other errors are occurred on the disk. The system may be under high load, or memory or OS resources may not be sufficient. Check them.
diskw	Error	73	Timeout has occurred when synchronizing the disk of the file.	Timeout has occurred when synchronizing the disk of the file.	Check if the monitoring target disk is connected properly, the disk is powered on, or no other errors are occurred on the disk. The system may be under high load, or memory or OS resources may not be sufficient. Check them.
diskw	Error	74	Timeout has occurred when closing the file.	Timeout has occurred when closing the file.	Check if the monitoring target disk is connected properly, the disk is powered on, or no other errors are occurred on the disk. The system may be under high load, or memory or OS resources may not be sufficient. Check them.
diskw	Warning	100	Failed to add keep alive drive when initializing keep alive driver.	Failed to add keep alive drive when initializing keep alive driver.	Memory or OS resources may not be sufficient. Check them.
diskw	Warning	101	There is not enough disk space.	There is not enough disk space.	Secure free space on the monitoring target disk.
diskw	Warning	102	Timeout has occurred when initializing internal resources.	Timeout has occurred when initializing internal resources.	Memory or OS resources may not be sufficient. Check them.
diskw	Warning	103	Timeout has occurred when other timing.	Timeout has occurred when other timing.	The system may be under high load, or memory or OS resources may not be sufficient. Check them.
diskw	Warning	104	Failed to allocate memory.	Failed to allocate memory.	Memory or OS resources may not be sufficient. Check them.
diskw	Warning	105	Internal error occurred.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

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Table 4.10 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
diskw	Warning	190	Initialization error has occurred in internal resource.	Initialization error has occurred in internal resource.	Memory or OS resources may not be sufficient. Check them.

4.5.4 FTP monitor resource

Module Type	Type	Return Value	Message	Description	Solution
ftpw	Error	11	An error was detected in accessing the monitor target.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as an IP address). If there is no error, check if the monitor application has errors.
ftpw	Error	12	An error was detected in user authentication.	The user authentication failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the monitor application has errors
ftpw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
ftpw	Warning	113	An application error was detected.	A monitor application error was detected.	Refer to error messages for monitor applications described separately to fix errors.
ftpw	Warning	115	A data error was detected.	A value of the response data has an error.	Refer to error messages for monitor applications described separately to fix errors.
ftpw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
ftpw	Warning	188	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.
ftpw	Warning	190	Initialization has failed[%1].	Initialization process has failed. It may be due to memory allocation failure or a failure in obtaining the configured value. Information on the initialization may be displayed on %1.	The configured value of the Cluster WebUI may be incorrect. Check the value. If there is no problem with the value, OS itself may have errors. Restart the server or take other actions

4.5.5 Custom monitor resource

Module Type	Type	Return Value	Message	Description	Solution
genw	Error	5	Failed to start script.	Failed to start script.	Check if the script can be executed.
genw	Error	6	Script did not exist.	The asynchronous type script terminated abnormally.	Check the cause of the termination of the script.
genw	Error	8	Returned exit code %1.	The synchronous type script returned abnormal error code.	Check the cause for the abnormal error code.
genw	Error	9	Failed to log on as a user.	Logon as a user failed	Check if the domain, account and password of the execution user are correctly set.
genw	Warning	100	Timeout occurred.	The synchronous type script did not terminate within the timeout period.	Check the cause of the delay of the script.
genw	Warning	100	Returned exit code %1.	The synchronous type script returned abnormal error code.	Check the cause for the abnormal error code.
genw	Warning	110	Returned warning value (%1).	The synchronous type script returned a warning value.	Check the cause of the warning value returned by the script.
genw	Warning	100 190	Script path is invalid.	The configured value of the script path is not correct.	Check the configured value on the Cluster WebUI.
genw	Warning	100 190	Internal error occurred.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.
genw	Warning	190	Parameter is invalid.	The configured value of the monitoring is not correct.	Check the configured value on the Cluster WebUI.
genw	Warning	190	Resource does not exist in cluster configuration data.	The cluster configuration data is not correct.	Check the cluster configuration data on the Cluster WebUI.
genw	Warning	190	Failed to get the value from cluster configuration data.	The cluster configuration data is not correct.	Check the cluster configuration data on the Cluster WebUI.
genw	Warning	190	Script did not exist.	The asynchronous type script terminated abnormally.	Check the cause of the termination of the script.
genw	Error	200	Failed to start script.	Failed to start script.	Check if the script can be executed.

4.5.6 HTTP monitor resource

Module Type	Type	Return Value	Message	Description	Solution
httpw	Error	11	An error was detected in accessing the monitor target.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as an IP address). If there is no error, check if the monitor application has errors.
httpw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
httpw	Warning	113	An application error was detected.	A monitor application error was detected.	Refer to error messages for monitor applications described separately to fix errors.
httpw	Warning	115	A data error was detected.	A value of the response data has an error.	Refer to error messages for monitor applications described separately to fix errors.
httpw	Warning	116	The algorithm is not supported. (%1)	The algorithm is not supported. %1 represents the algorithm.	-
httpw	Warning	117	Client authentication error.	Client authentication error.	Check if the client certificate subject name is correctly set.
httpw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
httpw	Warning	188	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.
httpw	Warning	190	Initialization has failed[%1].	Initialization process has failed. It may be due to memory allocation failure or a failure in obtaining the configured value. Information on the initialization may be displayed on %1.	The configured value of the Cluster WebUI may be incorrect. Check the value. If there is no problem with the value, OS itself may have errors. Restart the server or take other actions.

