

EXPRESSCLUSTER X SingleServerSafe 4.2 for Linux Operation Guide

Release 2

NEC Corporation

TABLE OF CONTENTS:

1	Prefa	ice 1
	1.1	Who Should Use This Guide
	1.2	How This Guide Is Organized
	1.3	Terms Used in This Guide
	1.4	EXPRESSCLUSTER X SingleServerSafe Documentation Set
	1.5	Conventions
	1.6	Contacting NEC
2	EXP	RESSCLUSTER X SingleServerSafe command reference 5
	2.1	Operating the cluster from the command line
	2.2	EXPRESSCLUSTER commands
	2.3	Displaying the status (clpstat command)
	2.4	Operating the EXPRESSCLUSTER daemon (clpcl 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 (clplcnsc command)
	2.12	Outputting messages (clplogcmd command)
	2.13	Controlling monitor resources (clpmonctrl command)
	2.14	Controlling group resources (clprsc command)
	2.15	Controlling CPU frequency (clpcpufreq command)
	2.16	Processing inter-cluster linkage (clptrnreq command)
	2.17	Requesting processing to cluster servers (clprexec command) 61
	2.18	Changing BMC information (clpbmccnf command)
	2.19	Controlling reboot count (clpregctrl command)
	2.20	Estimating the amount of resource usage (clpprer command)
	2.21	Checking the process health (clphealthchk command)
	2.22	Displaying the cluster statistics information (clpperfc command)
	2.23	Checking the cluster configuration information (clpcfchk command)
3	Notes	s and restrictions 79
	3.1	After starting operating EXPRESSCLUSTER X SingleServerSafe
4	Erro	r messages 85
	4.1	Messages reported by syslog, alert, mail, and SNMP trap
	4.2	Driver syslog messages
	4.3	Detailed information on activating and deactivating group resources

6	Revis	sion History	209
	5.1	Disclaimer	
		Details about monitor resource errors	

CHAPTER

ONE

PREFACE

1.1 Who Should Use This Guide

The EXPRESSCLUSTER® X SingleServerSafe Operation Guide is intended for system administrators who will operate and maintain an introduced system.

1.2 How This Guide Is Organized

- 2. EXPRESSCLUSTER X SingleServerSafe command reference: Provides information on commands available
 to use in EXPRESSCLUSTER.
- 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 documentation consists of the four 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.

EXPRESSCLUSTER X SingleServerSafe Legacy Feature Guide

This guide is intended for system engineers who want to introduce systems using EXPRESSCLUSTER X SingleServerSafe and describes EXPRESSCLUSTER X SingleServerSafe 4.0 WebManager and Builder.

1.5 Conventions

In this guide, **Note**, **Important**, and **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	Indicates that the value specified inside of the an-	clpstat -s [-h
the command line	gled bracket can be omitted.	host_name]
#	Prompt to indicate that a Linux user has logged	# clpcl -s -a
	in as root user.	

Continued on next page

2 Chapter 1. Preface

Table 1.1 – continued from previous page

Convention	Usage	Example
Monospace (courier)	Indicates path names, commands, system out-	/Linux/4.2/en/server/
	put (message, prompt, etc), directory, file names, functions and parameters.	
Monospace bold (courier)	Indicates the value that a user actually enters from a command line.	Enter the following: clpcl -s -a
Monospace italic (courier)	Indicates that users should replace italicized part with values that they are actually working with.	rpm -i expressclssss- { < version_number > }- { < release_number > }.x86_64.rpm

1.6 Contacting NEC

For the latest product information, visit our website below:

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

4 Chapter 1. Preface

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 EXPRESS-CLUSTER 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 EXPRESSCLUSTER daemon (clpcl 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 (clplcnsc command)
- 2.12. *Outputting messages (clplogemd command)*
- 2.13. Controlling monitor resources (clpmonctrl command)
- 2.14. Controlling group resources (clprsc command)
- 2.15. Controlling CPU frequency (clpcpufreq command)
- 2.16. Processing inter-cluster linkage (clptrnreq command)
- 2.17. Requesting processing to cluster servers (clprexec command)
- 2.18. Changing BMC information (clpbmccnf command)
- 2.19. Controlling reboot count (clpregctrl command)
- 2.20. Estimating the amount of resource usage (clpprer command)
- 2.21. Checking the process health (clphealthchk command)
- 2.22. Displaying the cluster statistics information (clpperfc command)
- 2.23. Checking the cluster configuration information (clpcfchk 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.

Important: The installation directory contains executable-format files and script files that are not listed in this guide. Do not execute these files by programs or applications other than EXPRESSCLUSTER. Any problems caused by not using EXPRESSCLUSTER will not be supported.

2.2 EXPRESSCLUSTER commands

• Commands for construction

command	Explanation	Refer to
clpcfctrl	Delivers the configuration data created by the Cluster WebUI to servers. Backs up the configuration data to be used by the Cluster WebUI.	2.8. Applying and backing up configuration data (clpcfctrl command)
clplcnsc	Manages the product or trial version license of this product.	2.11. Managing licenses (clplcnsc command)
clpcfchk	Checks cluster configuration data.	2.23. Checking the cluster configuration information (clpcfchk command)

· Commands for showing status

command	Explanation	Refer to	
clpstat	Displays the status and configuration data of EX-	2.3. Displaying the status (clpstat	
	PRESSCLUSTER X SingleServerSafe.	command)	
clphealthchk	Check the process health.	2.21. Checking the process health	
		(clphealthchk command)	

• Commands for operation

command	Explanation	Refer to
clpcl	Starts, stops, suspends, or resumes the daemon.	2.4. Operating the EXPRESS-
		CLUSTER daemon (clpcl com-
		mand)
clpstdn	Stops and shuts down the EXPRESSCLUSTER dae-	2.5. Shutting down the server (clp-
	mon.	stdn command)
clpgrp	Starts and stops groups.	2.6. Operating groups (clpgrp
		command)
clptoratio	Extends or displays thetimeout values.	2.9. Adjusting time-out temporar-
		ily (clptoratio command)
clpmonctrl	Suspends and/or resumes monitor resources on a	2.13. Controlling monitor re-
	server.	sources (clpmonctrl command)
clpregctrl	Displays and/or initializes reboot count on a single	2.19. Controlling reboot count (cl-
	server.	pregctrl command)
clprsc	Suspends or resumes group resources.	2.14. Controlling group resources
		(clprsc command)
clpcpufreq	Controls CPU frequency.	2.15. Controlling CPU frequency
		(clpcpufreq command)
clptrnreq	Requests a server to execute a process.	2.16. Processing inter-cluster
		linkage (clptrnreq command)
clprexec	Requests that an EXPRESSCLUSTER server exe-	2.17. Requesting processing to
	cute a process from external monitoring.	cluster servers (clprexec com-
		mand)
clpbmccnf	Changes the information on BMC user name and	2.18. Changing BMC information
	password.	(clpbmccnf command)

• Commands for logs

command	Explanation	Refer to		
clplogcc	Collects logs and OS information.	2.7. Collecting logs (clplogcc		
		command)		
clplogcf	Modifies and displays log level and log output file	2.10. Modifying the log level and		
	size.	size (clplogcf command)		
clpperfc	Displays cluster statistical information on a group or	2.22. Displaying the cluster statis-		
	a monitor resource.	tics information (clpperfc com-		
		mand)		

• Script-related commands

command	Explanation	Refer t	0	
clplogcmd	Write this command in the EXEC resource script to	2.12.	Outputting	messages
	output messages to any destination.	(clplogcmd command)		

• System monitor-related commands (when the System Resource Agent is used)

command	Explanation	Refer to
clpprer	Estimates the future value from the tendency of the	2.20. Estimating the amount of re-
	given resource use amount data.	source usage (clpprer command)

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 [group_name] [--detail]
clpstat: --rsc [resource_name] [--detail]
clpstat: --mon [monitor_name] [--detail]
```

Description

Displays the server status and configuration information.

Option

-s

None

Displays the status.

--long

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

-g

Displays a group map.

-m

Displays the status of each monitor resource.

-i

Displays the configuration data.

--cl

Displays the configuration data.

--sv

Displays the server configuration information.

--grp [group_name]

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 [resource_name]

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 [monitor name]

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
9	The command was run duplicatedly.
Other than the above	Failure

Notes

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

The EXPRESSCLUSTER daemon must be activated on the server that runs this command.

For the language used for this command output, see "Info tab" of "Cluster properties" in "Details of other settings" in "EXPRESSCLUSTER X SingleServerSafe Configuration Guide".

When you run the clostat command with the -s option or without any option, names such as a server name and a resource name are displayed only partway.

Error Messages

Message	Cause/Solution
Log in as root.	Log on as root user.
Invalid configuration file. Create valid cluster con-	Create valid cluster configuration data by using the
figuration data.	Cluster WebUI.
Invalid option.	Specify a valid option.
Could not connect to the server. Check if the cluster	Check if the cluster daemon is activated.
daemon is active.	
Invalid server status.	Check if the cluster daemon is activated.
Server is not active. Check if the cluster daemon is	Check if the cluster daemon is activated.
active.	
Invalid server name. Specify a valid server name in	Specify the valid name of a server in the cluster.
the cluster.	
Invalid heartbeat resource name. Specify a valid	Specify the valid name of a heartbeat resource in the
heartbeat resource name in the cluster.	cluster.

Table 2.7 – continued from previous page

Message	Cause/Solution
moodago	Oddoo, Gordion
Invalid network partition resource	Specify the valid name of a network partition
name. Specify a valid network	resolution resource in the cluster.
partition resource name in the cluster.	
partition resource name in the cluster.	
Invalid group name. Specify a valid group name in	Specify the valid name of a group in the cluster.
the cluster.	specify the valid name of a group in the cluster.
Invalid group resource name. Specify a valid group	Specify the valid name of a group resource in the
resource name in the cluster.	cluster.
Invalid monitor resource name. Specify a valid mon-	Specify the valid name of a monitor resource in the
itor resource name in the cluster.	cluster.
Connection was lost. Check if there is a server where	Check if there is any server on which the cluster dae-
the cluster daemon is stopped in the cluster.	mon has stopped in the cluster.
Invalid parameter.	The value specified as a command parameter may be
	invalid.
Internal communication timeout has occurred in the	A time-out occurred in the EXPRESSCLUSTER
cluster server. If it occurs frequently, set a longer	internal communication.
timeout.	If time-out keeps occurring, set the internal
	communication time-out longer.
Internal error. Check if memory or OS resources are	Check to see if the memory or OS resource is suffi-
sufficient.	cient.
Invalid server group name. Specify a valid server	Specify the correct server group name in the cluster.
group name in the cluster.	
The cluster is not created.	Create and apply the cluster configuration data.
Could not connect to the server. Internal error.	Check to see if the memory or OS resource is suffi-
Check if memory or OS resources are sufficient.	cient.
Cluster is stopped. Check if the cluster daemon is	Check if the cluster daemon is activated.
active.	
Cluster is suspended. To display the cluster status,	Cluster is suspended. To display the cluster status,
uselocal option.	uselocal option.

2.4 Operating the EXPRESSCLUSTER daemon (clpcl command)

Operates the EXPRESSCLUSTER daemon.

Command line

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

Description

This command starts, stops, suspends, or resumes the EXPRESSCLUSTER daemon.

Option

-s

Starts the EXPRESSCLUSTER daemon.

-t

Stops the EXPRESSCLUSTER daemon.

-r

Restarts the EXPRESSCLUSTER daemon.

--suspend

Suspends the EXPRESSCLUSTER daemon.

--resume

Resumes the EXPRESSCLUSTER daemon.

-w timeout

Specifies the wait time to stop or suspend the cluster daemon to be completed when -t, -r, or --suspend option is used.

The unit of time is second.

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

When "0" is specified in timeout, it does not wait for the completion of stop or suspension of the EXPRESSCLUSTER daemon.

When the -w option is not specified, it waits for the completion of stop or suspension of the EXPRESSCLUSTER daemon for (heartbeat timeout x 2) (seconds).

--force

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

--apito timeout

Specify the interval (internal communication timeout) to wait for the EXPRESSCLUSTER daemon start or stop in seconds. A value from 1 to 9999 can be specified.

If the --apito option is not specified, waiting for the EXPRESSCLUSTER daemon start or stop is performed according to the value set to the internal communication timeout of the cluster properties.

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 clostat command to display the started or resumed status of the EXPRESSCLUSTER daemon.

Notes

EXPRESSCLUSTER X SingleServerSafe 4.2 for Linux Operation Guide, Release 2

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

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

Execute the --suspend option when the EXPRESSCLUSTER daemon is active. The --force option forcibly suspends the EXPRESSCLUSTER daemon.

When executing the --resume option, make sure that the EXPRESSCLUSTER daemon is not running by the clustat command.

Example

Example 1: Activating the EXPRESSCLUSTER daemon in the server

clpcl -s

· Suspend and Resume

When you want to update configuration data or EXPRESSCLUSTER, you can stop the EXPRESSCLUSTER daemon while continuing the operation. This status is called "suspend." Returning from the suspended status to normal status is called "resume."

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

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

- All monitor resources stop.
- You cannot perform operations on groups or group resources (start/stop).
- You cannot display information or perform operations by using the Cluster WebUI or clpstat command.
- The following commands are disabled;
 - * clpstat:
 - * clpcl options other than --resume
 - * clpstdn
 - * clpgrp
 - * clptoratio
 - * clpmonctrl

Error Messages

Message	Cause/Solution
Log in as root.	Log on as root user.
Invalid configuration file. Create valid cluster con-	Create valid cluster configuration data using the
figuration data .	Cluster WebUI.
Invalid option.	Specify a valid option.
Performed stop processing to the stopped cluster	The stopping process has been executed on the
daemon.	stopped cluster daemon.
Performed startup processing to the active cluster	The startup process has been executed on the acti-
daemon.	vated cluster daemon.
Could not connect to the server. Check if the cluster	Check if the cluster daemon is activated.
daemon is active.	

Table 2.8 – continued from previous page

Table 2.8 – Continue	
Message	Cause/Solution
Could not connect to the data transfer server. Check	Check if the server is running.
if the server has started up.	
Failed to obtain the list of nodes.	Specify the valid name of a server in the cluster.
Specify a valid server name in the cluster.	
Failed to obtain the daemon name.	Failed to obtain the cluster name.
Failed to operate the daemon.	Failed to control the cluster.
Resumed the daemon that is not suspended.	Performed the resume process for the HA Cluster
	daemon that is not suspended.
Invalid server status.	Check that the cluster daemon is activated.
Server is busy. Check if this command is already run.	This command may have already been run.
Server is not active. Check if the cluster daemon is	Check if the cluster daemon is activated.
active.	
There is one or more servers of which cluster daemon	When you execute the command to resume, check if
is active. If you want to perform resume, check if	there is no server in the cluster on which the cluster
there is any server whose cluster daemon is active in	daemon is activated.
the cluster.	
All servers must be activated. When suspending the	When you execute the command to suspend, the
server, the cluster daemon need to be active on all	cluster daemon must be activated in all servers in the
servers in the cluster.	cluster.
Resume the server because there is one or more sus-	Execute the command to resume because some
pended servers in the cluster.	server(s) in the cluster is in the suspend status.
Invalid server name. Specify a valid server name in	Specify the valid name of a sever in the cluster.
the cluster.	
Connection was lost. Check if there is a server where	Check if there is any server on which the cluster dae-
the cluster daemon is stopped in the cluster.	mon is stopped in the cluster.
Invalid parameter.	The value specified as a command parameter may be
1	invalid.
Internal communication timeout has occurred in the	A time-out occurred in the HA Cluster internal com-
cluster server. If it occurs frequently, set the longer	munication.
timeout.	If time-out keeps occurring, set the internal commu-
	nication time-out longer.
Processing failed on some servers. Check the status	If stopping has been executed with all the servers
of failed servers.	specified, there is one of more server on which the
	stopping process has failed.
	Check the status of the server(s) on which the stop-
	ping process has failed.
Internal error. Check if memory or OS resources are	Check to see if the memory or OS resource is suffi-
sufficient.	cient.
There is a server that is not suspended in cluster.	There is a server that is not suspended in the cluster.
Check the status of each server.	Check the status of each server.
Suspend %s : Could not suspend in time.	The server failed to complete the suspending pro-
*	cess of the cluster daemon within the time-out pe-
	riod. Check the status of the server.
Stop %s : Could not stop in time.	The server failed to complete the stopping process
The state of the s	of the cluster daemon within the time-out period.
	Check the status of the server.
Stop %s : Server was suspended.	The request to stop the cluster daemon was made.
Could not connect to the server. Check if the cluster	However the server was suspended.
daemon is active.	Trome ver the berver was suspended.
duction is active.	

Table 2.8 – continued from previous page

Message	Cause/Solution
Could not connect to the server. Check if the cluster	The request to stop the cluster daemon was made.
daemon is active.	However connecting to the server failed. Check the
	status of the server.
Suspend %s : Server already suspended.	The request to suspend the cluster daemon was
Could not connect to the server. Check if the cluster	made. However the server was suspended.
daemon is active.	
Event service is not started.	Event service is not started. Check it.
Mirror Agent is not started.	Mirror Agent is not started. Check it.
Event service and Mirror Agent are not started.	Event service and Mirror Agent are not started.
	Check them.
Some invalid status. Check the status of cluster.	The status of a group may be changing. Try again
	after the status change of the group is complete.

2.5 Shutting down the server (clpstdn command)

Shuts down the server.

Command line

clpstdn [-r]

Description

Stops and shuts down the EXPRESSCLUSTER daemon of the server.

Option

None

Shuts down the server.

-r

Shuts down and reboots the server.

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 root privilege.

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

Examples

Example 1: Shutting down the server

clpstdn

Example 2: Shutting down and rebooting the server

clpstdn -r

2.6 Operating groups (clpgrp command)

Operates groups.

Command line

```
clpgrp -s [group_name] [--apito timeout]
clpgrp -t [group_name] [--apito timeout]
```

Description

Starts and stops groups.

Option

-s [group_name]

Starts a group. When you specify the name of a group, only the specified group starts up. If no group name is specified, all groups start up.

-t [group_name]

Stops a group. When you specify the name of a group, only the specified group stops. If no group name is specified, all groups stop.

--apito timeout

Specify the interval (internal communication timeout) to wait for the group resource start or stop in seconds. A value from 1 to 9999 can be specified.

If the --apito option is not specified, waiting for the group resource start or stop is performed according to the value set to the internal communication timeout of the cluster properties.

Return Value

0	Success
Other than 0	Failure

Notes

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

The EXPRESSCLUSTER daemon must be activated on the server that runs this command.

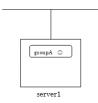
Examples

The following is a simple example of group operation.

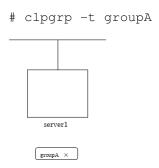
The server has groupA.

• Run the following command on the server. Then groupA starts.

```
# clpgrp -s groupA
```



• Run the following command on the server. Then group A stops.



Error message

Message	Cause/Solution
Log in as root.	Log on as root user.
Invalid configuration file. Create valid cluster con-	Create valid cluster configuration data using the
figuration data.	Cluster WebUI.
Invalid option.	Specify a valid option.
Could not connect to the server. Check if the cluster	Check if the cluster daemon is activated.
daemon is active.	
Invalid server status.	Check if the cluster daemon is activated.
Server is not active. Check if the cluster daemon is	Check if the cluster daemon is activated.
active.	
Invalid server name. Specify a valid server name in	Specify the valid name of sever in the cluster.
the cluster.	
Connection was lost. Check if there is a server where	Check if there is any server on which the cluster dae-
the cluster daemon is stopped in the cluster.	mon has stopped in the cluster.
Invalid parameter.	The value specified as a command parameter may be
	invalid.
Internal communication timeout has occurred in the	A time-out occurred in the EXPRESSCLUSTER
cluster server. If it occurs frequently, set a longer	internal communication.
timeout.	
timeout.	If time-out keeps occurring, set the internal
	communication time-out longer.
Invalid server. Specify a server that can run and stop	The server that starts/stops the group or to which the
the group, or a server that can be a target when you	group is moved is invalid.
move the group.	Specify a valid server.
Could not start the group. Try it again after the other	Start up the group after waiting for the remote server
server is started, or after the Wait Synchronization	to start up, or after waiting for the time-out of the
time is timed out.	start-up wait time.
	Continued on next page

Table 2.9 – continued from previous page

Cause/Solution
Check if there is any group that is operable in the
server which requested the process.
Check the status of the group by using the Cluster
WebUI or the clpstat command.
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.
Check the status of the group by using the Cluster WebUI or clpstat command.
If you want to move a group which was started on a remote server, run the command with the "-h <hostname>" option.</hostname>
Check the status of the group by using the Cluster WebUI or the clpstat command.
Check the status of group by using Cluster WebUI or the clpstat command.
Check the status of group by using the Cluster WebUI or the clpstat command.
Wait for a while and then try again because the group is now being started up or stopped.
Check the status of the group by using the Cluster WebUI or the clpstat command.
Specify the valid name of a group in the cluster.
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.
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.

Table 2.9 – continued from previous page	Table	2.9 -	continued	from	previous	page
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Message	Cause/Solution
The group has been started on the other server. To migrate the group, use "-h <hostname>" option.</hostname>	Check the status of the group by using the Cluster WebUI or clpstat command. If you want to move a group which was started on a remote server, run the command with the "-h <hostname>" option.</hostname>
The specified group cannot be migrated.	The specified group cannot be migrated.
The specified group is not vm group.	The specified group is not a virtual machine group.
Migration resource does not exist.	Check the status of the group by using the Cluster WebUI or clpstat command. The resource to be migrated is not found.
Migration resource is not started.	Check the status of the group by using the Cluster WebUI or clpstat command. The resource to be migrated is not started.
Some invalid status. Check the status of cluster.	Invalid status for some sort of reason. Check the status of the cluster.
Internal error. Check if memory or OS resources are sufficient.	Check to see if the memory or OS resource is sufficient.

2.7 Collecting logs (clplogcc command)

Collects logs.

Command line

clplogcc [-t collect_type] [-r syslog_rotate_number] [-o path]

Description

Collects information including logs and the OS information by accessing the data transfer server.

Option

None

Logs are collected.

- -t collect_type
 - Specifies a log collection pattern. When this option is omitted, a log collection pattern will be type1.
- -r syslog_rotate_number

Specifies how many generations of syslog will be collected. When this option is omitted, two generations will be collected.

-o path

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

Return Value

0	Success
Other than 0	Failure

Remarks

Since log files are compressed by tar.gz, add the xzf option to the tar command to decompress them.

Notes

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

Examples

Example 1: Collecting logs from the server

```
# clplogcc
Collect Log server1 : Success
```

Log collection results (server status) of servers on which log collection is executed are displayed.

Process servername: Result (server status)

• Execution Result

For this command, the following processes are displayed.

Steps in Process	Explanation
Connect	Displayed when the access fails.
Get Filesize	Displayed when acquiring the file size fails.
Collect Log	Displayed with the file acquisition result.

The following results (server status) are displayed:

Result (server status)	Explanation
Success	Log collection succeeded.
Timeout	Timeout occurred.
Busy	The server is busy.
Not Exist File	The file does not exist.
No Freespace	No free space on the disk.
Failed	Failure caused by other errors.

Error Message

Message	Cause/Solution
Log in as root.	Log in as a root user.
Invalid configuration file. Create valid cluster	Create valid configuration data by using the Clus-
configuration data.	ter WebUI.
Invalid option.	Specify the correct option.
Specify a number in a valid range.	Specify a number within a valid range.
Specify a correct number.	Specify a valid number.
Specify correct generation number of syslog.	Specify a valid number for the syslog generation.
Collect type must be specified 'type1' or	Invalid collection type is specified.
'type2' or 'type3' or 'type4' or 'type5' or 'type6'.	
Incorrect collection type is specified.	
Specify an absolute path as the destination	Specify an absolute path for the output destination
of the files to be collected.	of collected files.

Table 2.12 – continued from previous page

Message	Cause/Solution
Specifiable number of servers are the max	The number of servers that can be specified is the
number of servers that can constitute a clus-	maximum number of servers that can be set up.
ter.	
Could not connect to the server. Check if the	Check if the cluster daemon is activated.
cluster daemon is active.	
Invalid server status.	Check if the cluster daemon is activated.
Server is busy. Check if this command is al-	This command may be run already. Check them.
ready run.	
Internal error. Check if memory or OS re-	Memory or OS resources may not be sufficient.
sources are sufficient.	Check them.

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 thorough 6 for the log collection.

	type1	type2	type3	type4	Type 5	Type 6
(1) Default collection information	у	У	у	у	n	n
(2) syslog	у	у	у	n	n	n
(3) core	у	у	n	у	n	n
(4) OS information	у	у	у	у	n	n
(5) script	у	у	n	n	n	n
(6) ESMPRO/AC	у	у	n	n	n	n
(7) HA Logs	n	у	n	n	n	n
(8) Mirror Statistics	n	n	n	n	n	n
(9) Cluster Statistics	n	n	n	n	n	у

Table 2.13 – continued from previous page

	type1	type2	type3	type4	Type 5	Type 6
(10) System resource statistical information	у	у	у	у	n	у

(y: yes, n: no)

Run this command from the command line as follows.

Example: When collecting logs using type2

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

- (1) Information to be collected by default
 - Logs of each module in the EXPRESSCLUSTER Server
 - · Alert logs
 - Attribute of each module (ls -l) in the EXPRESSCLUSTER Server
 - In bin, lib
 - In alert/bin, webmgr/bin
 - In ha/jra/bin, ha/sra/bin, ha/jra/lib, ha/sra/lib
 - In drivers/md
 - In drivers/khb
 - In drivers/ka
 - All installed packages (rpm -qa execution result)
 - EXPRESSCLUSTER X SingleServerSafe version (rpm -qi expresscls execution result)
 - distribution (/etc/*-release)
 - License Information
 - Configuration data file
 - · Policy file
 - Dump files in the shared memory used by EXPRESSCLUSTER X SingleServerSafe
 - Local node status of EXPRESSCLUSTER (clpstat --local execution results)
 - Process and thread information (ps execution result)
 - PCI device information (lspci execution result)
 - Service information (execution results of the commands such as systemctl, chkconfig, and ls)
 - Output result of kernel parameter (sysctl -a execution results)
 - glibc version (rpm -qi glibc execution result)
 - Kernel loadable module configuration (/etc/modules.conf. /etc/modprobe.conf)

- Kernel ring buffer (dmesg execution result)
- File system (/etc/fstab)
- IPC resource (ipcs execution result)
- System (uname -a execution result)
- Network statistics (netstat and ss execution result IPv4/IPv6)
- ip (execution results of the command ip addr, link, maddr, route or -s l)
- All network interfaces (ethtool execution result)
- · Information collected upon emergency OS shutdown
- libxml2 version (rpm -qi libxml2 execution result)
- Static host table (/etc/hosts)
- File system export table (exportfs -v execution result)
- User resource limitations (ulimit -a execution result)
- File system exported by kernel-based NFS (/etc/exports)
- · OS locale
- Terminal session environment value (export execution result)
- Language locale (/etc/sysconfig/i18n)
- Time zone (env date execution result)
- Work area of EXPRESSCLUSTER server
- Monitoring options

This information is collected if options are installed.

- · Collected dump information when the monitor resource timeout occurred
- · Collected Oracle detailed information when Oracle monitor resource abnormity was detected

(2) syslog

- syslog (/var/log/messages)
- syslog (/var/log/syslog)
- Syslogs for the number of generations specified (/var/log/messages.x)
- journal log (such as files in /var/run/log/journal/)

(3) core file

core file of EXPRESSCLUSTER module
 Stored in /opt/nec/clusterpro/log by the following archive names.

Alert related:

```
altyyyymmdd_x.tar
```

Directory for the WebManager server related:

```
wmyyyymmdd_x.tar
```

EXPRESSCLUSTER core related:

```
clsyyyymmdd_x.tar
```

yyyymmdd indicates the date when the logs are collected. x is a sequence number.

(4) OS information

- Kernel mode LAN heartbeat, keep alive
 - /proc/khb_moninfo
 - /proc/ka_moninfo
- /proc/devices
- · /proc/mdstat
- /proc/modules
- /proc/mounts
- /proc/meminfo
- /proc/cpuinfo
- · /proc/partitions
- /proc/pci
- · /proc/version
- /proc/ksyms
- /proc/net/bond*
- all files of /proc/scsi/ all files in the directory
- all files of /proc/ide/ all files in the directory
- /etc/fstab
- /etc/syslog.conf
- /etc/syslog-ng/syslog-ng.conf
- /proc/sys/kernel/core_pattern
- /proc/sys/kernel/core_uses_pid
- /etc/snmp/snmpd.conf
- Kernel ring buffer (dmesg execution result)
- ifconfig (ifconfig execution result)
- iptables (iptables -L execution result)
- ipchains (ipchains -L execution result)
- df (df execution result)
- raw device information (raw -qa execution result)
- kernel module load information (Ismod execution result)
- host name, domain information (hostname, domainname execution result)
- dmidecode (dmidecode execution result)
- LVM device information (vgdisplay -v execution result)
- snmpd version information (snmpd -v execution result)
- Virtual Infrastructure information (the result of running virt-what)

When you collect logs, you may find the following message on the console. This does not mean failure. The logs are collected normally.

```
hd#: bad special flag: 0x03
ip_tables: (C) 2000-2002 Netfilter core team
```

(Where hd# is the name of the IDE device that exists on the server)

(5) Script

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

If you specify a user-defined script other than the above (/opt/nec/clusterpro/scripts), it is not included in the log collection information. It must be collected separately.

(6) ESMPRO/AC Related logs

Files that are collected by running the acupslog command.

- (7) HA logs
 - System resource information
 - · JVM monitor log
 - System monitor log
- (8) Mirror Statistics

This version does no collect.

- (9) Cluster Statistics
 - · Cluster Statistics
 - In perf/cluster
- (10) System resource statistics
 - System resource statistics
 - In perf/system

2.7.2 syslog generations (-r option)

To collect syslogs for the number of generations specified, run the following command.

Example: Collecting logs for the 3 generations

```
# clplogcc -r 3
```

The following syslogs are included in the collected logs.

/var/log/messages

/var/log/messages.1

/var/log/messages.2

- When no option is specified, two generations are collected.
- You can collect logs for 0 to 99 generations.

• When 0 is specified, all syslogs are collected.

Number of Generation	Number of generations to be acquired
0	All Generations
1	Current
2	Current + Generation 1
3	Current + Generation 1 to 2
:	
X	Current + Generation 1 to (x - 1)

2.7.3 Output paths of log files (-o option)

- Log file is named and be saved as "server name-log.tar.gz".
- Since log files are compressed by tar.gz, add the xzf option to the tar command to decompress them.

If not specifying -o option

Logs are output in tmp of installation path.

```
# clplogcc
Collect Log server-name: Success
# ls /opt/nec/clusterpro/tmp
server-name-log.tar.gz
```

When the -o option is specified:

If you run the command as follows, logs are located in the specified /home/log directory.

```
# clplogcc -o /home/log
Collect Log server-name: Success
# ls /home/log
server-name-log.tar.gz
```

2.7.4 Collecting information when a failure occurs

When the following failure occurs, the information for analyzing the failure is collected.

- When a server daemon configuring the server abnormally terminates due to interruption by a signal (core dump), an internal status error, or another cause
- When a group resource activation error or deactivation error occurs
- When monitoring error occurs in a monitor resource

Information to be collected is as follows:

- · Server information
 - Some module logs in EXPRESSCLUSTER servers
 - Dump files in the shared memory used by EXPRESSCLUSTER X SingleServerSafe
 - Configuration data file
 - Core files of EXPRESSCLUSTER module
- OS information (/proc/*)
 - /proc/devices

EXPRESSCLUSTER X SingleServerSafe 4.2 for Linux Operation Guide, Release 2

- /proc/partitions
- /proc/mdstat
- /proc/modules
- /proc/mounts
- /proc/meminfo
- /proc/net/bond*
- Information created by running a command
 - Results of the sysctl -a
 - Results of the ps
 - Results of the top
 - Results of the ipcs
 - Results of the netstat -i
 - Results of the ifconfig
 - Results of the df
 - Results of the raw -qa
 - journalctl -e 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 -ll-w [-p portnumber] [-x directory] [--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.

-1

Specify this option when using the configuration data with the data saved by the Cluster WebUI on Linux. You cannot specify -l and -w together.

-w

Specify this option when using the configuration data with the data saved by the Cluster WebUI on Windows.

You cannot specify both -l and -w together.

-p

portnumber Specifies a port number of data transfer port.

When this option is omitted, the default value is used. In general, it is not necessary to specify this option.

```
-x directory
```

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

Use this option with either -l or -w.

When -1 is specified, configuration data saved on the file system by the Cluster WebUI on Linux is used.

When -w is specified, configuration data saved by the Cluster WebUI on Windows is used.

--nocheck

Configuration data is not checked. Use this option only when deleting a server.

Return Value

0	Success
Other than 0	Failure

Notes

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

Examples

Example 1: Delivering configuration data that was saved on the file system using the Cluster WebUI on Linux

```
# clpcfctrl --push -l -x /mnt/config
file delivery to server 127.0.0.1 success.
The upload is completed successfully.(cfmgr:0)
Command succeeded.(code:0)
```

Error Message

Message	Cause/Solution
Log in as root.	Log on as a root user.
This command is already run.	This command has already been run.
Invalid option.	The option is invalid. Check the option.
Invalid mode. Check ifpush orpull option is specified.	Check if thepush is specified.
The target directory does not exist.	The specified directory does not exist.
Invalid host name. Server specified by -h option is not included in the configuration data.	The server specified with -h is not included in configuration data. Check if the specified server name or IP address is correct.

Table 2.15 – continued from previous page

	ed from previous page
Message	Cause/Solution
Canceled.	This message is displayed when you enter a character other than "y" in response to the command.
	Memory or OS resources may not be sufficient. Check
Failed to initialize the xml library.	them.
Check if memory or OS resources are sufficient.	
	Memory or OS resources may not be sufficient. Check
Failed to load the configuration file.	them.
Check if memory or OS resources are sufficient.	
	Memory or OS resources may not be sufficient. Check
Failed to change the configuration file.	them.
Check if memory or OS resources are sufficient.	
- "	
Failed to load the all.pol file.	Reinstall the EXPRESSCLUSTER Server RPM.
Reinstall the RPM.	
Failed to load the cfctrl.pol file.	Reinstall the EXPRESSCLUSTER Server RPM.
Reinstall the RPM.	Reinstail the EAFRESSCLOSTER Server RFWI.
nemstan the new.	
Failed to get the install path.	Reinstall the EXPRESSCLUSTER Server RPM.
Reinstall the RPM.	
Failed to get the cfctrl path.	Reinstall the EXPRESSCLUSTER Server RPM.
Reinstall the RPM.	
Failed to get the list of group.	Failed to acquire the list of group.
Failed to get the list of resource.	Failed to acquire the list of resource.
Failed to initialize the trncl library.	Memory or OS resources may not be sufficient. Check
_	them.
Check if memory or OS resources are sufficient.	them.
Failed to connect to server %1.	Accessing the server has failed. Check if other
Check if the other server is active and then run the	server(s) has been started.
command again.	Run the command again after the server has started up.
Failed to connect to trnsv.	Accessing the server has failed. Check if other
Check if the other server is active.	server(s) has been started.

Table 2.15 – continued from previous page

Message	Cause/Solution
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.
The directory "/work" is not found. Reinstall the RPM.	Reinstall the EXPRESSCLUSTER Server RPM.
Failed to make a working directory.	Memory or OS resources may not be sufficient. Check them.
The directory does not exist.	Memory or OS resources may not be sufficient. Check them.
This is not a directory.	Memory or OS resources may not be sufficient. Check them.
The source file does not exist.	Memory or OS resources may not be sufficient. Check them.
The source file is a directory.	Memory or OS resources may not be sufficient. Check them.
The source directory does not exist.	Memory or OS resources may not be sufficient. Check them.
The source file is not a directory.	Memory or OS resources may not be sufficient. Check them.
Failed to change the character code set (EUC to SJIS).	Memory or OS resources may not be sufficient. Check them.
Failed to change the character code set (SJIS to EUC).	Memory or OS resources may not be sufficient. Check them.
Command error.	Memory or OS resources may not be sufficient. Check them.
Failed to initialize the cfmgr library. Check if memory or OS resources are sufficient.	Memory or OS resources may not be sufficient. Check them.
Failed to get size from the cfmgr library. Check if memory or OS resources are sufficient.	Memory or OS resources may not be sufficient. Check them.
	Continued on port page

Table 2.15 – continued from previous page

Table 2.15 – continued from previous page		
Message	Cause/Solution	
Failed to allocate memory.	Memory or OS resources may not be sufficient. Check them.	
Failed to change the directory.	Memory or OS resources may not be sufficient. Check them.	
Failed to run the command.	Memory or OS resources may not be sufficient. Check them.	
Failed to make a directory.	Memory or OS resources may not be sufficient. Check them.	
Failed to remove the directory.	Memory or OS resources may not be sufficient. Check them.	
Failed to remove the file.	Memory or OS resources may not be sufficient. Check them.	
Failed to open the file.	Memory or OS resources may not be sufficient. Check them.	
Failed to read the file.	Memory or OS resources may not be sufficient. Check them.	
Failed to write the file.	Memory or OS resources may not be sufficient. Check them.	
Internal error. Check if memory or OS resources are sufficient.	Memory or OS resources may not be sufficient. Check them.	
The upload is completed successfully. To apply the changes you made, shutdown and reboot the cluster.	The upload is completed successfully. To apply the changes you made, shut down the server, and then reboot it.	
The upload was stopped. To upload the cluster configuration data, stop the cluster.	The upload was stopped. To upload the configuration data, stop the server.	
The upload was stopped. To upload the cluster configuration data, stop the Mirror Agent.	The upload was stopped. To upload the configuration data, stop MirrorAgent.	
The upload was stopped. To upload the cluster configuration data, stop the resources to which you made changes.	The upload was stopped. To upload the configuration data, stop the resources you changed.	
The upload was stopped. To upload the cluster configuration data, stop the groups to which you made changes.	The upload was stopped. To upload the configuration data, suspend the server. To upload, stop the group to which you made changes.	

Table 2.15 – continued from previous page

Message	Cause/Solution
The upload was stopped. To upload the cluster configuration data, suspend the cluster.	The upload was stopped. To upload the configuration data, suspend the server.
The upload is completed successfully. To apply the changes you made, restart the Alert Sync. To apply the changes you made, restart the WebManager.	The upload is completed successfully. To apply the changes you made, restart the AlertSync service. To apply the changes you made, restart the WebManager service.
Internal error. Check if memory or OS resources are sufficient.	Memory or OS resources may not be sufficient. Check them.
The upload is completed successfully.	The upload is completed successfully.
The upload was stopped. Failed to deliver the configuration data. Check if the other server is active and run the command again.	The upload was stopped. Delivering configuration data has failed. Check if the other server is active and run the command again.
The upload was stopped. There is one or more servers that cannot be connected to. To apply cluster configuration information forcibly, run the command again with "force" option.	The upload was stopped. The server that cannot connect exists. To forcibly upload the configuration data, run the command again with theforce option.

2.8.2 Backing up the configuration data (clpcfctrl --pull)

Backs up the configuration data.

Command line

clpcfctrl --pull -ll-w [-p portnumber] [-x directory]

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.

-1

Specify this option when backing up data as the configuration data that is used for the Cluster WebUI on Linux.

You cannot specify both -l and -w together.

-w

Specify this option when backing up data as the configuration data that is used for the Cluster WebUI on Windows.

You cannot specify both -l and -w together.

-p

portnumber Specifies a port number of data transfer port.

When this option is omitted, the default value is used. In general, it is not necessary to specify this option.

-x directory

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

Use this option with either -l or -w.

When -l is specified, configuration data is backed up in the format which can be loaded by the Cluster WebUI on Linux.

When -w is specified, configuration data is saved in the format which can be loaded by the Cluster WebUI on Windows.

Return Value

0	Success
Other than 0	Failure

Notes

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

Examples

Example 1: Backing up configuration data to the specified directory so that the data can be loaded by the Cluster WebUI on Linux