4.5.7 IMAP4 monitor resource

Module Type	Type	Return Value	Message	Description	Solution
imap4w	Error	11	An error was detected in accessing the monitor target.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as an IP address). If there is no error, check if the monitor application has errors.
imap4w	Error	12	An error was detected in user authentication.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the monitor application has errors.
imap4w	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
imap4w	Warning	113	An application error was detected.	A monitor application error was detected.	Refer to error messages for monitor applications described separately to fix errors.
imap4w	Warning	115	A data error was detected.	A value of the response data has an error.	Refer to error messages for monitor applications described separately to fix errors.
imap4w	Warning	140	No license is registered.	The license has not been registered.	Register the license.
imap4w	Warning	188	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.
imap4w	Warning	190	Initialization has failed[%1].	Initialization process has failed. It may be due to memory allocation failure or a failure in obtaining the configured value. Information on the initialization may be displayed on %1.	The configured value of the Cluster WebUI may be incorrect. Check the value. If there is no problem with the value, OS itself may have errors. Restart the server or take other actions

4.5.8 IP monitor resource

Module Type	Type	Return Value	Message	Description	Solution
ipw	Error	4	Ping could not reach.	Ping could not reach.	Check if the ping command to the corresponding IP address succeeds. When the command fails, check the status of the device that has the IP address and the network interface.
ipw	Warning	105	Timeout occurred.	Timeout occurred.	Memory or OS resources may not be sufficient. Check them.
ipw	Warning	189	Internal error occurred.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

4.5.9 NIC Link Up/Down monitor resource

Module Type	Type	Return Value	Message	Description	Solution
miiw	Error	4	IP address does not exist.	IP address does not exist.	NIC may have been disabled. Check if the IP address of the specified NIC exists by the ipconfig command.
miiw	Error	8	Detected NIC Link Down.	Detected NIC Link Down.	Check if the LAN cable is connected properly.
miiw	Warning	105	Failed to get the IP address list.	Failed to get the IP address list.	Memory or OS resources may not be sufficient. Check them.
miiw	Warning	106	Failed to get the NIC interface name.	Failed to get the NIC interface name.	Memory or OS resources may not be sufficient. Check them.
miiw	Warning	107	Failed to get the NIC status.	Failed to get the NIC status.	Check if the NIC device is supported by the device I/O controller.
miiw	Warning	189	An internal error has occurred.	An internal error has occurred.	Memory or OS resources may not be sufficient. Check them.

4.5.10 Multi target monitor resource

Module Type	Type	Return Value	Message	Description	Solution
mtw	Error	Other	Internal error occurred.(status:%1!d!)	Internal error occurred.(status:%1!d!)	Memory or OS resources may not be sufficient. Check them.
mtw	Error	5	Status of resources is abnormal.	Status of resources is abnormal.	Check the status of the monitor resources listed on the monitor resources list.
mtw	Error	1	This option is invalid.	This option is invalid.	Memory or OS resources may not be sufficient. Check them.

4.5.11 Process name monitor resource

Module Type	Type	Return Value	Message	Description	Solution
psw	Error	4	Process [%1, pid=%2] down.	Loss of the process to be monitored has been detected.	Check whether the process to be monitored is running properly.
psw	Error	5	The number of processes is less than the specified minimum process count. %1/%2 (%3)	The number of running processes to be monitored does not reach the specified lower limit.	Check whether the process to be monitored is running properly.
psw	Warning	100	Internal error occurred.	An internal error has occurred.	Check the following possible causes: memory shortage or OS resource insufficiency. Check it.
psw	Warning	190	Parameter is invalid.	The monitor setting value is incorrect.	The setting value for the Cluster WebUI may be incorrect. Check it.

4.5.12 ODBC monitor resource

Module Type	Type	Return Value	Message	Description	Solution
odbcw	Warning	190	Initialization has failed[%1].	Initialization process has failed. It may be due to memory allocation failure. Information on the initialization may be displayed on %1.	OS itself may have errors. Restart the server or take other actions.

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Table 4.19 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
odbcw	Warning	102	The configured value is not correct.	The configured value of the monitoring is not correct.	Check the configured value on the Cluster WebUI because it may not be correct.
odbcw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
odbcw	Error	11	An error was detected in accessing the monitor target.	The access to the database failed.	Check configured values on the Cluster WebUI (such as a database name). If there is no error, check the database has errors.
odbcw	Warning	112	An error was detected in user authentication.	The access to the database failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the database has errors.
odbcw	Warning	113	An application error was detected.	The database error was detected.	Refer to error messages for database described separately to fix errors.
odbcw	Error	14	An error was detected in executing SQL statement [%1].	Executing SQL statement failed. The executed SQL statement is displayed on %1.	Refer to error messages for database described separately to fix errors.
odbcw	Error	15	A data error was detected.	A value on the table of database has an error.	Database may be corrupt. Stop the database operation and investigate it. This error may occur when more than one monitoring is performed with the same monitor table name concurrently. Check if the values set in the multi-directional environment are appropriate.
odbcw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
odbcw	Warning	160	Failed to obtain the configuration data.	The configured value could not be obtained.	OS may have errors. Restart the server or take other actions

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Table 4.19 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
odbcw	Warning	190	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

4.5.13 Oracle monitor resource

Module Type	Type	Return Value	Message	Description	Solution
oraclew	Warning	190	Initialization has failed[%1].	Initialization process has failed. It may be due to memory allocation failure. Information on the initialization may be displayed on %1.	OS itself may have errors. Restart the server or take other actions
oraclew	Warning	102	The configured value is not correct.	The configured value of the monitoring is not correct.	Check the configured value on the Cluster WebUI because it may not be correct.
oraclew	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
oraclew	Error	11	An error was detected in accessing the monitor target.	The access to the database failed.	Check configured values on the Cluster WebUI (such as a database name). If there is no error, check the database has errors.
oraclew	Warning	112	An error was detected in user authentication.	The access to the database failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the database has errors.
oraclew	Warning	113	An application error was detected.	The database error was detected.	Refer to error messages for database described separately to fix errors.
oraclew	Error	14	An error was detected in executing SQL statement [%1].	Executing SQL statement failed. The executed SQL statement is displayed on %1.	Refer to error messages for database described separately to fix errors.

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Table 4.20 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
oraclew	Error	15	A data error was detected.	A value on the table of database has an error.	Database may be corrupt. Stop the database operation and investigate it. This error may occur when more than one monitoring is performed with the same monitor table name concurrently. Check if the values set in the multi-directional environment are appropriate.
oraclew	Warning	140	No license is registered.	The license has not been registered.	Register the license.
oraclew	Warning	160	Failed to obtain the configuration data.	The configured value could not be obtained.	OS may have errors. Restart the server or take other actions.
oraclew	Warning	190	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

4.5.14 POP3 monitor resource

Module Type	Type	Return Value	Message	Description	Solution
pop3w	Error	11	An error was detected in accessing the monitor target.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as an IP address). If there is no error, check if the monitor application has errors.
pop3w	Error	12	An error was detected in user authentication.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the monitor application has errors.
pop3w	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
pop3w	Warning	113	An application error was detected.	The monitor application error was detected.	Refer to error messages for monitor applications described separately to fix errors.

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Table 4.21 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
pop3w	Warning	115	A data error was detected.	A value of the response data has an error.	Refer to error messages for monitor applications described separately to fix errors.
pop3w	Warning	140	No license is registered.	The license has not been registered.	Register the license.
pop3w	Warning	188	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.
pop3w	Warning	190	Initialization has failed[%1].	Initialization process has failed. It may be due to memory allocation failure or a failure in obtaining the configured value. Information on the initialization may be displayed on %1.	The configured value of the Cluster WebUI may be incorrect. Check the value. If there is no problem with the value, OS itself may have errors. Restart the server or take other actions.

4.5.15 PostgreSQL monitor resource

Module Type	Type	Return Value	Message	Description	Solution
psqlw	Warning	190	Initialization has failed[%1].	Initialization process has failed. It may be due to memory allocation failure. Information on the initialization may be displayed on %1.	OS itself may have errors. Restart the server or take other actions.
psqlw	Warning	102	The configured value is not correct.	The configured value of the monitoring is not correct.	Check the configured value on the Cluster WebUI because it may not be correct.
psqlw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.

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Table 4.22 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
psqlw	Error	11	An error was detected in accessing the monitor target.	The access to the database failed.	Check configured values on the Cluster WebUI (such as a database name). If there is no error, check the database has errors.
psqlw	Warning	112	An error was detected in user authentication.	The access to the database failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the database has errors.
psqlw	Warning	113	An application error was detected.	The database error was detected.	Refer to error messages for database described separately to fix errors.
psqlw	Error	14	An error was detected in executing SQL statement [%1].	Executing SQL statement failed. The executed SQL statement is displayed on %1.	Refer to error messages for database described separately to fix errors.
psqlw	Error	15	A data error was detected.	A value on the table of database has an error.	Database may be corrupt. Stop the database operation and investigate it. This error may occur when more than one monitoring is performed with the same monitor table name concurrently. Check if the values set in the multi-directional environment are appropriate.
psqlw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
psqlw	Warning	160	Failed to obtain the configuration data.	The configured value could not be obtained.	OS may have errors. Restart the server or take other actions.
psqlw	Warning	190	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

4.5.16 Service monitor resource

Module Type	Type	Return Value	Message	Description	Solution
servicew	Error	9	Service has been stopped.	Service has been stopped.	Check the status of the service.
servicew	Warning	100	Failed to obtain the service control right.	Failed to obtain the service control right.	Check if the service name is correct.
servicew	Warning	Others	An internal error has occurred.	An internal error has occurred.	Memory or OS resources may not be sufficient. Check them.