```
# clpcfctrl --pull -1 -x /mnt/config
Command succeeded.(code:0)
```

Error Message

Message	Cause/Solution
Log in as root.	Log on as a root user.
This command is already run.	This command has already been run.
Invalid option.	The option is invalid. Check the option.
Invalid mode. Check ifpush orpull option is specified.	Check if thepull is specified.
The target directory does not exist.	The specified directory does not exist.

Table 2.16 – continued from previous page

lable 2.16 – continued from previous page		
Message Canceled.	Cause/Solution	
Canceled.	This message is displayed when you enter a characted other than "y" in response to the command.	
	Memory or OS resources may not be sufficient.	
Failed to initialize the xml library.	Check them.	
,	Check them.	
Check if memory or OS resources are sufficient.		
suncient.		
	Memory or OS resources may not be sufficient.	
Failed to load the configuration file.	Check them.	
_	Check them.	
Check if memory or OS resources are sufficient.		
Sunicient.		
	Memory or OS resources may not be sufficient.	
Failed to change the configuration file.	Check them.	
Check if memory or OS resources are	Check them.	
sufficient.		
Sumcient.		
Failed to load the all.pol file.	Reinstall the EXPRESSCLUSTER Server RPM.	
Reinstall the RPM.		
Tromotan the Ft. W.		
Failed to load the cfctrl.pol file.	Reinstall the EXPRESSCLUSTER Server RPM.	
Reinstall the RPM.		
Tromotan the Ft. W.		
Failed to get the install path.	Reinstall the EXPRESSCLUSTER Server RPM.	
Reinstall the RPM.		
Failed to get the cfctrl path.	Reinstall the EXPRESSCLUSTER Server RPM.	
Reinstall the RPM.		
Falled to initialine the twent library	Manage of the state of the stat	
Failed to initialize the trncl library.	Memory or OS resources may not be sufficient.	
Check if memory or OS resources are	Check them.	
sufficient.		
Failed to connect to server %1.	Accessing the server has failed. Check if other	
	server(s) has been started.	
Check if the other server is active and then run	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
the command again.	Run the command again after the server has started	
	up.	
Failed to connect to trnsv.	Accessing the server has failed. Check if other	
Check if the other server is active.	server(s) has been started.	
22		

Table 2.16 – continued from previous page

d from previous page Cause/Solution	
Cause/Solution	
Acquiring configuration data has failed. Check if other server(s) has been started.	
Reinstall the EXPRESSCLUSTER Server RPM.	
Memory or OS resources may not be sufficient. Check them.	
Memory or OS resources may not be sufficient. Check them.	
Memory or OS resources may not be sufficient. Check them.	
Memory or OS resources may not be sufficient. Check them.	
Memory or OS resources may not be sufficient. Check them.	
Memory or OS resources may not be sufficient. Check them.	
Memory or OS resources may not be sufficient. Check them.	
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Memory or OS resources may not be sufficient. Check them.	
Memory or OS resources may not be sufficient. Check them.	
Memory or OS resources may not be sufficient. Check them.	
Memory or OS resources may not be sufficient. Check them.	
Memory or OS resources may not be sufficient. Check them.	
Memory or OS resources may not be sufficient. Check them.	

Table 2.16 – continued from previous page

Message	Cause/Solution	
Failed to open the file.	Memory or OS resources may not be sufficient.	
	Check them.	
Failed to read the file.	Memory or OS resources may not be sufficient.	
	Check them.	
Failed to write the file.	Memory or OS resources may not be sufficient.	
	Check them.	
Internal error. Check if memory or OS resources are sufficient.	Memory or OS resources may not be sufficient. Check them.	

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
- · Heartbeat 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 maxim timeout ratio is 10,000.

If you specify "1," you can return the modified timeout ratio to the original as you can do so when you are using the -i option.

 $-\mathbf{t}$ 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 have set will become ineffective. However, if the server is not shut down, the timeout ratio and the extension period that you have set will be maintained.

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.

Heartbeat timeout

```
# clpstat --cl --detail
```

Monitor resource timeout

```
# clpstat --mon monitor resource name --detail
```

Notes

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

Execute this command when the EXPRESSCLUSTER daemon of the server is active.

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 Message

Message	Cause/Solution
Log in as root.	Log on as root user.
Invalid configuration file. Create valid cluster	Create valid cluster configuration data by using the
configuration data.	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	Specify 1 or larger integer for ratio.
of 1 or more.	
Specify scale factor in a range less than the	Specify a ratio that is not larger than the maximum
maximum scale factor.	ratio.
Set the correct extension period.	Set a valid extension period.
Ex) 2m, 3h, 4d	Set the extension period which does not exceed the
	maximum ratio.
Set the extension period in a range less than the	Check if the cluster daemon is activated.
maximum extension period.	
Could not connect to the server. Check if the	Check if the cluster daemon is activated.
cluster daemon is active.	
Server is not active. Check if the cluster dae-	Check if there is any server in the cluster with the
mon is active.	cluster daemon stopped.
Connection was lost. Check if there is a server	Check if there is any server in the cluster with the
where the cluster daemon is stopped in the clus-	cluster daemon stopped.
ter.	
Invalid parameter.	The value specified as a parameter of the command
	may be invalid.
Internal communication timeout has occurred in	Time-out has occurred in the internal communication
the cluster server. If it occurs frequently, set the	of EXPRESSCLUSTER. If it occurs frequently, set
longer timeout.	the internal communication time-out longer.
Processing failed on some servers. Check the	There are servers that failed in processing. Check the
status of failed servers.	status of server in the cluster. Operate it while all the
	servers in the cluster are up and running.
Internal error. Check if memory or OS resources	Check to see if the memory or OS resource is suffi-
are sufficient.	cient.

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 type

Specifies a module type whose settings will be changed.

If both -l and -s are omitted, the information set to the specified module will be displayed. See the list of "Types that can be specified to the -t option" for types which can be specified.

-1 level

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.

See the list of "Default log levels and log file sizes" for default values of each module type.

-s

size 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 four log files. Therefore, it is necessary to have the disk space that is four times larger than what is specified by -s.

Notes

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

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

The settings revert to the default values when the server restarts.

Examples

Example 1: Modifying the pm log level

```
# clplogcf -t pm -1 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 Message

Message	Cause/Solution
Log in as root.	Log on as a root user.
Invalid option.	The option is invalid. Check the option.
Failed to change the configuration. Check if clpevent	clpevent may not be started yet.
is running.	
Invalid level	The specified level is invalid.
Invalid size	The specified size is invalid.
Failed to load the configuration file. Check if mem-	The server has not been created.
ory or OS resources are sufficient.	
Failed to initialize the xml library. Check if memory	Memory or OS resources may not be sufficient.
or OS resources are sufficient.	Check them.
Failed to print the configuration. Check if clpevent is	clpevent may not be started yet.
running.	

Types that can be specified for the -t option (y=yes, n=no)

Type:	Module Type	Explanation The PRESSC TER Serv	
apicl	libclpapicl.so.1.0	API client library	у
apisv	libclpapisv.so.1.0	API server	у
bmccnf	clpbmccnf	BMC information update command	у
cl	clpcl	Server startup and stop command	у
cfctrl	clpcfctrl	Server generation and server infor-	у
		mation backup command	
cfmgr	libclpcfmgr.so.1.0	Configuration data operation library	у
cpufreq	clpcpufreq	CPU frequency control command	у
grp	clpgrp	Group startup and stop command	у
rsc	clprsc	Group resource startup and stop com-	у
		mand	
haltp	clpuserw	Shutdown stalling monitoring	у
healthchk	clphealthchk	Process health check command	у
ibsv	clpibsv	Information Base server	у
Icns	libelplens.so.1.0	License library	у
Icnsc	clplcnsc	License registration command	у
logcc	clplogcc	Collect logs command	у
logcf	clplogcf	Log level and size modification com- y	
		mand	
logcmd	clplogcmd	Alert producing command	у
mail	clpmail	Mail Report	у
mgtmib	libclpmgtmib.so.1.0	SNMP coordination library	у
monctrl	clpmonctrl	Monitoring control command	у
nm	clpnm	Node map management	у
pm	clppm	Process management	у
rc/rc_ex	clprc	Group and group resource manage- y	
		ment	
reg	libclpreg.so.1.0	Reboot count control library	у
regctrl	clpregctrl	Reboot count control command	у

Table 2.19 – continued from previous page

Typo:	Module Type	Explanation	The EX-
Type:	Module Type	Explanation	PRESSCLUS-
			TER Server
rm	alnem	Manitar managament	
rm	clprm	Monitor management Disk control	у
roset	clproset	Process kill command	У
relpath	clprelpath		У
scrpc	clpscrpc	Script log rotation command	У
stat	clpstat:	Status display command	У
stdn	clpstdn	Server shutdown command	У
toratio	clptoratio	Timeout ratio modification command	у
trap	clptrap	SNMP trap command	у
trncl	libelptrnel.so.1.0	Transaction library	у
rexec	clprexec	External monitoring link processing	у
		request command	
trnsv	clptrnsv	Transaction server	у
volmgrc	clpvolmgrc	VxVM disk group import/deport	у
		command	
alert	clpaltinsert	Alert	у
webmgr	clpwebmc	WebManager service	у
webalert	clpaltd	Alert synchronization	у
exec	clpexec	Exec resource	у
vm	clpvm	VM resource	y
diskw	clpdiskw	Disk monitor resource	y
ipw	clpipw	IP monitor resource	у
miiw	clpmiiw	NIC Link Up/Down monitor resource	у
mtw	clpmtw	Multi target monitor resource	у
pidw	clppidw	PID monitor resource	y
volmgrw	clpvolmgrw	Volume manager monitor resource	у
userw	clpuserw	User mode monitor resource	у
vmw	clpvmw	VM monitor resource	у
mrw	clpmrw	Message reception monitor resource	у
snmpmgr	libelp snmpmgr	SNMP trap reception library	у
lanhb	clplanhb	LAN heartbeat	У
oraclew	clp_oraclew	Oracle monitor resource	У
db2w	clp_db2w	DB2 monitor resource	y
psqlw	clp_psqlw	PostgreSQL monitor resource	y
mysqlw	clp_psqlw clp_mysqlw	MySQL monitor resource	
sybasew	clp_mysqrw clp_sybasew	Sybase monitor resource	У
odbcw		ODBC monitor resource	у
sqlserverw	clp_odbcw	SQL Server monitor resource	у
<u> </u>	clp_sqlserverw		У
sambaw	clp_sambaw	Samba monitor resource	у
nfsw	clp_nfsw	NFS monitor resource	У
httpw	clp_httpw	HTTP monitor resource	У
ftpw	clp_ftpw	FTP monitor resource	У
smtpw	clp_smtpw	SMTP monitor resource	У
pop3w	clp_pop3w	POP3 monitor resource	У
imap4w	clp_imap4w	IMAP4 monitor resource	у
tuxw	clp_tuxw	Tuxedo monitor resource	у
wlsw	clp_wlsw	WebLogic monitor resource WebSphere monitor resource	у
wasw	clp_wasw	XXX 1 G 1	у

Table 2.19 – continued from previous page

Type:	Module Type	Explanation	The EX- PRESSCLUS- TER Server
otxw	clp_otxw	WebOTX monitor resource	у
jraw	clp_jraw	JVM monitor resource	у
sraw	clp_sraw	System monitor resource	у
psrw	clp_psrw	Process resource monitor resource	у
psw	clppsw	Process name monitor resource	у
vmctrl	libclpvmctrl.so.1.0	VMCtrl library	у
vmwcmd	clpvmwcmd	VMW command	у
perfc	clpperfc	Command to display cluster statistical information	у
cfchk	clpcfchk	Command to check cluster configuration data	У

Default log levels and log file sizes

Type	Level	Size (byte)
apicl	4	5000000
apisv	4	5000000
bmccnf	4	1000000
cfmgr	4	1000000
cl	4	1000000
cfctrl	4	1000000
cpufreq	4	1000000
down	4	1000000
grp	4	1000000
rsc	4	1000000
haltp	4	1000000
healthchk	4	1000000
ibsv	4	5000000
Icns	4	1000000
Icnsc	4	1000000
ledctrl	4	1000000
logcc	4	1000000
logcf	4	1000000
logcmd	4	1000000
mail	4	1000000
mgtmib	4	1000000
mm	4	2000000
monctrl	4	1000000
nm	4	2000000
pm	4	1000000
rc	4	5000000
rc_ex	4	5000000
rd	4	1000000
rdl	4	1000000
reg	4	1000000
regctrl	4	1000000
rm	4	5000000

Table 2.20 – continued from previous page

Table 2.20 – continued from previous page		
Туре	Level	Size (byte)
roset	4	1000000
relpath	4	1000000
scrpc	4	1000000
stat	4	1000000
stdn	4	1000000
toratio	4	1000000
trap	4	1000000
trncl	4	2000000
trnreq	4	1000000
rexec	4	1000000
trnsv	4	2000000
volmgr	4	1000000
alert	4	1000000
webmgr	4	1000000
webalert	4	1000000
exec	4	1000000
vm	4	1000000
bwctrl	4	1000000
arpw	4	1000000
db2w	4	4000000
diskw	4	1000000
ftpw	4	1000000
httpw	4	1000000
imap4w	4	1000000
ipw	4	1000000
miiw	4	1000000
mtw	4	1000000
mysqlw	4	4000000
nfsw	4	1000000
odbcw	4	4000000
oraclew	4	4000000
otxw	4	1000000
pidw	4	1000000
pop3w	4	1000000
psqlw	4	400000
volmgrw	4	1000000
sambaw	4	1000000
smtpw	4	1000000
sqlserverw	4	4000000
sybasew	4	4000000
tuxw	4	1000000
userw	4	1000000
vipw	4	1000000
vmw	4	1000000
ddnsw	4	1000000
mrw	4	1000000
genw	4	1000000
wasw	4	1000000
wisw	4	1000000
AAIOAA	Т	Continued on payt page

Type	Level	Size (byte)
jraw	4	1000000
sraw	4	1000000
psrw	4	1000000
psw	4	1000000
bmccmd	4	1000000
snmpmgr	4	1000000
lanhb	4	1000000
vmctrl	4	10000000
vmwcmd	4	1000000
clpka ¹	-	0
clpkhb ¹	-	0
perfc	4	1000000
cfchk	4	1000000

Table 2.20 – continued from previous page

2.11 Managing licenses (clplcnsc command)

the clplcnsc command manages licenses.

Command line

```
clplcnsc -i [licensefile...]
clplcnsc -l [-a]
clplcnsc -d serialno [-q]
clplcnsc -d -t [-q]
clplcnsc -d -a [-q]
clplcnsc --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. If nothing is specified, you need to enter license information interactively.

-1 [-a]

References the registered license.

The name of displayed items are as follows.

^{*} If the module's size is zero, its log will not be produced.

¹ Output destination of log is syslog.

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 ²³
End date	End date of valid period ²³
Status	Status of the license

Status	Explanation
valid	valid
invalid	invalid
unknown	unknown
inactive	Before valid period ²³
expired	After valid period ²³

When -a option not specifed, 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	The option is invalid
8	Other internal error

Example of a command entry:

- for registration
 - Registering the license interactively

clplcnsc -i

² Displayed in the case of the fixed term license

³ Displayed in the case of the license of trial version

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.

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-XXXXXXX]...
```

Specify a license file

```
# clplcnsc -i /tmp/cpulcns.key
```

for referring to the license

```
# clplcnsc -1
```

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.... AAAAAAAA000002
Key.... E1234567-F1234567-G1234567-H1234567
Licensed Number of Computers... 1
Status... valid
```

2. Product version (fixed term)

3. Trial version

· for deleting the license

```
# clplcnsc -d AAAAAAA000001 -q
```

· for deleting the license

```
# clplcnsc -d -t -q
```

for deleting the license

```
# clplcnsc -d -a
```

Deletion confirmation

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

Notes

Run this command as the root 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 Message

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 root.	You are not authorized to run this command. Log on	
	as the root user.	
Invalid cluster configuration data. Check the	The cluster configuration data is invalid. Check the	
cluster configuration information.	cluster configuration data by using the Cluster WebUI.	
Initialization error. Check if memory or OS re-	Check to see if the memory or OS resource is suffi-	
sources are sufficient.	cient.	
The command is already run.	The command is already running. Check the running	
	status by using a command such as the ps command.	
The license is not registered.	The license has not been registered yet.	
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 li-	Input/Output cannot be done to the license file.	
cense file exists on the specified path.	Check to see if the license file exists in the specified path.	
The field format of the license file is invalid. The	The field format of the license file is invalid. The	
license file may be corrupted. Check the desti-	license file may be corrupted. Check it with the file	
nation from where the file is sent.	sender.	
The cluster configuration data may be invalid or	The cluster configuration data may be invalid or not	
not registered.	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 en-	Check to see if the entered license information is cor-	
tered license information is correct.	rect.	
Failed to open the license. Check if the entered	Check to see if the entered license information is cor-	
license information is correct.	rect.	
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 syslog and alert logs, or reports the message by mail.

Command line

clplogcmd -m message [--syslog] [--alert] [--mail] [-i eventID] [-l level]

Note: Generally, it is not necessary to run this command to set up or operate a server. You need to write the command in the EXEC resource script.

Description

Write this command in the EXEC resource script and output messages you want to send to the destination.

Option

-m message

Specifies a message. This option cannot be omitted. The maximum size of message is 511 bytes. (When syslog is specified as an output destination, the maximum size is 485 bytes.) The message exceeding the maximum size will not be shown.

You may use alphabets, numbers, and symbols⁴.

- --syslog
- --alert
- --mail
- --trap

Specify the output destination from syslog, alert, mail and trap. (You can specify multiple destinations.) This parameter can be omitted. The syslog and alert will be the output destinations when the parameter is omitted.

-i eventID

Specify an event ID. Specify event ID. The maximum value of event ID is 10,000.

- ⁴ 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 produced.)

• The symbols below must have a backslash \ in the beginning:

```
\ ' \ '' \ \&'() \sim \ | \ ; : * <> \ , (For example, if you specify \\ in the message, \ is produced.)
```

• The symbol that must be enclosed in double quotes ("") and have a backslash \ in the beginning:

```
(For example, if you specify "\" in the message, ` is produced.)
```

- When there is a space in the **message**, it must be placed in enclosed in double quotes ("").
- The symbol % cannot be used in the **message**.

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

-1 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 root privilege.

When mail is specified as the output destination, you need to make the settings to send mails by using the mail command.

Examples

Example 1: When specifying only message (output destinations are syslog and alert):

When the following is written in the EXEC resource script, the message is produced in syslog and alert.

```
clplogcmd -m test1
```

The following log is the log output in syslog:

```
Sep 1 14:00:00 server1 clusterpro: <type: logcmd><event: 1> test1
```

Example 2: When specifying message, output destination, event ID, and level (output destination is mail): When the following is written in the EXEC resource script, the message is sent to the mail address set in the Cluster Properties of the Cluster WebUI.

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

The following information is sent to the mail destination:

```
Message:test2
Type: logcmd
ID: 100
```

(continues on next page)

(continued from previous page)

```
Host: server1
Date: 2018/09/01 14:00:00
```

Example 3: When specifying a message, output destination, event ID, and level (output destination is trap):

When the following is written in the exec resource script, the message is set to the SNMP trap destination set in **Cluster Properties** of the Cluster WebUI. For more information on the SNMP trap destination settings, see "Cluster properties - Alert Service tab" in "Details of other settings" in "EXPRESSCLUSTER X SingleServerSafe Configuration Guide".

```
clplogcmd -m test3 --trap -i 200 -1 ERR
```

The following information is sent to the SNMP trap destination:

```
Trap OID: clusterEventError

Attached data 1: clusterEventMessage = test3

Attached data 2: clusterEventID = 200

Attached data 3: clusterEventDateTime = 2011/08/01 09:00:00

Attached data 4: clusterEventServerName = server1

Attached data 5: clusterEventModuleName = logcmd
```

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 and/or resumes monitor resources.

Option

```
Suspends monitoring.
Resumes monitoring.
Resets the times counter of the recovery action.
```

-v

Displays the times counter of the recovery action.

-e

Enables the Dummy Failure. Be sure to specify a monitor resource name with the -m option.

-n

Disables the 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

Specifies one or more monitor resources to be controlled.

resource_name ...

This option can be omitted. All monitor resources are controlled when the option is omitted.

```
-w wait_time
```

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

Completed successfully.
Privilege for execution is invalid
The option is invalid
Initialization error
The configuration data is invalid.
Monitor resource is not registered.
The specified monitor resource is invalid
EXPRESSCLUSTER is not running.
The cluster daemon is suspended
Monitoring control wait timeout
Duplicated activation
Other internal error

Examples

Example 1: When suspending all monitor resources:

```
# clpmonctrl -s
Command succeeded.
```

Example 2: When resuming all monitor resources:

```
# clpmonctrl -r
Command succeeded.
```

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

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

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

EXPRESSCLUSTER X SingleServerSafe 4.2 for Linux Operation Guide, Release 2

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."

When the recovery action of monitor resource uses one of the following settings, "Final Action Count" (which is displayed in the -v option) indicates the number of times to execute a script before the final action.

• Execute Script Before Final Action: Enable

• Final action: No Operation

Error Messages

Message	Causes/Solution	
Command succeeded.	The command ran successfully.	
Log in as root.	You are not authorized to run this command. Log on	
	as root user.	
Initialization error. Check if memory or OS re-	Check to see if the memory or OS resource is suffi-	
sources are sufficient.	cient.	
Invalid cluster configuration data. Check the	The cluster configuration data is invalid. Check the	
cluster configuration information.	cluster configuration data by using the Cluster We-	
	bUI.	
Monitor resource is not registered.	The monitor resource is not registered.	
Specified monitor resource is not registered.	The specified monitor resource is not registered.	
Check the cluster configuration information.	Check the cluster configuration data by using the	
	Cluster WebUI.	
The cluster has been stopped. Check the	The cluster has been stopped.	
active status of the cluster daemon by using	Check the activation status of the cluster daemon by	
the command such as ps command.	using a command such as ps command.	
The cluster has been suspended. The cluster	The cluster daemon has been suspended. Check the	
daemon has been suspended. Check activation	activation status of the cluster daemon by using a	
status of the cluster daemon by using a com-	command such as ps command.	
mand such as the ps command.		
M		
Waiting for synchronization of the cluster. The	Synchronization of the cluster is awaited.	
cluster is waiting for synchronization. Wait for a	Try again after cluster synchronization is completed.	
while and try again.		
Manitar 9/1 was upregistered ignered. The	There is an arrangistant described was in the	
Monitor %1 was unregistered, ignored. The specified monitor resources %1 is not	There is an unregistered monitor resource in the	
registered, but continue processing. Check the	specified monitor resources but it is ignored and the	
cluster configuration data.	process is continued.	
Guster Corniguration data.	Check the cluster configuration data by using the	
	Cluster WebUI.	
	%1: Monitor resource name	

Table 2.24 – continued from previous page

Message	Causes/Solution
Monitor %1 denied control permission, ignored. but continue processing.	The specified monitor resources contain the monitor resource which cannot be controlled, but it does not affect the process. %1: Monitor resource name
This command is already run.	The command is already running. Check the running status by using a command such as ps command.
Internal error. Check if memory or OS resources are sufficient.	Check to see if the memory or OS resource is sufficient.

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

Туре	Suspending/resuming monitoring	Resetting the times counter of the recovery action	Enabling/disabling Dummy Failure
diskw	у	у	у
ipw	у	у	У
miiw	у	у	У
mtw	у	у	У
pidw	у	у	У
volmgrw	у	у	у
userw	У	у	n
vmw	У	y	n
mrw	у	у	n
genw	у	у	У
oraclew	у	у	У
db2w	у	у	У
psqlw	у	у	У
mysqlw	у	у	у
sybasew	у	у	у
odbcw	у	у	у
sqlserverw	у	у	у
sambaw	у	у	у
nfsw	у	у	у
httpw	у	у	у
ftpw	у	у	у
smtpw	у	у	у
pop3w	у	у	у
imap4w	У	y	у
tuxw	У	y	у
wlsw	У	у	у
wasw	у	у	у
otxw	y	у	у
jraw	y	y	у
sraw	У	у	у
psrw	у	у	У

Table 2.25 – continued from previous page	Table	2.25 –	continued	from	previous page
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Туре	Suspending/resuming monitoring	Resetting the times counter of the recovery action	Enabling/disabling Dummy Failure
psw	У	У	у

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

Starts and stops group resources.

Option

-s Starts group resources.

-t Stops group resources.

-f

When the group resource is online, all group resources that the specified group resource depends starts up. When the group resource is offline, all group resources that the specified group resource depends stop.

```
--apito timeout
```

Specify the interval (internal communication timeout) to wait for the group resource start or stop in seconds. A value from 1 to 9999 can be specified.

If the --apito option is not specified, waiting for the group resource start or stop is performed according to the value set to the internal communication timeout of the cluster properties.

Return Value

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

Examples

Group resource configuration

```
# clpstat
======== CLUSTER STATUS ========
Cluster : cluster
<server>
```

(continues on next page)

(continued from previous page)

Example 1: When stopping the resource (exec1) of the group (failover1)

```
# clprsc -t exec1
Command succeeded.

# clpstat

======== CLUSTER STATUS =======

<Abbreviation>
<group>
ManagementGroup: Online
Current: server1
ManagementIP: Online
failover1: Online
current: server1
exec1: Offline
<Abbreviation>
```

Example 2: When starting the resource (fip1) of the group(failover 1)

Notes

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

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

Error Messages

Message	Causes/Solution
Log in as Administrator.	Run this command as a user with Administrator priv-
	ileges.
Invalid cluster configuration data. Check the	The cluster construction information is not correct.
cluster configuration information.	Check the cluster construction information by Clus-
	ter WebUI.
Invalid option.	Specify a correct option.
Could not connect server. Check if the cluster	Check if the EXPRESSCLUSTER is activated.
service is active.	
Invalid server status. Check if the cluster ser-	Check if the EXPRESSCLUSTER is activated.
vice is active.	
Server is not active. Check if the cluster service	Check if the EXPRESSCLUSTER is activated.
is active.	
Invalid server name. Specify a valid server	Specify a correct server name in the cluster.
name in the cluster.	
Connection was lost. Check if there is a server	Check if there is any server with EXPRESSCLUS-
where the cluster service is stopped in the clus-	TER service stopped in the cluster.
ter.	
Internal communication timeout has occurred in	Timeout has occurred in internal communication in
the cluster server. If it occurs frequently, set the	the EXPRESSCLUSTER.
longer timeout.	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	Check the group resource status by using the Cluster
status of group resource.	WebUI or the clpstat command.
Could not start the group resource. Try it again	Wait until the other server starts or the wait time
after the other server is started, or after the Wait	times out, and then start the group resources.
Synchronization time is timed out.	
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	Check the group resource status by using the Cluster
on the local server.	WebUI or clpstat command.
The group resource has already been started	Charle the group recovers status by the Cl
The group resource has already been started	Check the group resource status by using the Cluster
on the other server.	WebUI or clpstat command.
	Stop the group to start the group resources on the
	local server.
The group recourse has already been stored	Charle the group recovers states because the Clark
The group resource has already been stopped.	Check the group resource status by using the Cluster
Failed to start group recourse. Check the status	WebUI or clostat command.
Failed to start group resource. Check the status	Check the group resource status by using the Cluster WebUI or clpstat command.
of group resource. Failed to stop resource. Check the status of	1
group resource. Check the status of	Check the group resource status by using the Cluster WebUI or clpstat command.
Depended resource is not offline. Check the	Because the status of the depended group resource
status of resource.	is not offline, the group resource cannot be stopped.
	Stop the depended group resource or specify the -f
	option.
	Continued on post page

Table 2.26 - continued from previous page

Message	Causes/Solution
Depending resource is not online. Check the	Because the status of the depended group is not on-
status of resource.	line, the group resource cannot be started. Start the
	depended group resource or specify the -f option.
Invalid group resource name. Specify a valid	The group resource is not registered.
group resource name in the cluster.	
Server is not in a condition to start resource or	Check the group resource status by using the Cluster
any critical monitor error is detected.	WebUI or clpstat command.
	An error is detected in a critical monitor on the
	server on which an attempt to start a group resource
	was made.
Internal error. Check if memory or OS resources	Memory or OS resources may be insufficient. Check
are sufficient.	them.

2.15 Controlling CPU frequency (clpcpufreq command)

Controls CPU frequency.

Command line

clpcpufreq --high

clpcpufreq --low

clpcpufreq -i

clpcpufreq -s

Description

Enables or disables power-saving mode by CPU frequency control.

Option

--high

Sets the highest CPU frequency.

--low

Sets the lowest CPU frequency to switch to the power-saving mode.

-i

Passes the CPU frequency control to EXPRESSCLUSTER X SingleServerSafe.

-s

Displays the current CPU frequency level.

- performance: The CPU frequency is at its highest.
- powersave: Frequency is lowered and power-saving mode is set.

Return Value

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

EXPRESSCLUSTER X SingleServerSafe 4.2 for Linux Operation Guide, Release 2

Remarks

If the driver for CPU frequency control is not loaded, an error occurs.

If the Use CPU Frequency Control checkbox is not selected in the power saving settings in server properties, this command results in error.

Notes

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

When you use CPU frequency control, it is required that frequency is changeable in the BIOS settings, and that the CPU supports frequency control by Windows OS power management function.

Error Messages

Message	Cause/Solution
Log in as root.	Log in as root user.
This command is already run.	This command has already been run.
Invalid option.	Specify a valid option.
Invalid mode. Check ifhigh orlow or -i or -s option is specified.	Check if either of thehigh,low, -I or -s option is specified.
Failed to initialize the xml library. Check if memory or OS resources are sufficient.	Check to see if the memory or OS resource is sufficient.
Failed to load the configuration file. Check if memory or OS resources are sufficient.	Check to see if the memory or OS resource is sufficient.
Failed to load the all.pol file. Reinstall the RPM.	Reinstall the EXPRESSCLUSTER Server RPM.
Failed to load the cpufreq.pol file. Reinstall the RPM.	Reinstall the EXPRESSCLUSTER Server RPM.
Failed to get the install path. Reinstall the RPM.	Reinstall the EXPRESSCLUSTER Server RPM.
Failed to get the cpufreq path. Reinstall the RPM.	Reinstall the EXPRESSCLUSTER Server RPM.
	Onational on most cons

Table 2.27 - continued from previous page

Message	Cause/Solution
Failed to initialize the apicl library. Reinstall the RPM.	Check to see if the memory or OS resource is sufficient.
Failed to change CPU frequency settings. Check the BIOS settings and the OS settings. Check if the cluster is started. Check if the setting is configured so that CPU frequency control is used.	Check the BIOS settings and the OS settings. Check if the cluster service is started. Check if the setting is configured so that CPU frequency control is used.
Failed to acquire CPU frequency settings. Check the BIOS settings and the OS settings. Check if the cluster is started. Check if the setting is configured so that CPU frequency control is used.	Check the BIOS settings and the OS settings. Check if the cluster service is started. Check if the setting is configured so that CPU frequency control is used.
Internal error. Check if memory or OS resources are sufficient.	Check if the memory or OS resource is sufficient.

2.16 Processing inter-cluster linkage (clptrnreq command)

The clptrnreq command requests a server to execute a process.

Command line

clptrnreq -t request_code -h IP [-r resource_name] [-s script_file] [-w timeout]

Description

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

Option

-t request_code

Specifies the request code of the process to be executed. The following request codes can be specified: GRP_FAILOVER Group failover EXEC_SCRIPT Execute script

-h IP

Specifies the server to issue the request to execute the process with IP address. You can specify more than one server by separating by commas.

When you specify group failover for request code, specify the IP addresses of all the servers in the cluster.

-r resource_name

Specifies the resource name which belongs to the target group for the request for process when GRP_FAILOVER is specified for request code.

If GRP_FAILOVER is specified, -r cannot be omitted.

-s script_file

Specifies the file name of the script to be executed (e.g. batch file or executable file) when EXEC_SCRIPT is specified for request code. The script needs to be created in the worktrnreq folder in the folder where EXPRESSCLUSTER is installed in each server specified with -h.

If EXEC_SCRIPT is specified, -s cannot be omitted.

-w timeout

Specifies the timeout value of the command by the second. If the -w option is not specified, the command waits 30 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 root privilege.

Examples

Example 1: When performing a failover on the group having the exec1 resource of another cluster

```
# clptrnreq -t GRP_FAILOVER -h 10.0.0.1,10.0.0.2 -r exec1 Command succeeded.
```

Example 2: When executing the scrpit1.bat script by the server with IP address 10.0.0.1

```
# clptrnreq -t EXEC_SCRIPT -h 10.0.0.1 -s script1.sh Command Succeeded.
```

Error Messages

Message	Cause/solution
Log in as root.	Log in as root user.
Invalid option.	The command line option is invalid. Specify the cor-
	rect option.
Could not connect to the data transfer server. Check if the server has started up.	Check if the server has started up.
Could not connect to all data transfer servers. Check if the servers have started up.	Check if all the servers in the cluster have started up.
Command timeout.	The cause may be heavy load on OS and so on.
	Check this.

Table 2.28 - continued from previous page

Message	Cause/solution
All servers are busy. Check if this command is	This command may be run already. Check it.
already run.	
GRP_FAILOVER %s : Group that specified re-	Failover process is not performed because the group
source(%s) belongs to is offline.	to which the specified resource belongs is not started.
EXEC_SCRIPT %s : Specified script(%s) does not exist.	The specified script does not exist. Check it.
EXEC_SCRIPT %s : Specified script(%s) is not executable.	The specified script could not be executed. Check that execution is permitted.
%s %s : This server is not permitted to execute clptrnreq.	The server that executed the command does not have permission. Check that the server is registered to the connection restriction IP list of Cluster WebUI.
GRP_FAILOVER %s : Specified resource(%s) does not exist.	The specified resource does not exist. Check it.
%s %s : %s failed in execute.	request failed in execute.
Internal error. Check if memory or OS resource is sufficient.	Check if the memory or OS resource is sufficient.

2.17 Requesting processing to cluster servers (clprexec command)

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

Command line

```
clprexec --failover [group_name] -h IP [-r resource_name] [-w timeout] [-p port_number] [-o logfile_path] clprexec --script script_file -h IP [-p port_number] [-w timeout] [-o logfile_path] clprexec --notice [mrw_name] -h IP [-k category[.keyword]] [-p port_number] [-w timeout] [-o logfile_path] clprexec --clear [mrw_name] -h IP [-k category[.keyword]] [-p port_number] [-w timeout] [-o logfile_path]
```

Description

This command is an expansion of the existing clptrnreq command and has additional functions such as issuing a processing request (error message) from the external monitor to the EXPRESSCLUSTER server.

Option

--failover

Requests group failover. Specify a group name for group_name.

When not specifying the group name, specify the name of a resource that belongs to the group by using the -r 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 category and keyword 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 category and keyword 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.

-r resource_name

Specify the name of a resource that belongs to the target group for the processing request when the -- failover option is specified.

-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 dot 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

In logfile_path, specify the path of the file to which to output the detailed log of this command.

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 MAXINT 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 X 3.0 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 "Details of other settings" in the EXPRESSCLUSTER X SingleServerSafe Configuration Guide.

Examples

Example 1: This example shows how to issue a request to fail over the group failover1 to EXPRESSCLUSTER server 1 (10.0.0.1):

```
# clprexec --failover failover1 -h 10.0.0.1 -p 29002
```

Example 2: This example shows how to issue a request to fail over the group to which the group resource (exec1) belongs to EXPRESSCLUSTER server 1 (10.0.0.1):

```
# clprexec --failover -r exec1 -h 10.0.0.1
```

Example 3: This example shows how to issue a request to execute the script (script1.sh) on EXPRESSCLUSTER server 1 (10.0.0.1):

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

Example 4: 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 receive monitor resource name:

```
# clprexec --notice mrwl -h 10.0.0.1 -w 30 -p /tmp/clprexec/ lprexec.
```

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

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

→clprexec/clprexec.log
```

Example 5: This example shows how to issue a request to change the monitor status of mrw1 to EXPRESS-CLUSTER server 1 (10.0.0.1):

- * mrw1 set, category: earthquake, keyword: scale3
 - This example shows how to specify a message receive 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 receive monitor resource:

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

Error Messages

Message	Cause/solution
rexec_ver:%s	-
%s %s : %s succeeded.	-
%s %s : %s will be executed from now.	Check the processing result on the server that re-
	ceived the request.
%s %s : Group Failover did not execute be-	-
cause Group(%s) is offline.	
%s %s : Group migration did not execute be-	-
cause Group(%s) is offline.	
Invalid option.	Check the command argument.
Could not connect to the data transfer servers.	Check whether the specified IP address is correct and
Check if the servers have started up.	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	This command might already be running. Check
already run.	whether this is so.
%s %s : This server is not permitted to execute	Check whether the IP address of the server that ex-
clprexec.	ecutes the command is registered in the list of client
	IP addresses that are not allowed to connect to the
	Cluster WebUI.