4.5.17 SMTP monitor resource

Module Type	Type	Return Value	Message	Description	Solution
smtpw	Error	11	An error was detected in accessing the monitor target.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as an IP address). If there is no error, check if the monitor application has errors.
smtpw	Error	12	An error was detected in user authentication.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the monitor application has errors.
smtpw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
smtpw	Warning	113	An application error was detected.	The monitor application error was detected.	Refer to error messages for monitor applications described separately to fix errors.
smtpw	Warning	115	A data error was detected.	A value of the response data has an error.	Refer to error messages for monitor applications described separately to fix errors.
smtpw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
smtpw	Warning	188	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

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Table 4.24 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
smtpw	Warning	190	Initialization has failed[%1].	<p>Initialization process has failed. It may be due to memory allocation failure or a failure in obtaining the configured value.</p> <p>Information on the initialization may be displayed on %1.</p>	The configured value of the Cluster WebUI may be incorrect. Check the value. If there is no problem with the value, OS itself may have errors. Restart the server or take other actions.

4.5.18 SQL Server monitor resource

Module Type	Type	Return Value	Message	Description	Solution
sqlserverw	Warning	190	Initialization has failed[%1].	<p>Initialization process has failed. It may be due to memory allocation failure.</p> <p>Information on the initialization may be displayed on %1.</p>	OS itself may have errors. Restart the server or take other actions.
sqlserverw	Warning	102	The configured value is not correct.	The configured value of the monitoring is not correct.	Check the configured value on the Cluster WebUI because it may not be correct.
sqlserverw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
sqlserverw	Error	11	An error was detected in accessing the monitor target.	The access to the database failed.	Check configured values on the Cluster WebUI (such as a database name). If there is no error, check the database has errors.
sqlserverw	Warning	112	An error was detected in user authentication.	The access to the database failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the database has errors.
sqlserverw	Warning	113	An application error was detected.	The database error was detected.	Refer to error messages for database described separately to fix errors.

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Table 4.25 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
sqlserverw	Error	14	An error was detected in executing SQL statement [%1].	Executing SQL statement failed. The executed SQL statement is displayed on %1.	Refer to error messages for database described separately to fix errors.
sqlserverw	Error	15	A data error was detected.	A value on the table of database has an error.	Database may be corrupt. Stop the database operation and investigate it. This error may occur when more than one monitoring is performed with the same monitor table name concurrently. Check if the values set in the multi-directional environment are appropriate.
sqlserverw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
sqlserverw	Warning	160	Failed to obtain the configuration data.	The configured value could not be obtained.	OS may have errors. Restart the server or take other actions.
sqlserverw	Warning	190	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

4.5.19 Tuxedo monitor resource

Module Type	Type	Return Value	Message	Description	Solution
tuxw	Error	11	An error was detected in accessing the monitor target.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as an application config file). If there is no error, check if the monitor application has errors.
tuxw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
tuxw	Warning	113	An application error was detected.	The monitor application error was detected.	Refer to error messages for monitor applications described separately to fix errors.

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Table 4.26 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
tuxw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
tuxw	Warning	188	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.
tuxw	Warning	190	Initialization has failed[%1].	Initialization process has failed. It may be due to memory allocation failure or a failure in obtaining the configured value. Information on the initialization may be displayed on %1.	The configured value of the Cluster WebUI may be incorrect. Check the value. If there is no problem with the value, OS itself may have errors. Restart the server or take other actions.

4.5.20 WebSphere monitor resource

Module Type	Type	Return Value	Message	Description	Solution
wasw	Error	12	An error was detected in user authentication.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the monitor application has errors.
wasw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
wasw	Warning	113	An application error was detected.	The monitor application error was detected.	Refer to error messages for monitor applications described separately to fix errors.
wasw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
wasw	Warning	188	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

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Table 4.27 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
wasw	Warning	190	Initialization has failed[%1].	Initialization process has failed. It may be due to memory allocation failure or a failure in obtaining the configured value. Information on the initialization may be displayed on %1.	The configured value of the Cluster WebUI may be incorrect. Check the value. If there is no problem with the value, OS itself may have errors. Restart the server or take other actions.

4.5.21 WebLogic monitor resource

Module Type	Type	Return Value	Message	Description	Solution
wlsw	Error	11	An error was detected in accessing the monitor target.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as an IP address). If there is no error, check if the monitor application has errors.
wlsw	Error	12	An error was detected in user authentication.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the monitor application has errors.
wlsw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
wlsw	Warning	113	An application error was detected.	The monitor application error was detected.	Refer to error messages for monitor applications described separately to fix errors.
wlsw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
wlsw	Warning	188	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

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Table 4.28 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
wlsw	Warning	190	Initialization has failed[%1].	<p>Initialization process has failed. It may be due to memory allocation failure or a failure in obtaining the configured value.</p> <p>Information on the initialization may be displayed on %1.</p>	The configured value of the Cluster WebUI may be incorrect. Check the value. If there is no problem with the value, OS itself may have errors. Restart the server or take other actions.

4.5.22 WebOTX monitor resource

Module Type	Type	Return Value	Message	Description	Solution
otxw	Error	11	An error was detected in accessing the monitor target.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as an IP address or an application server name). If there is no error, check if the monitor application has errors.
otxw	Error	12	An error was detected in user authentication.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the monitor application has errors.
otxw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
otxw	Warning	113	An application error was detected.	The monitor application error was detected.	Refer to error messages for monitor applications described separately to fix errors.
otxw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
otxw	Warning	188	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

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Table 4.29 – continued from previous page

Module Type	Type	Return Value	Message	Description	Solution
otxw	Warning	190	Initialization has failed[%1].	<p>Initialization process has failed. It may be due to memory allocation failure or a failure in obtaining the configured value.</p> <p>Information on the initialization may be displayed on %1.</p>	The configured value of the Cluster WebUI may be incorrect. Check the value. If there is no problem with the value, OS itself may have errors. Restart the server or take other actions.