Table 2.29 – continued from previous page

Message	Cause/solution
%s %s : Specified monitor resource(%s) does	Check the command argument.
not exist.	
%s failed in execute.	Check the status of the EXPRESSCLUSTER server
	that received the request.

2.18 Changing BMC information (clpbmccnf command)

Changes the information on BMC user name and password.

Command line

clpbmccnf [-u username] [-p password]

Description

Changes the user name/password for the LAN access of the baseboard management controller (BMC) used by EXPRESSCLUSTER.

Option

-u username

Specifies the user name for BMC LAN access used by EXPRESSCLUSTER. A user name with root privilege needs to be specified.

The -u option can be omitted. Upon omission, when the -p option is specified, the value currently set for user name is used. If there is no option specified, it is configured interactively.

-p password

Specifies the password for BMC LAN access used by EXPRESSCLUSTER. The -p option can be omitted. Upon omission, when the -u option is specified, the value currently set for password is used. If there is no option specified, it is configured interactively.

Return Value

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

Notes

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

Execute this command when the server is in normal status.

BMC information update by this command is enabled when the server is started/resumed next time.

This command does not change the BMC settings. Use a tool attached with the server or other tools in conformity with IPMI standard to check or change the BMC account settings.

Examples

When you changed the IPMI account password of the BMC in server1 to mypassword, execute the following on server1:

clpbmccnf -p mypassword

Alternatively, enter the data interactively as follows:

```
# clpbmccnf
New user name: <- If there is no change, press Return to skip
New password: **********
Retype new password: ***********
Cluster configuration updated successfully.</pre>
```

Error Messages

Message	Cause/solution
Log in as root	Log in as root user.
Invalid option.	The command line option is invalid. Specify the cor-
	rect option.
Failed to download the cluster configuration	Downloading the cluster configuration data has been
data. Check if the cluster status is normal.	failed. Check if the cluster status is normal.
Failed to upload the cluster configuration data.	Uploading the cluster configuration data has been
Check if the cluster status is normal.	failed. Check if the cluster status is normal.
Invalid configuration file. Create valid cluster	The cluster configuration data is invalid. Check the
configuration data.	cluster configuration data by using the Cluster We-
	bUI.
Internal error. Check if memory or OS resources	Check if the memory or OS resource is sufficient.
are sufficient.	

2.19 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.
91	Changing the work directory as failed.

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
********
Command succeeded. (code:0)
```

The reboot count is initialized in the following examples.

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

```
# clpregctrl -c -t rc -r haltcount
Command succeeded.(code:0)
#
```

Example2: When initializing the count of reboots caused by monitor resource error:

```
# clpregctrl -c -t rm -r haltcount
Command succeeded.(code:0)
#
```

Notes

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

Error Messages

Message	Causes/Solution
Command succeeded.	The command ran successfully.

Table 2.31 – continued from	m previous page
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Message	Causes/Solution
Log in as root.	You are not authorized to run this command. Log on
	as root user.
The command is already executed. Check the	The command is already running. Check the running
execution state by using the "ps" command or	status by using a command such as ps command.
some other command.	
Invalid option.	Specify a valid option.
Internal error. Check if memory or OS resources	Check to see if the memory or OS resource is suffi-
are sufficient.	cient.

2.20 Estimating the amount of resource usage (clpprer command)

Estimates the future value from the transition of the resource use amount data listed in the input file, and then outputs the estimate data to a file. Also, the result of threshold judgment on the estimate data can be confirmed.

Command line

clpprer -i inputfile -o outputfile [-p number] [-t number [-l]]

Description

Estimates the future value from the tendency of the given resource use amount data.

Option

- -i inputfile
 - Specifies the resource data for which a future value is to be obtained.
- -o outputfile

Specifies the name of the file to which the estimate result is output.

-p number

Specifies the number of estimate data items.

If omitted, 30 items of estimate data are obtained.

-t number

Specifies the threshold to be compared with the estimate data.

-1

Valid only when the threshold is set with the -t option. Judges the status to be an error when the data value is less than the threshold.

Return Value

0	Normal end without threshold judgment
1	Error occurrence
2	As a result of threshold judgment, the input data is determined to have exceeded the threshold.
3	As a result of threshold judgment, the estimate data is determined to have exceeded the threshold.
4	As a result of threshold judgment, the data is determined to have not exceeded the threshold.
5	If the number of data items to be analyzed is less than the recommended number of data items to be
	analyzed (120), the input data is determined to have exceeded the threshold as a result of threshold
	judgment.
6	If the number of data items to be analyzed is less than the recommended number of data items to be
	analyzed (120), the estimate data is determined to have exceeded the threshold as a result of threshold
	judgment.
7	If the number of data items to be analyzed is less than the recommended number of data items to be ana-
	lyzed (120), the data is determined to have not exceeded the threshold as a result of threshold judgment.

Notes

This command can be used only when the license for the system monitor resource (System Resource Agent) is registered. (If the license is registered, you do not have to set up the system monitor resource when configuring a cluster.)

The maximum number of input data items of the resource data file specified with the -i option is 500. A certain number of input data items are required to estimate the amount of resource usage. However, if the number of input data items is large, it takes a considerable amount of time to perform the analysis. So, it is recommended that the number of input data items be restricted to about 120. Moreover, the maximum number of output data items that can be specified in option -p is 500.

If the time data for the input file is not arranged in ascending order, the estimate will not be appropriate. In the input file, therefore, set the time data arranged in ascending order.

Input file

The input file format is explained below. Prepare an input file which contains the resource usage data for which to obtain an estimate, in the following format.

The input file format is CSV. One piece of data is coded in the form of *date and time*, *numeric value*. Moreover, the data and time format is *YYYY/MM/DD hh:mm:ss*.

File example

201	2/06/14	10:00:00,10.0
201	2/06/14	10:01:00,10.5
201	2/06/14	10:02:00,11.0

Examples

The estimation of the future value is explained using a simple example.

When an error is detected in the input data:

If the latest value of the input data exceeds the threshold, an error is assumed and a return value of 2 is returned. If the number of input data items is less than the recommended value (=120), a return value of 5 is returned.

When an error is detected in the estimate data:

If the estimate data exceeds the threshold, an error is assumed and a return value of 3 is returned. If the number of input data items is less than the recommended value (=120), a return value of 6 is returned.

When no threshold error is detected:

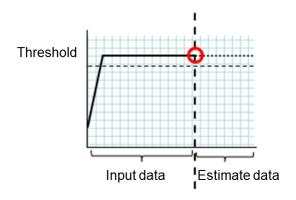


Fig. 2.1: Error detection in the input data

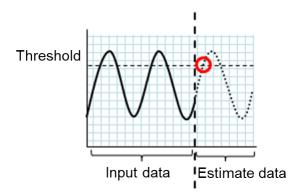


Fig. 2.2: Error detection in the estimate data

If neither the input data nor the estimate data exceeds the threshold, a return value of 4 is returned. If the number of input data items is less than the recommended value (=120), a return value of 7 is returned.

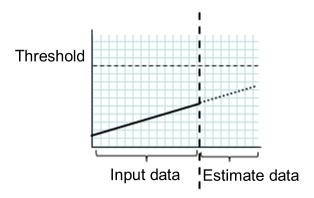


Fig. 2.3: When no threshold error is detected

When the -l option is used:

If the -l option is used, an error is assumed when the data is less than the threshold.

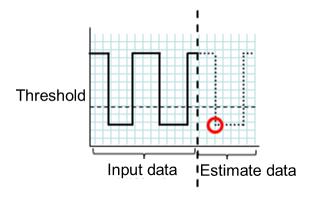


Fig. 2.4: Use of the -1 option

Examples

Prepare a file which contains data in the specified format, and then execute the clpprer command. The estimate result can be confirmed as the output file.

Input file: test.csv

```
2012/06/14 10:00:00,10.0
2012/06/14 10:01:00,10.5
2012/06/14 10:02:00,11.0
```

```
# clpprer -i test.csv -o result.csv
```

Output result: result.csv



(continues on next page)

(continued from previous page)

```
2012/06/14 10:07:00,13.5
```

Also, by specifying a threshold as an option, you can confirm the threshold judgment result for the estimate at the command prompt.

```
# clpprer -i test.csv -o result.csv -t 12.5
```

Execution result

```
Detect over threshold. datetime = 2012/06/14 10:06:00, data = 13.00, threshold = _{\sim} 12.5
```

Error Messages

Message	Causes/Solution
Normal state.	As a result of threshold judgment, no data exceeding
	the threshold is detected.
Detect over threshold. datetime = %s, data =	As a result of threshold judgment, data exceeding the
%s, threshold = %s	threshold is detected.
Detect under threshold. datetime = %s, data =	As a result of threshold judgment with the -l option,
%s, threshold = %s	data less than the threshold is detected.
License is nothing.	The license for the valid System Resource Agent is
	not registered. Check to see the license.
Inputfile is none.	The specified input data file does not exist.
Inputfile length error.	The path for the specified input data file is too long.
	Specify no more than 1023 bytes.
Output directory does not exist.	The directory specified with the output file does not
	exist. Check whether the specified directory exists.
Outputfile length error.	The path for the specified output file is too long.
	Specify no more than 1023 bytes.
Invalid number of -p.	The value specified in the -p option is invalid.
Invalid number of -t.	The value specified in the -t option is invalid.
Not analyze under threshold(not set -t).	The -t option is not specified. When using the -I op-
	tion, also specify the -t option.
File open error [%s]. errno = %s	The file failed to open. The amount of memory or
	OS resources may be insufficient. Check for any in-
	sufficiency.
Inputfile is invalid. cols = %s	The number of input data items is not correct. Set
	the number of input data items to 2 or more.
Inputfile is invalid. rows = %s	The input data format is incorrect. One line needs to
	be divided into two rows.
Invalid date format. [expected YYYY/MM/DD	The date of the input data is not of the correct format.
HH:MM:SS]	Check to see the data.
Invalid date format. Not sorted in ascending or-	Input data is not arranged in ascending order of date
der.	and time. Check the data.
File read error.	An invalid value is set in the input data. Check the
	data.
Too large number of data [%s]. Max number of	The number of input data items exceeds the maxi-
data is %s.	mum value (500). Reduce the number of data items.

Table 2.32 - continued from previous page

Message	Causes/Solution
Input number of data is smaller than recommendable number.	The number of input data items is less than the recommended number of data items to be analyzed (120). * Data is analyzed even if the recommended number of data items to be analyzed is small.
Internal error.	An internal error has occurred.

2.21 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 pm, rc, rm, and nm.

-t cess>
process

pm Checks the health of pm.

rc Checks the health of rc.

rm Checks the health of rm.

nm Checks the health of nm.

-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 the root user.

Error Messages

Message	Cause/Solution
Log in as root.	You are not authorized to run this command. Log on
	as the root user.
Initialization error. Check if memory or OS re-	Check to see if the memory or OS resource is suffi-
sources are sufficient.	cient.
Invalid option.	Specify a valid option.
The function of process stall monitor is disabled.	The process stall monitoring function has not been
	enabled.

Table 2.33 - continued from previous page

Message	Cause/Solution
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. Check the
	running status by using a command such as ps com-
	mand.
Internal error. Check if memory or OS resources	Check to see if the memory or OS resource is suffi-
are sufficient.	cient.

2.22 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
```

Example of Execution

(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
```

Example of Execution (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 a root user.

Error Messages

Message	Cause/Solution
Log in as root.	Run this command as the root 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.

2.23 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
```

Example of Execution (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

Run this command as a root user.

EXPRESSCLUSTER X SingleServerSafe 4.2 for Linux Operation Guide, Release 2

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

Error Messages

Message	Cause/Solution
Log in as root.	Log in as a root user.
Invalid option.	Specify a valid option.
Could not opened the configuration file. Check if the	The specified path does not exist. Specify a valid
configuration file exists on the specified path.	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	The amount of memory or OS resources may be in-
sufficient.	sufficient. Check for any insufficiency.

CHAPTER

THREE

NOTES AND RESTRICTIONS

This chapter provides information on known problems and how to troubleshoot the problems.

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 Messages displayed when the driver is loaded

When the clpka driver is loaded, the following message may be displayed in the console or syslog. This symptom is not an error.

```
kernel: clpka: no version for "struct_module" found: kernel tainted.
kernel: clpka: module license 'unspecified' taints kernel.
```

3.1.2 ipmi messages

If IPMI is used as the user-mode monitor resource, the following many kernel module warning logs are output to syslog:

```
modprobe: modprobe: Can't locate module char-major-10-173
```

To avoid this log output, rename /dev/ipmikcs.

3.1.3 Restrictions during recovery operation

When you have configured a group resource (EXEC resource, VM resource) as a recovery target in the settings of error detection by a monitor resource, and the monitor resource detects an error, do not perform the following commands or the controls of servers or groups by the Cluster WebUI while recovery (reactivation -> final action) is ongoing.

- · Stopping or suspending a server
- 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.

3.1.4 Executable files and script files not described in the Command Reference

The installation directory contains executable files and script files that are not described in "2. *EXPRESSCLUSTER X SingleServerSafe command reference*" 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.

3.1.5 Messages displayed when logs are collected

When you collect logs, you may find the following message on the console. This does not mean failure. The logs are collected normally.

```
hd#: bad special flag: 0x03
ip_tables: (C) 2000-2002 Netfilter core team
```

(The name of the IDE device that exists on the server is stored in hd#.)

```
kernel: Warning: /proc/ide/hd?/settings interface is obsolete, and will be
→removed soon!
```

3.1.6 Service start/stop scripts

For an init.d environment, the service start and stop scripts output an error in the following cases. An error is not output for a systemd environment.

• Immediately after the EXPRESSCLUSTER Server is installed (for SUSE Linux)

When the OS is shut down, the service stop scripts below output an error. This error is output because services are not running and does not indicate an actual problem.

- clusterpro_alertsync
- clusterpro_webmgr
- clusterpro
- clusterpro_api
- clusterpro_ib
- clusterpro_trn
- clusterpro_evt
- OS shutdown after manually stopping a service (for SUSE Linux)

After a service is stopped using the clpcl command or the Cluster WebUI, the stop script for the service that stopped when the OS shut down outputs an error. This error is output because the service stopped and does not indicate an actual problem.

- clusterpro

In the following case, the service stop scripts are executed in the incorrect order:

OS shutdown after all services are disabled by executing chkconfig --del name

After the EXPRESSCLUSTER services are disabled, they are stopped in the incorrect order when the OS shuts down. This occurs because the EXPRESSCLUSTER services disabled when the OS shut down are not stopped. If the server is shut down by the Cluster WebUI or by an EXPRESSCLUSTER command such as the clpstdn command, the EXPRESSCLUSTER services stopping in the incorrect order does not cause a problem.

3.1.7 Checking the service status when systemd is used

For a systemd environment, the status of services output by the systemctl command may not reflect the actual status of the cluster.

Use the clostat command and Cluster WebUI to check the cluster status.

3.1.8 Script files used in EXEC resources

The script files used in the EXEC resources are stored in the following directory on the server:

/installation path/scripts/group-name/EXEC resource-name/

If the following changes are made in configuration change, the pre-change script files are not deleted from the server.

- When the EXEC resource is deleted or renamed
- When a group that belongs to the EXEC resource is deleted or renamed

Old EXEC resource scripts can be deleted when unnecessary.

3.1.9 Monitor resources that monitor active resources

When monitor resources that monitoring timing is "Active" have suspended and resumed, the following restriction apply:

- In case stopping target resource after suspending monitor resource, monitor resource becomes suspended. As a result, monitoring restart cannot be executed.
- In case stopping or starting target resource after suspending monitor resource, monitoring by monitor resource starts when target resource starts.

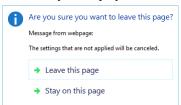
3.1.10 Notes on the Cluster WebUI

- 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.
- Closing the Web browser (by clicking Exit from the menu), 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.

3.1.11 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.
- For the SELinux setting, set permissive or disabled.
 The enforcing setting may disable the communication needed by EXPRESSCLUSTER.
- If the date or time of the OS has been changed while System Resource Agent is running, resource monitoring may operate incorrectly as described below since the timing of analysis which is normally done at 10 minute intervals may differ the first time after the date or time is changed. If either of the following occur, suspend and resume 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 64 disks that can be monitored by the disk resource monitoring function of System monitor resources.

3.1.12 JVM monitor resources

- When restarting the monitoring-target Java VM, suspend or shut down the cluster before restarting the Java VM.
- To change a setting, the cluster must be suspended.
- JVM monitor resources do not support a delay warning for monitor resources.
- When changing the language (for example, from Japanese to Chinese) set to the Cluster WebUI (Cluster Properties Info tab Language) after JVM monitor resource registration, delete the registered JVM monitor resource, and then register it again.

3.1.13 HTTP monitor resource

- The HTTP monitor resource uses any of the following OpenSSL shared library symbolic links:
 - libssl.so
 - libssl.so.1.1 (OpenSSL 1.1.1 shared libraly)
 - libssl.so.10 (OpenSSL 1.0 shared libraly)
 - libssl.so.6 (OpenSSL 0.9 shared libraly)

The above symbolic links may not exist depending on the OS distribution or version, or the package installation status.

If the above symbolic links cannot be found, the following error occurs in the HTTP monitor resource.

```
Detected an error in monitoring<Module Resource Name>. (1 :Can not found_ →library. (libpath=libssl.so, errno=2))
```

For this reason, if the above error occurred, be sure to check whether the above symbolic links exit in /usr/lib or /usr/lib64.

If the above symbolic links do not exit, create the symbolic link libssl.so, as in the command example below.

Command example:

```
cd /usr/lib64 # Move to /usr/lib64.
ln -s libssl.so.1.0.1e libssl.so # Create a symbolic link.
```

FOUR

ERROR MESSAGES

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

This chapter covers:

- 4.1. Messages reported by syslog, alert, mail, and SNMP trap
- 4.2. Driver syslog messages
- 4.3. Detailed information on activating and deactivating group resources
- 4.4. Details about monitor resource errors
- 4.5. JVM monitor resource log output messages

4.1 Messages reported by syslog, alert, mail, and SNMP trap

If the "o" mark is shown in the alert column or the syslog column, the message on that row is output to the Alert logs of Cluster WebUI or syslog of OS, respectively.

If the "o" mark is shown in the mail column, the message on that row is reported when E-mail report function of Alert Service is enabled.

If the "o" mark is shown in the SNMP Trap column, the message on that row is reported when SNMP trap sending function of Alert Service is enabled.

For mail reporting and SNMP Trap transmission, refer to the Reference Guide.

The table below lists EXPRESSCLUSTER X SingleServerSafe messages.

Note: Alert mail reporting messages are output to syslog with facility = daemon(0x00000018), identity = "express-cls". *Event Type* in the table below is equivalent to a syslog log level.

[1]alert, [2]syslog, [3]Mail Report, [4]SNMP Trap

Module	e Event	Event	Message	Explanation	Solution	[1]	[2]	[3]	[4]
Type	Type	ID							
SSS	Error	8	Failed to update	The configura-	Check the configu-	0	О		
			config file.	tion file could	ration data.				
				not be updated.					

Table 4.1 – continued from previous page

Module Type	Event Type	Event		Explanation	Solution	[1]	[2	[3] [4
sss	Info	10	Updated config file successfully.	The configuration file has been updated.	-		0		
SSS	Error	12	Information in config file is invalid.	The content of the configuration file is invalid.	Check the configuration data.		O		
SSS	Error	14	Failed to obtain server name.	The server name could not be acquired.	Memory or OS resources may not be sufficient. Check them.		0		
SSS	Info	16	Server name is updated.	The server name has been updated.	-	0	0		
pm	Info	1	Starting the cluster dae-mon	The EXPRESS- CLUSTER daemon has been success- fully started.	-	0	O		
pm	Info	2	Shutting down the cluster daemon	The EXPRESS- CLUSTER dae- mon is now be- ing shut down.	-	0	0		
pm	Info	3	Shutdown monitoring is started	Shutdown mon- itoring has been started.	-	0	0		
pm	Error	10	The cluster daemon has already started.	The EXPRESS-CLUSTER daemon has already been already started.	Check the EX- PRESSCLUSTER daemon status.	0	O		
pm	Error	11	A critical error occurred in the cluster daemon.	A critical error occurred in the EXPRESS-CLUSTER daemon.	The user executing the operation does not have root privileges, or there is an insufficiency of memory or OS resources. Check them.	0	0	0	0
pm	Error	12	A problem was detected in XML library.	A problem was detected in the XML library.	Memory or OS resources may not be sufficient. Check them.	0	0		
pm	Error	13	A problem was detected in cluster configuration data.	A problem was detected in configuration data.	Check the configuration data by using the Cluster WebUI.	0	0	0	0

Table 4.1 – continued from previous page

Module	Event	Event		Explanation	Solution	[1]	[2	[3	[4
Туре	Type	ID			23.00.01	'	, <u>, – </u>	ر ک	''
pm	Error	14	No cluster configuration data is found.	The configuration data does not exist.	Create a server configuration by using the Cluster WebUI and upload it to the server.	О	0		
pm	Error	15	No information about this server is found in the cluster configu- ration data.	This server was not found in the configuration data.	Check the configuration data by using the Cluster WebUI.	0	0		
pm	Error	20	Process %1 was terminated abnormally.	Process %1 terminated abnormally.	Memory or OS resources may not be sufficient. Check them.	O	O	O	O
pm	Error	21	The system will be stopped be- cause the clus- ter daemon pro- cess terminated abnormally.	The system will now stop because the EXPRESS-CLUSTER daemon process terminated abnormally.	Deactivation of group resources may be failed. Troubleshoot by following the group resource message.	0	O		
pm	Error	22	An error oc- curred when initializing pro- cess %1.(return code:%2)	An initialization error occurred in process %1.	The event process might not be running.	0	O	0	0
pm	Info	23	The system will be stopped.	The system will now stop.	-	0	0		
pm	Info	24	The cluster daemon will be stopped.	Stops the cluster daemon.	-	0	0		
pm	Info	25	The system will be rebooted.	System will be rebooted.	-	0	0		
pm	Info	26	Process %1 will be restarted.	Process %1 will now be restart.	-	0	0		
pm	Info	30	Received a request to stop the system from %1.	A request to stop the system was received from %1.	-	О	O		
pm	Info	31	Received a request to stop the cluster daemon from %1.	A request to stop the EXPRESS-CLUSTER daemon was received from %1.	-	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]	[4
pm	Info	32	Received a request to reboot the system from %1.	A request to re- boot the system was received from %1.	-	O	O		
pm	Info	33	Received a request to restart the cluster daemon from %1.	A request to reboot the EXPRESS-CLUSTER daemon was received from %1.	-	0	0		
pm	Info	34	Received a request to resume the cluster daemon from %1.	A request to resume the server was received from %1.	-	O	O		
pm	Info	35	Received a request to suspend the cluster daemon from %1.	A request to suspend the server was received from %1.	-	O	O		
pm	Info	36	Received a request to panic by sysrq from %1.	A request for a panic by sysrq was received from %1.	-	O	O		
pm	Info	37	Received a request to reset by keepalive driver from %1.	A request for a reset by the keepalive driver was received from %1.	-	O	O		
pm	Info	38	Received a request to panic by keepalive driver from %1.	A request for a panic by the keepalive driver was received from %1.	-	O	O		
pm	Info	39	Received a request to reset by BMC from %1.	A request for a reset by BMC was received from %1.	-	O	0		
pm	Info	40	Received a request to power down by BMC from %1.	A request for a power down by BMC was received from %1.	-	O	0		
pm	Info	41	Received a request to power cycle by BMC from %1.	A request for a power cycle by BMC was received from %1.	-	O	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]] [4
pm	Info	42	Received a request to send NMI by BMC from %1.	A request for NMI transmis- sion by BMC was received from %1.	-	O	O		
pm	Error	66	An attempt to panic by sysrq from %1 failed.	An attempt to perform a panic by sysrq from %1 failed.	Check whether the system is set up so that it can be used by sysrq.	O	O		
pm	Error	67	An attempt to reset by keepalive driver from %1 failed.	An attempt to perform a reset by the keepalive driver from %1 failed.	Check whether the keepalive driver can be used in this environment.	O	O		
pm	Error	68	An attempt to panic by keepalive driver from %1 failed.	An attempt to perform a panic by the keepalive driver from %1 failed.	Check whether the keepalive driver can be used in this environment.	O	O		
pm	Error	69	An attempt to reset by BMC from %1 failed.	An attempt to perform a reset by BMC from %1 failed.	Check whether the ipmitool command can be used.	0	O		
pm	Error	70	An attempt to power down by BMC from %1 failed.	An attempt to perform a power down by BMC from %1 failed.	Check whether the ipmitool command can be used.	0	O		
pm	Error	71	An attempt to power cycle by BMC from %1 failed.	An attempt to perform a power cycle by BMC from %1 failed.	Check whether the ipmitool command can be used.	0	0		
pm	Error	72	An attempt to send NMI by BMC from %1 failed.	An attempt to send NMI by BMC from %1 failed.	Check whether the ipmitool command can be used.	0	O		
nm	Info	1	Server %1 has started.	Server %1 has started.	-	0	0		
nm	Info	2	Server %1 has been stopped.	Server %1 has stopped.	-	0	0	0	0
nm	Info	3	Resource %1 of server %2 has started.	Resource %1 of server %2 has started.	-	0	0		
nm	Info	4	Resource %1 of server %2 has stopped.	Resource %1 of server %2 has stopped.	-	0	0		
nm	Info	5	Waiting for all servers to start.	Waiting for the server to start	-	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event	Message	Explanation	Solution	[1]	[2	[3]	[4
nm	Info	6	All servers have started.	The server has started.	-	0	0		
nm	Info	7	Timeout occurred during the wait for startup of all servers.	Waiting for all servers to start resulted in a timeout.	-	O	0		
nm	Error	8	Timeout occurred during the wait for startup of all servers. (Cannot communicate with some servers.)	Waiting for all servers to start resulted in a timeout. (Internal com- munication with some servers is not possible.)	Check that there is no error in the net- work adapter and the network is cor- rectly connected.	O	0		
nm	Info	9	Waiting for startup of all servers has been canceled.	Waiting for all servers to start has been can- celed.	-	0	0		
nm	Error	10	Status of resource %1 of server %2 is unknown.	Resource %1 of Server %2 is un- known.	Check whether the cable or network settings related to resource %1 are correct.	O	O	O	O
nm	Error	20	Process %1 was terminated abnormally.	Process %1 terminated abnormally.	Memory or OS resources may not be sufficient. Check them.	0	O	O	O
nm	Info	21	The system will be stopped.	The system will now stop.	-	0	0		
nm	Info	22	The cluster daemon will be stopped.	Stops the cluster daemon.	-	0	0		
nm	Info	23	The system will be rebooted.	System will be rebooted.	-	0	0		
nm	Info	24	Process %1 will be restarted.	%1 process will be restarted.	-	0	O		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2]	[3]] [4
nm	Error	30	Network partition was detected. Shut down the server %1 to protect data.	Network partition was detected. Shut down server %1 to protect data.	All heartbeat resources cannot be used. Check that there is no error in the network adapter and the network is correctly connected. If DISKHB is being used, check the shared disk status. If COMHB is being used, check whether the COM cable is correctly connected.	0	O		
nm	Error	31	An error occurred while confirming the network partition. Shut down the server %1.	An error occurred in confirming the network partition. Shut down the server %1.	Check whether an error occurred in the network partition resolution resource.	0	0		
nm	Error	32	Shut down the server %1. (reason:%2)	Shut down server %1. (Reason: %2)	No heartbeat can be used. Check that there is no error in the network adapter and the network is correctly connected. If DISKHB is being used, check the shared disk status. If COMHB is being used, check whether the COM cable is correctly connected.	0	0		
nm	Error	33	Cluster service will be stopped. (reason:%1)	Stop the service. (reason: %1)	Check the cause following the message.	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2] [3] [4
nm	Error	34	The combination of the network partition resources is invalid. (server name:%1)	The combination of the network partition resources is invalid. (erver name: %1)	Check the configuration data.	0	0		
nm	Error	35	Failed to start the resource %1. Server name:%2	Starting resource %1 failed. (Server name: %2)	Check whether an error occurred in the network partition resolution resource.	O	O		
nm	Info	36	The network partition %1 of the server %2 has been recovered to the normal status.	Network partition %1 of server %2 has been recovered to the normal status.	-	0	0		
nm	Error	37	The network partition %1 of the server %2 has an error.	The network partition %1 of the server %2 has an error.	Check whether an error occurred in the network partition resolution resource.	0	O		
nm	Error	38	The resource %1 of the server %2 is unknown.	The resource %1 of the server %2 is unknown.	Check the configuration data.	О	0		
nm	Info	39	The server %1 cancelled the pending failover.	The server %1 cancelled the pending failover.	-	0	O		
nm	Error	80	Cannot communicate with server %1.	Internal communication with server %1 is not possible.	Check that there is no error in the net- work adapter and the network is cor- rectly connected.	О	0		
nm	Info	81	Recovered from internal communica- tion error with server %1.	Internal communication with server %1 has recovered from the abnormal status.	-	0	0		
rc	Info	10	Activating group %1 has started.	The activation processing of group %1 has started.	-	O	O		
rc	Info	11	Activating group %1 has completed.	The activation processing of group %1 has terminated.	-	О	O		
rc	Error	12	Activating group %1 has failed.	The activation processing of group %1 has failed.	Troubleshoot according to the group resource message.	О	O		

Table 4.1 – continued from previous page

Module Type	Event Type	Event		Explanation	Solution	[1]	[2]	[3]	[4
rc	Info	15	Waiting for group %1 to start has started.	Waiting for the group to start has started.	-	0	0		
rc	Info	16	Waiting for group %1 to start has been completed.	Waiting for the group to start has been normally completed.	-	O	O		
rc	Error	17	Group start was cancelled because waiting for group %1 to start was timed out.	Waiting for the 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		
rc	Warni	ngl 8	Waiting for group %1 to start has timed out. However, group start continues.	Waiting for the group to start has timed out. However, group start continues.	-	0	0		
rc	Info	20	Stopping group %1 has started.	The stop processing of group %1 has started.	-	0	0		
rc	Info	21	Stopping group %1 has completed.	The stop processing of group %1 has terminated.	-	0	O		
rc	Error	22	Stopping group %1 has failed.	The stop processing of group %1 has failed.	Troubleshoot according to the group resource message.	0	0		
rc	Warni	ng3	Server %1 is not in a condition to start group %2.	Server %1 cannot currently start group %2.	The server where a complete exclusion group is already active cannot start the group. Stop the complete exclusion group, and then reexecute the operation.	O	O		
rc	Info	25	Waiting for group %1 to stop has started.	Waiting for the group to stop has started.	-	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2] [3]	[4
rc	Info	26	Waiting for group %1 to stop has been completed.	Waiting for the depen- dent group to stop has been normally completed.	-	0	0		
rc	Error	27	Group stop has been cancelled because waiting for group %1 to stop has timed out.	Waiting for the 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		
rc	Warni	n g 8	Waiting for group %1 to stop has timed out. However, group stop continues.	Stop waiting has timed out. However, group stop continues.	-	0	O		
rc	Info	30	Activating %1 resource has started.	The activation processing of resource %1 has started.	-		0		
rc	Info	31	Activating %1 resource has completed.	The activation processing of resource %1 has terminated.	-		0		
rc	Error	32	Activating %1 resource has failed.(%2 : %3)	The activation processing of resource %1 has failed.	See "Detailed information on activating and deactivating group resources".	0	0	0	O
rc	Info	40	Stopping %1 resource has started.	The stop processing of resource %1 has started.	-		O		
rc	Info	41	Stopping %1 resource has completed.	The stop processing of resource %1 has terminated.	-		O		
rc	Error	42	Stopping %1 resource has failed.(%2 : %3)	The stop processing of resource %1 has failed.	See "Detailed information on activating and deactivating group resources".	O	0	0	0

Table 4.1 – continued from previous page

Module	Event			Explanation	Solution	[1]	[2]	[3]	[4
Туре	Type	ID .	3.6	TEN .					
rc	Info	50	Moving group %1 has started.	The movement processing of group %1 has started.	-	0	0		
rc	Info	51	Moving group %1 has completed.	The movement processing of group %1 has terminated.	-	0	O		
rc	Error	52	Moving group %1 has failed.	The movement processing of group %1 has failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	55	Migrating group %1 has started.	The migration processing of group %1 has started.	-	0	0		
rc	Info	56	Migrating group %1 has completed.	The migration processing of group %1 has terminated.	-	0	0		
rc	Error	57	Migrating group %1 has failed.	The migration processing of group %1 has failed.	Troubleshoot according to the group resource message.	0	O		
rc	Warni	58 ng	Server %1 is not in a condition to migrate group %2	The server %1 is not ready for the migration of the group %2.	Check the status of the migration destination server. No server name is output for %1 if there is no migration destination server.	o	O		
rc	Info	60	Failover group %1 has started.	The failover processing of group %1 has started.	-	0	O		
rc	Info	61	Failover group %1 has completed.	The failover processing of group %1 has terminated.	-	0	O		
rc	Error	62	Failover group %1 has failed.	The failover processing of group %1 has failed.	Troubleshoot according to the group resource message.	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]] [4
rc	Warni	63 ng	Server %1 is not in a condition to move group %2.	Server %1 cannot currently move group %2.	Check the status of the movement destination server. If the movement destination server does not exist, the server name is not output to %1.	o	o		
rc	Info	64	Server %1 has been set as the destination for the group %2 (reason: %3).	Server %1 has been set as the destination for the group %2 (reason: %3).	-	0	0		
rc	Error	65	There is no appropriate destination for the group %1 (reason: %2).	There is no appropriate destination for the group %1 (reason: %2).	Check if any monitor resources detects an error on the other servers.	0	0		
rc	Warni	n ∲ 6	Server %1 is not in a condition to start group %2 (reason: %3).	Server %1 is not in a condition to start group %2 (reason: %3).	Check if any monitor resource detects an error on the server.	0	O		
rc	Info	67	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		
rc	Info	68	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		
rc	Warni	n g 69	Can not failover 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.	0	0		
rc	Info	70	Restarting group %1 has started.	The restart processing of group %1 has started.	-	0	0		

Table 4.1 – continued from previous page

Module	Event	Event		tinued from previo	Solution	[1]	1 [2] [3	1 [4
Туре	Туре	ID	0	·	Colution	[['.	ı (<u></u>	ı [S	, [÷
rc	Info	71	Restarting group %1 has completed.	The restart processing of group %1 has terminated.	-	0	O		
rc	Error	72	Restarting group %1 has failed.	The restart processing of group %1 has failed.	Troubleshoot according to the group resource message.	O	0		
rc	Info	74	Failback group %1 has started.	Failback group %1 has started.	-	0	0		
rc	Info	75	Failback group %1 has completed.	Failback group %1 has been completed.	-	0	0		
rc	Error	76	Failback group %1 has failed.	Failback group %1 has failed.	Take appropriate action according to the group resource message.	O	0		
rc	Info	80	Restarting resource %1 has started.	The restart processing of resource %1 has started.	-	0	О		
rc	Info	81	Restarting resource %1 has completed.	The restart processing of resource %1 has terminated.	-	0	О		
rc	Error	82	Restarting resource %1 has failed.	The restart processing of resource %1 has failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	83	Starting a single resource %1.	Resource %1 is being started alone.	-	0	0		
rc	Info	84	A single resource %1 has been started.	Starting resource %1 alone has been completed.	-	0	O		
rc	Error	85	Failed to start a single resource %1.	Starting resource %1 alone has failed.	Troubleshoot according to the group resource message.	0	0		
rc	Warni	n g 6	Server %1 is not in a condition to start a single re- source %2.	Server %1 cannot currently start resource %2 alone.	Check the server and group status.	0	0		
rc	Info	87	Stopping a single resource %1.	Resource %1 is being stopped alone.	-	0	0		
rc	Info	88	A single resource %1 has been stopped.	Stopping resource %1 alone has been completed.	-	0	O		