4.5.23 JVM monitor resource

Module Type	Type	Return Value	Message	Description	Solution
jraw	Error	11	An error was detected in accessing the monitor target.	Connection to the target to be monitored has failed.	Check that the Java VM to be monitored is running.
jraw	Error	12	%1 to be monitored has become abnormal. %1:Error generation cause	An error in the target to be monitored has been detected.	Based on the message, check the Java application that is running on Java VM to be monitored.
jraw	Warning	192	Internal error occurred.	An internal error has occurred.	Execute cluster suspend and cluster resume.

4.5.24 System monitor resource

Module Type	Type	Return Value	Message	Description	Solution
sraw	Error	11	Monitor sraw has detected an error. (11: Detected an error in monitoring system resource.)	An error was detected when monitoring system resources.	There may be an error with the resources.

4.5.25 Process resource monitor resource

Module Type	Type	Return Value	Message	Description	Solution
psrw	Error	11	Monitor psrw has detected an error. (11: Detected an error in monitoring process resource.)	An error was detected when monitoring process resources.	There may be an error with the resources. Check them.

4.5.26 User mode monitoring resource

Module Type	Type	Return Value	Message	Description	Solution
userw	Error	71	Timeout has occurred when creating dummy thread.	Timeout has occurred when creating dummy thread.	The system may be under high load, or memory or OS resources may not be sufficient. Check them.
userw	Warning	100	A timeout occurred when initializing internal resources.	A timeout occurred when initializing internal resources.	Memory or OS resources may not be sufficient. Check them.
userw	Warning	101	Timeout has occurred when closing dummy thread handle.	Timeout has occurred when closing dummy thread handle.	The system may be under high load, or memory or OS resources may not be sufficient. Check them.
userw	Warning	102	Timeout has occurred when other timing.	Timeout has occurred when other timing.	The system may be under high load, or memory or OS resources may not be sufficient. Check them.
userw	Warning	190	An initialization error has occurred in an internal resource.	An initialization error has occurred in an internal resource.	Memory or OS resources may not be sufficient. Check them.

4.6 STOP codes list of disk RW monitor resources

The following information is the STOP codes list which are generated when selecting **Generating of intentional Stop Error** on **Action when stalling is detected** of disk RW monitor resource.

STOP code	Description
0xE0000000	The STOP error which was generated as the Final action at detection of an error of the monitor resource at activation or deactivation failure of the group resource.
0xE000FF**	The STOP error which was generated by keep alive timeout (the timeout of disk RW monitor). The lower 8 bits (the part of "**") shows the following checkpoint (The chances are high that it was being executed during timeout).
0xE000FF00	The internal processing of EXPRESSCLUSTER
0xE000FF01	free(), SetWaitableTimer(), GetTickCount(), WaitForMultipleObjects()
0xE000FF02	CreateFile(), _beginthreadex()
0xE000FF03	malloc(), WriteFile()
0xE000FF04	FlushFileBuffers()
0xE000FF05	CloseHandle()
0xE000FF06	The internal processing of EXPRESSCLUSTER

4.7 JVM monitor resource log output messages

The following messages belong to the JVM operation log files that are specific to the JVM monitor resources.

The file is created in the following location:

JVM operation log: <EXPRESSCLUSTER_install_path>\log\ha\jra\jrgent*.log (* indicates a number starting at 0.)

4.7.1 JVM operation log

Message	Cause of generation	Action
Failed to write the %1.stat.	Writing to the JVM statistics log has failed. %1 .stat: JVM statistics log file name	Check whether there is sufficient free disk space.
%1: analyze finish[%4]. state = %2, cause = %3	(When the status of the Java VM to be monitored is abnormal) the resource use amount has exceeded the threshold in the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: Status of Java VM to be monitored (1=normal, 0=abnormal) %3: Error generation location at abnormality occurrence %4: Measurement thread name	Review the Java application that runs on the Java VM to be monitored.
thread stopped by UncaughtException.	The thread of the JVM monitor resource has stopped.	Execute cluster suspend/cluster resume and then restart the JVM monitor resource.
thread wait stopped by Exception.	The thread of the JVM monitor resource has stopped.	Execute cluster suspend/cluster resume and then restart the JVM monitor resource.
%1: monitor thread can't connect to JVM.	The Java VM to be monitored could not be connected. %1: Name of the Java VM to be monitored	Check that the Java VM to be monitored is running.

Continued on next page

Table 4.35 – continued from previous page

Message	Cause of generation	Action
%1: monitor thread can't get the JVM state.	The resource use amount could not be acquired from Java VM to be monitored. %1: Name of the Java VM to be monitored	Check that the Java VM to be monitored is running.
%1: JVM state is changed [abnormal -> normal].	The status of the Java VM to be monitored has changed from abnormal to normal. %1: Name of the Java VM to be monitored	-
%1: JVM state is changed [normal -> abnormal].	The status of the Java VM to be monitored has changed from normal to abnormal. %1: Name of the Java VM to be monitored	Review the Java application that runs on the Java VM to be monitored.
%1: Failed to connect to JVM. retry = %2 / %3.	The Java VM to be monitored could not be connected. %1: Name of the Java VM to be monitored %2: Number of times the connection consecutively failed %3: Error Threshold * retry = %2s / %3s is not shown after the former value exceeds the latter.	Check that the Java VM to be monitored is running.
Failed to write exit code.	The JVM monitor resource failed to write data to the file for recording the exit code.	Check whether there is sufficient free disk space.
Failed to be started JVM Monitor.	Starting of the JVM monitor resource has failed.	Check the JVM operation log, remove the cause preventing the start, execute cluster suspend/cluster resume, and then restart the JVM monitor resource.
JVM Monitor already started.	The JVM monitor resource has already been started.	Execute cluster suspend/cluster resume and then restart the JVM monitor resource.

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Table 4.35 – continued from previous page

Message	Cause of generation	Action
%1: GARBAGE_COLLECTOR_MXBEAN_DOMAIN_TYPE is invalid.	GC information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1: GarbageCollectorMXBean is invalid.	GC information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1: Failed to measure the GC stat.	GC information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1: GC stat is invalid. last.getCount = %2, last.getTime = %3, now.getCount = %4, now.getTime = %5.	The GC generation count and GC execution time could not be measured for the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: GC generation count at last measurement %3: Total GC execution time at last measurement %4: GC generation count at this measurement %5: Total GC execution time at this measurement	Check whether the operating environment of the Java VM to be monitored is correct.

Continued on next page

Table 4.35 – continued from previous page

Message	Cause of generation	Action
<p>%1: GC average time is too long. av = %6, last.getCount = %2, last.getTime = %3, now.getCount = %4, now.getTime = %5, error_count = %7 / %8.</p>	<p>The average GC execution time has exceeded the threshold in the Java VM to be monitored.</p> <p>%1: Name of the Java VM to be monitored</p> <p>%2: GC generation count at last measurement</p> <p>%3: Total GC execution time at last measurement</p> <p>%4: GC generation count at this measurement</p> <p>%5: Total GC execution time at this measurement</p> <p>%6: Average of the GC execution time used from the last measurement to this measurement</p> <p>%7: Number of times the threshold was consecutively exceeded</p> <p>%8: Error Threshold</p> <p>* error_count = %7\$s / %8\$s is not shown after the former value exceeds the latter.</p>	<p>Review the Java application that runs on the Java VM to be monitored.</p>
<p>%1: GC count is too frequently. count = %4 last.getCount = %2, now.getCount = %3, error_count = %5 / %6.</p>	<p>The GC generation count has exceeded the threshold in the Java VM to be monitored.</p> <p>%1: Name of the Java VM to be monitored</p> <p>%2: GC generation count at last measurement</p> <p>%3: GC generation count at this measurement</p> <p>%4: GC generation count from the last measurement to this measurement</p> <p>%5: Number of times the threshold was consecutively exceeded</p> <p>%6: Error Threshold</p> <p>* error_count = %5\$s / %6\$s is not shown after the former value exceeds the latter.</p>	<p>Review the Java application that runs on the Java VM to be monitored.</p>

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Table 4.35 – continued from previous page

Message	Cause of generation	Action
%1: RuntimeMXBean is invalid.	Information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1: Failed to measure the runtime stat.	Information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct. Check whether the processing load is high in the Java VM to be monitored.
%1: MEMORY_MXBEAN_NAME is invalid. %2, %3.	Memory information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: Memory pool name %3: Memory name	Check whether the operating environment of the Java VM to be monitored is correct.
%1: MemoryMXBean is invalid.	Memory information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1: Failed to measure the memory stat.	Memory information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct. Check whether the processing load is high in the Java VM to be monitored.
%1: MemoryPool name is undefined. memory_name = %2.	Memory information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: Name of the Java memory pool to be measured	Check whether the operating environment of the Java VM to be monitored is correct.

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Table 4.35 – continued from previous page

Message	Cause of generation	Action
%1: MemoryPool capacity is too little. memory_name = %2, used = %3, max = %4, ratio = %5, error_count = %6 / %7.	The Java memory pool free space has fallen below the threshold in the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: Name of the Java memory pool to be measured %3: Use amount of the Java memory pool %4: Maximum usable amount of the Java memory pool %5: Use rate of the Java memory pool %6: Number of times the threshold was consecutively exceeded %7: Error Threshold * error_count = %6\$\$ / %7\$\$ is not shown after the former value exceeds the latter.	Review the Java application that runs on the Java VM to be monitored.
%1: THREAD_MXBEAN_NAME is invalid.	Thread information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1: ThreadMXBean is invalid.	Thread information could not be acquired from the Java VM to be monitored.	Check whether the operating environment of the Java VM to be monitored is correct. %1: Name of the Java VM to be monitored
%1: Failed to measure the thread stat.	Thread information could not be acquired from Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1: Detect Deadlock. threads = %2.	Thread deadlock has occurred in the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: ID of the deadlock thread	Review the Java application that runs on the Java VM to be monitored.