Table 4.1 – continued from previous page

Module Type	Event Type	Event	Message	Explanation	Solution	[1]	[2]	[3]	[4
rc	Error	89	Failed to stop a single resource %1.	Stopping resource %1 alone has failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	90	All the servers in the cluster were shut down.	All the servers have been shut down.	-	О	0		
rc	Info	91	The server was shut down.	All the servers have been shut down.	-	О	О		
rc	Warni	ng 00	Restart count exceeded the maximum value %1. Final action of resource %2 will not be executed.	The restart count exceeded the maximum value %1. The final action of resource %2 will not be taken.	Troubleshoot according to the group resource message.	O	0		
rc	Info	121	The CPU frequency has been set to high.	The CPU frequency has been set to the highest.	-	0	0		
rc	Info	122	The CPU frequency has been set to low.	The CPU frequency has been set to the lowest.	-	0	0		
rc	Info	124	CPU frequency setting has been switched to au- tomatic control by cluster.	The CPU frequency setting has been switched to automatic control by the server.	-	0	0		
rc	Error	140	CPU frequency control cannot be used.	CPU frequency control cannot be used.	Check BIOS settings and kernel settings.	0	0		
rc	Error	141	Failed to set the CPU frequency to high.	The CPU frequency could not be set to the highest.	Check BIOS settings and kernel settings. Check whether the EXPRESSCLUSTER daemon is running. Check whether the CPU frequency control function is set to "use".	O	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]] [4
rc	Error	142	Failed to set the CPU frequency to low.	The CPU frequency could not be set to the lowest.	Same as above	0	О		
rc	Error	144	Failed to switch the CPU frequency setting to automatic control by cluster.	The CPU frequency could not be set to automatic control by the server.	Check whether the EXPRESSCLUSTER daemon is running. Check whether the CPU frequency control function is set to "use".	0	О		
rc	Info	160	Script before final action upon activation failure in resource %1 started.	The script executed before the final action when an activation failure occurs for resource %1 has been started.	-	0	0		
rc	Info	161	Script before final action upon activation failure in resource %1 completed.	The script executed before the final action when an activation failure occurs for resource %1 has been completed.	-	0	O		
rc	Info	162	Script before final action upon deactivation failure in resource %1 started.	The script before the final action at deactivation failure in resource (%1) has started.	-	0	0		
rc	Info	163	Script before final action upon deactivation failure in resource %1 completed.	The script before the final action at deactivation failure in resource (%1) has been completed.	-	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2] [3] [4
re	Error	180	Script before final action upon activation failure in resource %1 failed.	The script executed before the final action when an activation failure occurs for resource %1 has failed.	Check the cause of the script failure and take measures.	0	O		
rc	Error	181	Script before final action upon deactivation failure in resource %1 failed.	The script executed before the final action when a deactivation failure occurs for resource %1 has failed.	Same as above	0	O		
rc	Info	200	Resource(%1) will be reactivated since activating resource(%2) failed.	Resource %2 will now be reactivated because the activation processing of resource %2 failed.	Troubleshoot according to the group resource message.	O	O		
rc	Info	201	Group(%1) will be moved to server(%2) since activating resource(%3) failed.	Group %1 will now be moved to server %2 be- cause resource %3 could not be activated.	Troubleshoot according to the group resource message.	0	0		
rc	Info	202	Group(%1) will be stopped since activating resource(%2) failed.	Group %1 will now be stopped because resource %2 could not be activated.	Troubleshoot according to the group resource message.	0	0		
rc	Info	203	Cluster daemon will be stopped since activating resource(%1) failed.	The EXPRESS-CLUSTER server daemon will now be stopped because resource %1 could not be activated.	Troubleshoot according to the group resource message.	0	O		
rc	Info	204	System will be halted since activating re- source(%1) failed.	The OS will now be shut down because resource %1 could not be activated.	Troubleshoot according to the group resource message.	0	O		

Table 4.1 – continued from previous page

Module	Event	Event		Explanation	Solution	[1]	[2	[3	[4
Туре	Туре	ID		-					
rc	Info	205	System will be rebooted since activating resource(%1) failed.	The OS will now be rebooted because resource %1 could not be activated.	Troubleshoot according to the group resource message.	0	0		
rc	Info	206	Activating group(%1) will be continued since failover process failed.	The activation processing of group %1 will now be continued because the failover processing failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	220	Resource(%1) will be stopping again since stopping resource(%2) failed.	Resource %1 deactivation will now be retried because the deactivation processing of resource %2 failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	222	Group(%1) will be stopped since stopping resource(%2) failed.	Group %1 will now be stopped because resource %2 could not be deactivated.	Troubleshoot according to the group resource message.	0	0		
rc	Info	223	Cluster daemon will be stopped since stopping resource(%1) failed.	The server daemon will now be stopped because resource %1 could not be deactivated.	Troubleshoot according to the group resource message.	0	0		
rc	Info	224	System will be halted since stopping re- source(%1) failed.	The OS will now be shut down because resource %1 could not be deactivated.	Troubleshoot according to the group resource message.	0	0		
rc	Info	225	System will be rebooted since stopping resource(%1) failed.	The OS will now be rebooted because resource %1 could not be deactivated.	Troubleshoot according to the group resource message.	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2]	[3]	[4
re	Info	240	System panic by sysrq is requested since activating re- source(%1) failed.	A system panic by sysrq has been requested because re- source %1 activation failed.	Troubleshoot according to the group resource message.	O	0		
rc	Info	241	System reset by keepalive driver is requested since activating resource(%1) failed.	A system reset by the keepalive driver has been requested be- cause resource %1 activation failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	242	System panic by keepalive driver is requested since activating resource(%1) failed.	A system panic by the keepalive driver has been requested be- cause resource %1 activation failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	243	System reset by BMC is requested since activating re- source(%1) failed.	A system reset by BMC has been requested because re- source %1 activation failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	244	System power down by BMC is requested since activating resource(%1) failed.	A system power down by BMC has been requested because resource %1 activation failed.	Troubleshoot according to the group resource message.	O	0		
rc	Info	245	System power cycle by BMC is requested since activating resource(%1) failed.	A system power cycle by BMC has been requested because resource %1 activation failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	246	NMI send by BMC is re- quested since activating re- source(%1) failed.	NMI transmission by BMC has been requested because resource %1 activation failed.	Troubleshoot according to the group resource message.	0	0		

Table 4.1 – continued from previous page

N.A		_		tinued from previo				1 50	F 4
Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]	[4]
rc	Error	260	An attempt to panic system by sysrq due to failure of resource(%1) activation failed.	An attempt to panic the system was made by sysrq because resource %1 could not be activated, but this attempt failed.	Check whether the system is set up so that it can be used by sysrq.	0	0		
гс	Error	261	An attempt to reset system by keepalive driver due to failure of resource(%1) activation failed.	An attempt to reset the system was made by the keepalive driver because resource %1 could not be activated, but this attempt failed.	Check whether the keepalive driver can be used in this environment.	O	O		
rc	Error	262	An attempt to panic system by keepalive driver due to failure of resource(%1) activation failed.	An attempt to panic the system was made by the keepalive driver because resource %1 could not be activated, but this attempt failed.	Check whether the keepalive driver can be used in this environment.	0	0		
rc	Error	263	An attempt to reset system by BMC due to failure of resource(%1) activation failed.	An attempt to reset the system was made by BMC because resource %1 could not be activated, but this attempt failed.	Check whether the ipmitool command can be used.	O	O		
rc	Error	264	An attempt to power down system by BMC due to failure of resource(%1) activation failed.	An attempt to power down the system was made by BMC because resource %1 could not be activated, but this attempt failed.	Check whether the ipmitool command can be used.	o	o		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]] [3] [4
rc	Error	265	An attempt to power cycle system by BMC due to failure of resource(%1) activation failed.	An attempt to power cycle the system was made by BMC because resource %1 could not be activated, but this attempt failed.	Check whether the ipmitool command can be used.	O	O		
rc	Error	266	An attempt to send NMI by BMC due to failure of resource(%1) activation failed.	An attempt to send NMI was made by BMC because resource %1 could not be activated, but this attempt failed.	Check whether the ipmitool command can be used.	O	O		
rc	Info	280	System panic by sysrq is requested since deactivating resource(%1) failed.	A system panic by sysrq has been requested because re- source %1 deactivation failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	281	System reset by keepalive driver is re- quested since deactivating resource(%1) failed.	A system reset by the keepalive driver has been requested be- cause resource %1 deactivation failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	282	System panic by keepalive driver is re- quested since deactivating resource(%1) failed.	A system panic by the keepalive driver has been requested be- cause resource %1 deactivation failed.	Troubleshoot according to the group resource message.	0	0		
гс	Info	283	System reset by BMC is requested since deactivating resource(%1) failed.	A system reset by BMC has been requested because re- source %1 deactivation failed.	Troubleshoot according to the group resource message.	0	0		

Table 4.1 – continued from previous page

Module	Event	Event	Message	Explanation	Solution	[1]	1 [3]	[3]	<u>ΓΛ</u>
Type	Type	ID	Message	LAPIANALION	Solution	L'.	I [<u>←</u> .	ו ניטן	ן ניי
rc	Info	284	System power down by BMC is requested since deactivating resource(%1) failed.	A system power down by BMC has been re- quested because resource %1 deactivation failed.	Troubleshoot according to the group resource message.	0	O		
rc	Info	285	System power cycle by BMC is requested since deactivating resource(%1) failed.	A system power cycle by BMC has been requested because resource %1 deactivation failed.	Troubleshoot according to the group resource message.	0	0		
rc	Info	286	Sending NMI by BMC is requested since deactivating resource(%1) failed.	NMI transmission by BMC has been requested because resource %1 deactivation failed.	Troubleshoot according to the group resource message.	0	0		
rc	Error	300	An attempt to panic system by sysrq due to failure of resource(%1) deactivation failed.	An attempt to panic the system was made by sysrq because resource %1 could not be deactivated, but this attempt failed.	Check whether the system is set up so that it can be used by sysrq.	0	O		
rc	Error	301	An attempt to reset system by keepalive driver due to failure of resource(%1) deactivation failed.	An attempt to reset the system was made by the keepalive driver because resource %1 could not be deactivated, but this attempt failed.	Check whether the keepalive driver can be used in this environment.	O	O		
rc	Error	302	An attempt to panic system by keepalive driver due to failure of resource(%1) deactivation failed.	An attempt to panic the system was made by the keepalive driver because resource %1 could not be deactivated, but this attempt failed.	Check whether the keepalive driver can be used in this environment.	0	o		

Table 4.1 – continued from previous page

Module	Event	Event		Explanation	Solution	[1]	[2]	[3	[4
Type	Туре	ID		•					
rc	Error	303	An attempt to reset system by BMC due to failure of resource(%1) deactivation failed.	An attempt to reset the system was made by BMC because resource %1 could not be deactivated, but this attempt failed.	Check whether the ipmitool command can be used.	0	0		
rc	Error	304	An attempt to power down system by BMC due to failure of resource(%1) deactivation failed.	An attempt to power down the system was made by BMC because resource %1 could not be deactivated, but this attempt failed.	Check whether the ipmitool command can be used.	0	0		
rc	Error	305	An attempt to power cycle system by BMC due to failure of resource(%1) deactivation failed.	An attempt to power cycle the system was made by BMC because resource %1 could not be deactivated, but this attempt failed.	Check whether the ipmitool command can be used.	0	0		
rc	Error	306	An attempt to send NMI by BMC due to failure of resource(%1) deactivation failed.	An attempt to send NMI was made by BMC because resource %1 could not be deactivated, but this attempt failed.	Check whether the ipmitool command can be used.	O	0		
rc	Error	340	Group start has been cancelled because waiting for group %1 to start has failed.	An error has occurred while waiting for the group to start.	Check the following possible causes: memory shortage or OS resource insufficiency.	O	0		
rc	Info	400	System power down by BMC is requested. (destination server: %1)	A system power down by BMC has been re- quested. (Target server: %1)	-	O	O		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1 <u>]</u>	[2]	[3]] [4
rc	Info	401	System power cycle by BMC is requested. (destination server: %1)	A system power cycle by BMC has been requested. (Target server: %1)	-	0	O		
rc	Info	402	System reset by BMC is requested. (des- tination server : %1)	A system reset by BMC has been requested. (Target server: %1)	-	0	0		
rc	Info	403	Sending NMI by BMC is requested. (des- tination server: %1)	NMI sending by BMC has been requested. (Tar- get server: %1)	-	0	O		
rc	Info	410	Forced stop of virtual machine is requested. (destination server: %s)	Forced stop of a virtual machine is requested. (Target server: %1)	-	0	O		
rc	Info	411	Script for forced stop has started.	Script for forced-stop has started.	-	0	0		
rc	Info	412	Script for forced stop has completed.	Script for forced-stop has completed.	-	0	0		
rc	Error	420	An attempt to power down system by BMC failed. (destination server: %1)	An attempt to power down the system by BMC has failed. (Tar- get server: %1)	Check whether the ipmitool command can be used.	0	0		
rc	Error	421	An attempt to power cycle system by BMC failed. (destination server: %1)	An attempt to power cycle the system by BMC has failed. (Tar- get server: %1)	Check whether the ipmitool command can be used.	0	0		
rc	Error	422	An attempt to reset system by BMC failed. (destination server: %1)	An attempt to reset the system by BMC has failed. (Target server: %1)	Check whether the ipmitool command can be used.	0	O		
rc	Error	423	An attempt to send NMI by BMC failed. (destination server: %1)	An attempt to send NMI by BMC has failed. (Target server: %1)	Check whether the ipmitool command can be used.	0	O		

Table 4.1 – continued from previous page

Module		Event	Message	Explanation	Solution	[1]	[2] [3	[4]
Туре	71	ID							
rc	Error	430	An attempt to force stop virtual machine failed. (desti- nation server : %s)	Forced stop of a virtual machine is requested, but this request failed. (Target server: %1)	Check whether VMware vSphere CLI can be used.	0	0		
rc	Error	431	Script for forced stop has failed. (%1)	Script for forced-stop has stopped.	Check the cause of the script failure and take measures.	О	0		
rc	Error	432	Script for forced stop has timed out.	Timeout on the- script for forced stop	Check the cause of the script timeout and take measures.	0	0		
rc	Warning	4 41	Waiting for group %1 to stop has failed. However, group stop continues.	An error has occurred while waiting for the group to stop.	Check the following possible causes: memory shortage or OS resource insufficiency.	O	0		
rc	Warning		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.	-	O	O		
rc	Warning		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.	-	O	O		
rc	Warning	5 10	Cluster action is disabled.	The cluster action is disabled.	-	0	0		
rc	Warning	§ 11	Ignored the automatic start of groups because automatic group startup is disabled.	Being disabled, automatic group startup is ignored.	-	0	0		

Table 4.1 – continued from previous page

Module	Event Ev		Explanation	Solution	[1	[2	[3] [4
rc	Type ID Warning 12	recovery action in resource acti- vation because recovery action caused by group resource acti- vation error is	Being disabled, the resource re- covery action is ignored when a group resource activation error occurs.	-	0	0		
rc	Warning 13	disabled. Ignored the recovery action in resource deactivation because recovery action caused by group resource deactivation error is disabled.	Being disabled, the resource re- covery action is ignored when a group resource deactivation er- ror occurs.	-	0	0		
rc	Warning 14		The cluster action is disabled.	-	0	0		
rc	Warning 1:	Cluster action is set enabled.	The cluster action is enabled.	-	0	0		
rm	Info 1	Monitoring %1 has started.	%1 monitoring has started.	-	0	0		
rm	Info 2	Monitoring %1 has stopped.	%1 monitoring has stopped.	-	О	0		
rm	Info 3	%1 is not monitored by this server.	%1 is not monitored by this server.	-	О	0		
rm	4 Warning	Warn monitoring %1. (%2: %3)	There is a warning about %1 monitoring.	See "Details about monitor resource errors". If a monitor resource is preparing for monitoring, the following message may be set in (). No action is required for this message. (100: not ready for monitoring.)	o	0		

Table 4.1 – continued from previous page

Module	Event Event	Message	Explanation	Solution	[1]	[2	[3	[4]
Type	Type ID							
rm	Warning	The maximum number of monitor resources has been exceeded. (registered resource is %1)	The maximum number of monitor resources has been exceeded.	Check the configuration data by using the Cluster WebUI.	0	0		
rm	Warning	Monitor configuration of %1 is invalid. (%2: %3)	The monitor configuration of %1 is invalid.	Check the configuration data by using the Cluster WebUI.	0	O		
rm	Error 7	Failed to start monitoring %1.	%1 monitoring could not be started.	Memory or OS resources may not be sufficient. Check them.	0	0	0	0
rm	Error 8	Failed to stop monitoring %1.	%1 monitoring could not be stopped.	Memory or OS resources may not be sufficient. Check them.	0	0		

Table 4.1 – continued from previous page

Module	Event			Explanation	Solution	[1	[2	[3	[4
Туре	Туре	ID							
rm	Error	9	Detected an error in monitoring %1. (%2: %3)	An error was detected during %1 monitoring.	See "Details about monitor resource errors". If a monitoring timeout is detected, the following message is specified in the parentheses: (99: Monitor was timeout.) If Dummy Failure is enabled, the following message is set in (). No action is needed in the latter case. (201: Monitor failed for failure verification.) If no response is returned from a monitor resource for a certain period of time, the following message is set in (). (202: couldn't receive reply from monitor resource in time.)	o	0	0	0
rm	Info	10	%1 is not monitored.	%1 is not being monitored.	-	0	О		
rm / mm	Info	12	Recovery target %1 has stopped because an error was detected in monitoring %2.	Recovery target %1 has been stopped because an error was detected during %2 monitoring.	-	0	0		
rm / mm	Info	13	Recovery target %1 has restarted because an error was detected in monitoring %2.	Recovery target %1 has been restarted because an error was detected during %2 monitoring.	-	0	0		