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Table 4.35 – continued from previous page

Message	Cause of generation	Action
%1: Thread count is too much(%2). error_count = %3 / %4.	The number of activated threads has exceeded the threshold in the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: Number of activated threads at measurement %3: Number of times the threshold was consecutively exceeded %4: Error Threshold * error_count = %3\$s / %4\$s is not shown after the former value exceeds the latter.	Review the Java application that runs on the Java VM to be monitored.
%1: ThreadInfo is null.Thread count = %2.	Thread information could not be acquired in the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: Number of activated threads at measurement	Check whether the operating environment of the version of the Java VM to be monitored is correct.
%1: Failed to disconnect.	Disconnection from the Java VM to be monitored has failed. %1: Name of the Java VM to be monitored	-
%1: Failed to connect to WebLogic-Server.	WebLogic Server to be monitored could not be connected. %1: Name of the Java VM to be monitored	Review the Java application that runs on the WebLogic Server to be monitored.
%1: Failed to connect to Sun JVM.	Java VM and WebOTX to be monitored could not be connected. %1: Name of the Java VM to be monitored	Review the Java application that runs on the Java VM and WebOTX to be monitored.
Failed to open the %1.	The JVM statistics log could not be output. %1: Name of the HA/JVMSaverJVM statistics log file	Check whether the disk has sufficient free space or whether the number of open files has exceeded the upper limit.

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Table 4.35 – continued from previous page

Message	Cause of generation	Action
%1: Can't find monitor file.	No monitoring %1: Name of the Java VM to be monitored	-
%1: Can't find monitor file, monitor stopped[thread:%2].	Monitoring stops. %1: Name of the Java VM to be monitored %2: Type of the measurement thread	-
%1: Failed to create monitor status file.	An internal file could not be created. %1: Name of the Java VM to be monitored	Check whether the disk free space and the maximum number of volume files are sufficient.
%1: Failed to delete monitor status file.	An internal file could not be deleted.	Check whether there is a problem with the hard disk.
%1: com.bea:Type=ServerRuntime is invalid.	Information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1: WorkManagerRuntimeMBean or ThreadPoolRuntimeMBean is invalid.	Information could not be acquired from the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the WebLogic Server to be monitored is correct.
%1: Failed to measure the Work-Manager or ThreadPool stat.	Information could not be acquired from the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the WebLogic Server to be monitored is correct.

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Table 4.35 – continued from previous page

Message	Cause of generation	Action
%1: ThreadPool stat is invalid. last.pending = %2, now.pending = %3.	The number of waiting requests could not be measured in the thread pool of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Number of waiting requests at last measurement %3: Number of waiting requests at this measurement	Check whether the operating environment of the version of the WebLogic Server to be monitored is correct.
%1: WorkManager stat is invalid. last.pending = %2, now.pending = %3.	The number of waiting requests could not be measured in the work manager of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Number of waiting requests at last measurement %3: Number of waiting requests at this measurement	Check whether the operating environment of the version of the WebLogic Server to be monitored is correct.
%1: PendingRequest count is too much. count = %2, error_count = %3 / %4.	The number of waiting requests has exceeded the threshold in the thread pool of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Number of waiting requests at this measurement %3: Number of times the threshold was consecutively exceeded %4: Error Threshold * error_count = %3\$s / %4\$s is not shown after the former value exceeds the latter.	Review the Java application that runs on the WebLogic Server to be monitored.

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Table 4.35 – continued from previous page

Message	Cause of generation	Action
<p>%1: PendingRequest increment is too much. increment = %4, last.pending = %2, now.pending = %3, error_count = %5 / %6.</p>	<p>The increment of the number of waiting requests has exceeded the threshold in the thread pool of the WebLogic Server to be monitored.</p> <p>%1: Name of the Java VM to be monitored</p> <p>%2: Number of waiting requests at last measurement</p> <p>%3: Number of waiting requests at this measurement</p> <p>%4: Increment of the number of waiting requests from the last measurement to this measurement</p> <p>%5: Number of times the threshold was consecutively exceeded</p> <p>%6: Error Threshold</p> <p>* error_count = %5\$s / %6\$s is not shown after the former value exceeds the latter.</p>	<p>Review the Java application that runs on the WebLogic Server to be monitored.</p>
<p>%1: Throughput count is too much. count = %2, error_count = %3 / %4.</p>	<p>The number of requests executed per unit time has exceeded the threshold in the thread pool of the WebLogic Server to be monitored.</p> <p>%1: Name of the Java VM to be monitored</p> <p>%2: Number of requests executed per unit time at this measurement</p> <p>%3: Number of times the threshold was consecutively exceeded</p> <p>%4: Error Threshold</p> <p>* error_count = %3\$s / %4\$s is not shown after the former value exceeds the latter.</p>	<p>Review the Java application that runs on the WebLogic Server to be monitored.</p>

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Table 4.35 – continued from previous page

Message	Cause of generation	Action
<p>%1: Throughput increment is too much. increment = %4, last.throughput = %2, now.throughput = %3, error_count = %5 / %6.</p>	<p>The increment of the number of requests executed per unit time has exceeded the threshold in the thread pool of the WebLogic Server to be monitored.</p> <p>%1: Name of the Java VM to be monitored</p> <p>%2: Number of requests executed per unit time at last measurement</p> <p>%3: Number of requests executed per unit time at this measurement</p> <p>%4: Increment of the number of requests executed per unit time from the last measurement to this measurement</p> <p>%5: Number of times the threshold was consecutively exceeded</p> <p>%6: Error Threshold</p> <p>* error_count = %5\$s / %6\$s is not shown after the former value exceeds the latter.</p>	<p>Review the Java application that runs on the WebLogic Server to be monitored.</p>
<p>%1: PendingRequest count is too much. appName = %2, name = %3, count = %4, error_count = %5 / %6.</p>	<p>The number of waiting requests has exceeded the threshold in the work manager of the WebLogic Server to be monitored.</p> <p>%1: Name of the Java VM to be monitored</p> <p>%2: Application name</p> <p>%3: Work manager name</p> <p>%4: Number of waiting requests</p> <p>%5: Number of times the threshold was consecutively exceeded</p> <p>%6: Error Threshold</p> <p>* error_count = %5\$s / %6\$s is not shown after the former value exceeds the latter.</p>	<p>Review the Java application that runs on the WebLogic Server to be monitored.</p>

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Table 4.35 – continued from previous page

Message	Cause of generation	Action
%1: PendingRequest increment is too much. appName = %2, name = %3, increment = %6, last.pending = %4, now.pending = %5, error_count = %7 / %8.	<p>The increment of the number of waiting requests has exceeded the threshold in the work manager of the WebLogic Server to be monitored.</p> <p>%1: Name of the Java VM to be monitored</p> <p>%2: Application name</p> <p>%3: Work manager name</p> <p>%4: Number of waiting requests at last measurement</p> <p>%5: Number of waiting requests at this measurement</p> <p>%6: Increment of the number of waiting requests from the last measurement to this measurement</p> <p>%7: Number of times the threshold was consecutively exceeded</p> <p>%8: Error Threshold</p> <p>* error_count = %7\$s / %8\$s is not shown after the former value exceeds the latter.</p>	Review the Java application that runs on the WebLogic Server to be monitored.
%1: Can't find WorkManager. app-Name = %2, name = %3.	<p>The work manager which was set could not be acquired from the WebLogic Server.</p> <p>%1: Name of the Java VM to be monitored</p> <p>%2: Application name</p> <p>%3: Work manager name</p>	Review the setting of Target WebLogic Work Managers.
%1: analyze of average start[%2].	<p>Analyzing of the average value has started.</p> <p>%1: Name of the Java VM to be monitored</p> <p>%2: Thread name</p>	-

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Table 4.35 – continued from previous page

Message	Cause of generation	Action
%1: analyze of average finish[%2].state = %3.	Analyzing of the average value has been completed. %1: Name of the Java VM to be monitored %2: Thread name %3: Status of the target to be monitored	-
%1: Average of PendingRequest count is too much. count = %2.	The average of the number of waiting requests has exceeded the threshold in the thread pool of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Number of waiting requests at this measurement	Review the Java application that runs on the WebLogic Server to be monitored.
%1: Average of Throughput count is too high. count = %2.	The average of the number of requests executed per unit time has exceeded the threshold in the thread pool of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Number of requests executed per unit time at this measurement	Review the Java application that runs on the WebLogic Server to be monitored.
%1: Average of PendingRequest count is too high. AppName = %2, Name = %3, count = %4.	The average of the number of waiting requests has exceeded the threshold in the work manager of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Application name %3: Work manager name %4: Number of waiting requests at this measurement	Review the Java application that runs on the WebLogic Server to be monitored.
Error: Failed to operate cljra_bigip.[%1]	%1: Error code	Review the setting.

4.8 STOP codes list of user mode monitor resources

The following information is a list of the STOP codes which are generated upon the selection of **Generate an intentional stop error** for **Action When Timeout Occurs** of the user mode monitor resource.

STOP code	Description
0xE0000000	The STOP error which was generated as the final action upon the detection of an error of the monitor resource
0xE000FF**	The STOP error which was generated by keep alive timeout (the timeout of user mode monitor) The lower 8 bits (the part of "**") shows the following checkpoint (The chances are high that it was being executed during timeout).
0xE000FF00	The internal processing of EXPRESSCLUSTER
0xE000FF01	SetWaitableTimer(), GetTickCount(), WaitForMultipleObjects()
0xE000FF02	_beginthreadex(), WaitForMultipleObjects()
0xE000FF05	CloseHandle()
0xE000FF06	The internal processing of EXPRESSCLUSTER

4.9 Details on checking cluster configuration data

4.9.1 Cluster Properties

Check item	ID	Message	Action
Port No. tab : port number check	1011	Failed.	Check if the netsh command is available.
	1012	The port number %1 is within the range of automatically assigned port numbers.	Specify a port number which is not automatically assigned.

4.9.2 Unrecommended settings check

Check item	ID	Message	Action
Recovery action check for deactivation failure(%1)	6001	"No operation" is set for Recovery Operation at Deactivation Failure Detection. It is recommended to select any other value.	It is recommended to select a value other than "No operation" for the final action on deactivation failure detection.

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