Table 4.1 – continued from previous page

Module	Event	Event		Explanation	Solution	[1]	[2]	[3]	[4
Туре	Туре	ID				"			
rm / mm	Info	14	Recovery target %1 failed over because an error was detected in monitoring %2.	Recovery target %1 has been failed over because an error was detected during %2 monitoring.	-	0	O		
rm / mm	Info	15	Stopping the cluster has been required because an error was detected in monitoring %1.	Stopping the server has been requested because an error was detected during %1 monitoring.	-	0	0		
rm / mm	Info	16	Stopping the system has been required because an error was detected in monitoring %1.	Stopping the system has been requested because an error was detected during %1 monitoring.	-	0	O		
rm / mm	Info	17	Rebooting the system has been required because an error was detected in monitoring %1.	Rebooting the system has been requested because an error was detected during %1 monitoring.	-	0	0		
rm / mm	Error	18	Attempted to stop the recovery target %1 due to the error detected in monitoring %2, but failed.	An attempt to stop recovery target %1 was made because an error was detected during %2 monitoring, but this attempt failed.	Check the status of resource %1.	0	0		
rm / mm	Error	19	Attempted to restart the recovery target %1 due to the error detected in monitoring %2, but failed.	An attempt to restart recovery target %1 was made because an error was detected during %2 monitoring, but this attempt failed.	Check the status of resource %1.	O	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2	[3]	[4
rm / mm	Error	20	Attempted to fail over %1 due to the error detected in monitoring %2, but failed.	An attempt to fail over recovery target %1 was made because an error was detected during %2 monitoring, but this attempt failed.	Check the status of resource %1.	O	O		
rm / mm	Error	21	Attempted to stop the cluster due to the error detected in monitoring %1, but failed.	An attempt to stop the server was made because an error was detected during %1 monitoring, but this attempt failed.	Memory or OS resources may not be sufficient. Check them.	O	O		
rm / mm	Error	22	Attempted to stop the system due to the error detected in monitoring %1, but failed.	An attempt to stop the system was made because an error was detected during %1 monitoring, but this attempt failed.	Memory or OS resources may not be sufficient. Check them.	0	0		
rm / mm	Error	23	Attempted to reboot the system due to the error detected in monitoring %1, but failed.	An attempt to reboot the system was made because an error was detected during %1 monitoring, but this attempt failed.	Memory or OS resources may not be sufficient. Check them.	O	0		
rm	Error	24	The group of %1 resource is unknown.	The group of resource %1 is unknown.	The configuration data may be incorrect. Check them.	0	0		
rm / mm	Warni	_	Recovery will not be executed since the recovery target %1 is not active.	Recovery will not be performed because recovery target %1 is inactive.	-	0	0		
rm / mm	Info	26	%1 status changed from error to normal.	%1 monitoring has changed from "error" to "normal".	-	O	O		

Table 4.1 – continued from previous page

Module	Event	Event		Explanation	Solution	[1]	[2]	[3	[4]
Type	Туре	ID	-	·		-			
rm / mm	Info	27	%1 status changed from error or normal to unknown.	%1 monitoring has changed from "error" or "normal" to "unknown".	Memory or OS resources may not be sufficient. Check them.	O	0		
rm	Error	28	Initialization error of monitor process. (%1: %2)	A monitor process initialization error occurred.	Memory or OS resources may not be sufficient. Check them.	0	O		
rm	Info	29	Monitoring %1 was suspended.	%1 monitoring has been suspended.	-	О	О		
rm	Info	30	Monitoring %1 was resumed.	%1 monitoring has been resumed.	-	О	0		
rm	Info	31	All monitors were suspended.	All monitors were suspended.	-	О	0		
rm	Info	32	All monitors were resumed.	All monitors were resumed.	-	0	0		
rm / mm	Info	35	System panic by sysrq has been required because an error was detected in monitoring %1.	A system panic by sysrq has been requested because an error was detected during %1 monitoring.	-	0	0		
rm / mm	Error	36	Attempted to panic system by sysrq due to the error detected in monitoring %1, but failed.	An attempt to panic the system was made by sysrq because an error was detected during %1 monitoring, but this attempt failed.	Check whether the system is set up so that it can be used by sysrq.	O	O		
rm / mm	Info	37	System reset by keepalive driver has been required be- cause an error was detected in monitoring %1.	A system reset by the keepalive driver has been requested be- cause an error was detected during %1 monitoring.	-	O	0		

Table 4.1 – continued from previous page

Module	Event	Event		Explanation	Solution	[11	<u> </u>	1 [3	1 [4]
Type	Type	ID	Message	Explanation	Solution	['.	[2	၂၂၁] [4
rm / mm	Error	38	Attempted to reset system by keepalive driver due to the error detected in monitoring %1, but failed.	An attempt to reset the system was made by the keepalive driver because an error was detected during %1 monitoring, but this attempt failed.	Check whether the keepalive driver can be used in this environment.	0	0		
rm / mm	Info	39	System panic by keepalive driver has been required be- cause an error was detected in monitoring %1.	A system panic by the keepalive driver has been requested be- cause an error was detected during %1 monitoring.	-	0	O		
rm / mm	Error	40	Attempted to panic system by keepalive driver due to the error detected in monitoring %1, but failed.	An attempt to panic the system was made by the keepalive driver because an error was detected during %1 monitoring, but this attempt failed.	Check whether the keepalive driver can be used in this environment.	0	O		
rm / mm	Info	41	System reset by BMC has been required because an error was detected in monitoring %1.	A system reset by BMC has been requested because an error was detected during %1 monitoring.	-	0	O		
rm / mm	Error	42	Attempted to reset system by BMC due to the error detected in monitoring %1, but failed.	An attempt to reset the system was made by BMC because an error was detected during %1 monitoring, but this attempt failed.	Check whether the ipmitool command can be used.	O	O		
rm / mm	Info	43	System power down by BMC has been required because an error was detected in monitoring %1.	A system power down by BMC has been re- quested because an error was detected during %1 monitoring.	-	0	О		

Table 4.1 – continued from previous page

Module		Event		Explanation	Solution	[1]	[2	[3]	[4
Туре	Type	ID							
rm / mm	Error	44	Attempted to power down system by BMC due to the error detected in monitoring %1, but failed.	An attempt to power down the system was made by BMC because an error was detected during %1 monitoring, but this attempt failed.	Check whether the ipmitool command can be used.	O	O		
rm / mm	Info	45	System power cycle by BMC has been required because an error was detected in monitoring %1.	A system power cycle by BMC has been requested because an error was detected during %1 monitoring.	-	O	0		
rm / mm	Error	46	Attempted to power cycle system by BMC due to the error detected in monitoring %1, but failed.	An attempt to power cycle the system was made by BMC because an error was detected during %1 monitoring, but this attempt failed.	Check whether the ipmitool command can be used.	0	0		
rm / mm	Info	47	NMI send by BMC has been required be- cause an error was detected in monitoring %1.	NMI of the system by BMC has been required because an error was detected in monitoring %1.	-	O	0		
rm / mm	Error	48	Attempted to send NMI by BMC due to the error detected in monitoring %1, but failed.	Attempted to NMI of the system by BMC due to the error detected in monitoring %1, but failed.	Check if the ipmitool command can be used.	O	0		
rm	Info	49	%1 status changed from warning to normal.	%1 monitoring has changed from "warning" to "normal".	-	0	O		
rm	Error	57	Stopping the cluster is required since license (%1) is invalid.	Stopping the server has been requested because the license is invalid.	Register a valid license.	O	0	0	0

Table 4.1 – continued from previous page

Module		Event		Explanation	Solution	[1]	[2	[3	[4
Type rm	Type Error	58	Stopping the cluster due to invalid license (%1) failed.	The server could not be stopped because the license is invalid.	Register a valid license.	0	0		
rm	Warnin	71 ng	Detected a monitor delay in monitoring %1. (time-out=%2*%3 actual-time=%4 delay warning rate=%5)	A monitoring delay was detected during %1 monitoring. The current timeout value is %2 (seconds) x %3 (ticks per second). The actual measurement value at delay detection has reached %4 (ticks), exceeding the delay warning rate %5 (%).	Check the load on the server where monitoring delay was detected and reduce the load. If monitoring timeouts are detected, the monitoring timeout time must be extended.	0	0		
rm	Warnin	ก <i>ฐ</i> ี 2	%1 could not Monitoring.	%1 could not perform monitoring.	Check the following possible causes: memory shortage or OS resource insufficiency.	O	0		
rm / mm	Info	81	Script before %1 upon failure in monitor resource %2 started.	The script before %1 in monitor resource %2 has been started.	-	O	0		
rm / mm	Info	82	Script before %1 upon failure in monitor resource %2 completed.	The script before %1 in monitor resource %2 has been complete.	-	O	0		
rm / mm	Error	83	Script before %1 upon failure in monitor resource %2 failed.	The script before %1 in monitor resource %2 has failed.	Check the cause of the script failure and take measures.	O	0		

Table 4.1 – continued from previous page

Module	Event Event		Explanation	Solution	[1]	[2	[3]	[4
Type	Type ID	Wicosage	LAPIGNATION	Colution	L'.	L ^ .	ו ני	ו ניי
rm	Warning 00	Restart count	The final action	-	0	0		
1111	, uning so	exceeded the	of %2 has not			Ü		
		maximum of	been executed					
		%1. Final	because restart					
		action of moni-	count exceeded					
		toring %2 will	the maximum					
		not be executed.	value %1.					
rm	Warning 20	The virtual ma-	The virtual ma-	-	0	0		
		chine (%1) has	chine managed					
		been migrated	by the resource					
		by an external	%1 has been mi-					
		operation.	grated by an ex-					
		•	ternal operation.					
rm	Warning 21	The virtual ma-	The virtual	-	0	О		
		chine (%1) has	machine man-					
		been started by	aged by the					
		an external op-	resource %1					
		eration.	has been started					
			by an external					
			operation.					
rm	Info 130	Collecting	Collecting	-	О	o		
		detailed infor-	detailed infor-					
		mation was	mation was					
		triggered by	triggered by					
		error detection	error detection					
		when moni-	when moni-					
		toring monitor	toring monitor					
		resource \$1.	resource \$1.					
			The timeout					
			time is %2					
			seconds.					
rm	Info 131	The collection	The collection	-	o	o		
		of detailed	of detailed					
		information	information					
		triggered by	triggered by					
		error detection	error detection					
		when moni-	when moni-					
		toring monitor	toring monitor					
		resource \$1 has	resource \$1 has					
	W 122	completed.	completed.					
rm	Warning 32	The collection	The collection	-	0	O		
		of detailed	of detailed					
		information	information by					
		triggered by	triggered by					
		error detection	error detection					
		when moni-	when moni-					
		toring monitor	toring monitor					
		resource \$1 has	resource \$1 has					
		failed.	failed.					

Table 4.1 – continued from previous page

Module Type	Event Type	Event	Message	Explanation	Solution	[1]	[2] [3	[4
rm	Info	140	Process %1 has	Process %1 has	-	О	0		
			started.	started.					
rm	Warni	ngl 41	Process %1 has	Process %1 has	-	0	О		
			restarted.	restarted.					
rm	Warni	ngl 42	Process %1	Process %1	-	o	o		
			does not exist.	does not exist.					
rm	Error	143	Process %1	Process %1	Check the follow-	0	O		
			was restarted	was restarted	ing possible causes:				
			%2 times, but	%2 times, but	memory shortage or				
			terminated	terminated	OS resource insuffi-				
	F	150	abnormally.	abnormally.	ciency.				
rm	Error	150	The cluster is	The cluster is	Check the follow-	0	О		
			stopped since	stopped since	ing possible causes:				
			process %1	process %1	memory shortage or OS resource insuffi-				
			was terminated abnormally.	was terminated abnormally.	ciency.				
rm	Error	151	The server is	The server is	Check the follow-	0			
rm	Entor	131	shut down since	shut down since	ing possible causes:	0	0		
			process %1	process %1	memory shortage or				
			was terminated	was terminated	OS resource insuffi-				
			abnormally.	abnormally.	ciency.				
rm	Error	152	The server is	The server is	Check the follow-	0	0		
	21101	102	restarted since	restarted since	ing possible causes:		Ü		
			process %1	process %1	memory shortage or				
			was terminated	was terminated	OS resource insuffi-				
			abnormally.	abnormally.	ciency.				
rm	Error	160	Monitor re-	Monitor re-	Register a valid li-	О	О		
			source %1	source %1	cense.				
			cannot be con-	cannot be con-					
			trolled since	trolled since					
			the license is	the license is					
			invalid.	invalid.					
rm	Info	170	Recovery script	Recovery script	-	О	o		
			has been exe-	has been exe-					
			cuted since an	cuted since an					
			error was de-	error was de-					
			tected in moni-	tected in moni-					
			toring %1.	toring %1.					
rm	Error	171	An attempt was	An attempt was	Check the cause of	0	O		
			made to execute	made to execute	the recovery script				
			the recovery	the recovery	failure and take ap-				
			script due to a	script due to a	propriate action.				
			%1 monitoring	%1 monitoring failure, but					
			failure, but failed.	failure, but failed.					
rm	Info	180			_				
rm	Info	100	Dummy Failure of monitor re-	Dummy Failure of monitor re-	_	0	0		
			source %1 is en-	source %1 is en-					
			abled.	abled.					
			autcu.	avicu.					

Table 4.1 – continued from previous page

Module Type	Event Type	Event	Message	Explanation	Solution	[1]	[2] [3] [4
rm	Info	181	Dummy Failure of monitor resource %1 is	Dummy Failure of monitor resource %1 is	-	0	0		
rm	Info	182	disabled. Dummy Failure of all monitor	disabled. Dummy Failure of all monitor	-	О	0		
rm	Info	183	will be enabled. Dummy Failure of all monitor	will be enabled. Dummy Failure of all monitor	-	О	0		
rm	Warni	ngl 84	will be disabled. An attempt was made to enable Dummy Failure of monitor resource %1, but failed.	will be disabled. An attempt was made to enable Dummy Failure of monitor resource %1, but failed.	Check whether monitor resource %1 corresponds to Dummy Failure.	0	0		
rm	Warni	ngl 85	An attempt was made to disable Dummy Failure of monitor resource %1, but failed.	An attempt was made to disable Dummy Failure of monitor resource %1, but failed.	Check whether monitor resource %1 corresponds to Dummy Failure.	0	O		
rm	Info	190	Recovery action caused by monitor resource error is disabled.	Recovery action caused by mon- itor resource er- ror is disabled.	-	0	O		
rm	Info	191	Recovery action caused by monitor resource error is enabled.	Recovery action caused by monitor resource error is enabled.	-	O	O		
rm	Warni	ng 92	Ignored the recovery action in monitoring %1 because recovery action caused by monitor resource error is disabled.	Ignored the recovery action in monitoring %1 because recovery action caused by monitor resource error is disabled.	-	0	O		
rm	Warni	ng! 93		Recovery action at timeout occurrence was disabled, so the recovery action of monitor %1 was not executed.		0	O		

Table 4.1 – continued from previous page

Module	1	Event		Explanation	Solution	[1]	[2	[3] [4
Type rm	Type Warni	ID n⊉00	Since there is	Suppression of	-	0	О		
			no other nor- mally running server, the final action(%1) for	final action for error detection.					
			the error detec- tion of monitor resource %2 was suppressed.						
mm	Info	901	Message mon- itor has been started.	Message monitor (external linkage monitor module) has been started.	-	0	O		
mm	Error	902	Failed to initialize message monitor. (%1: %2)	Message mon- itor (external linkage mon- itor module) could not be initialized.	Check the following possible causes: memory shortage or OS resource insufficiency.	0	0		
mm	Warni	n g 03	An error of %1 type and %2 device has been detected. (%3)	External error %3 of category %1 and keyword %2 has been received.	-	0	O		
mm	Error	905	An error has been detected in monitoring %1. (%2)	An error was detected in monitor resource %1 monitoring.	Take appropriate action according to the %2 message.	0	O	0	0
mm	Error	906	Message monitor was terminated abnormally.	Message monitor (external linkage monitor module) has been terminated abnormally.	Check the following possible causes: memory shortage or OS resource insufficiency.	0	0		
mm	Error	907	Failed to execute action. (%1)	Executing recovery action has failed.	Check the following possible causes: memory shortage or OS resource insufficiency.	0	O		
mm	Info	908	The system will be stopped.	The OS will be shut down.	-	0	0		
mm	Info	909	The cluster daemon will be stopped.	The cluster will be stopped.	-	0	0		
mm	Info	910	The system will be rebooted.	The OS will be rebooted.	-	0	0		

Table 4.1 – continued from previous page

Module	1	Event		Explanation	Solution	[1]	[2	[3] [4
Type	Туре	ID							
mm	Info	911	Message monitor will be restarted.	Message mon- itor (external linkage monitor module) will be	-	0	O		
				restarted.					
mm	Info	912	Received a message by SNMP Trap from external. (%1: %2)	Received a message by SNMP Trap from external.	-	0	0		
trnsv	Error	1	There was a notification from external (IP=%1), but it was denied.	The notification from %1 was received, but it was denied.	-	0	0		
trnsv	Info	10	There was a notification (%1) from external (IP=%2).	The notification (%1) from %2 was received.	-	0	0		
trnsv	Info	20	Recovery action (%1) of monitoring %2 has been executed because a notification arrived from external.	Recovery action when an error is detected (%1) of the monitor resource %2 has been executed due to an notification from external arrived.	-	0	0		
trnsv	Info	21	Recovery action (%1) of monitoring %2 has been completed.	Execution of recovery action when an error is detected (%1) of the monitor resource %2 succeeded.	-	0	0		
trnsv	Error	22	Attempted to recovery action (%1) of monitoring %2, but it failed.	Executed recovery action when an error is detected (%1) of the monitor resource %2, but it failed.	Check if recovery action when an error is detected is executable.	0	0		
trnsv	Info	30	Action (%1) has been completed.	Execution of action (%1) succeeded.	-	0	0		
trnsv	Error	31	Attempted to execute action (%1), but it failed.	Executed action (%1), but it failed.	Check if recovery action when an error is detected is executable.	0	O		

Table 4.1 – continued from previous page

Module	Event	Event		Explanation	Solution	[1]	[2	[3]	[4
Type trnsv	Type Info	40	Script before action of monitoring %1 has been executed.	Script before action when an error is detected of the monitor resource (%1) has been executed.	-	O			
trnsv	Info	41	Script before action of monitoring %1 has been completed.	Execution of script before action when an error is detected of the monitor resource (%1) succeeded.	-	O			
trnsv	Error	42	Attempted to execute script before action of monitoring %1, but it failed.	Executed script before action when an error is detected of the monitor resource (%1), but it failed.	Check if script be- fore action when an error is detected is executable.	0			
lanhb	Warni	71 ng	Heartbeats sent from HB resource %1 of server %2 are de-layed.(timeout=% actual-time=%5 delay warning rate=%6)	A delay occurred in the heartbeat from HB resource %1 of server 3*724 The current timeout value is "%3 (seconds) x %4 (ticks per second)". The actual measurement value when the delay occurred became %5 (ticks), exceeding the delay warning percentage %6 (%).	Check the load on server %2 and reduce the load. If an HB timeout occurs, the HB timeout time must be extended.	0	0		

Table 4.1 – continued from previous page

Module	Event	Event		Explanation	Solution	[1]	[2] [3	[4]
Type	Туре	ID							
lanhb	Warni	72 ng	Heartbeats sent from HB resource %1 are delayed.(server=%2 time-out=%3*%4 actual-time=%5 delay warning rate=%6)	A delay occurred during the heartbeat transmission of HB resource %1. The transmission destination server is %2. The current timeout value is "%3 (seconds) x %4 (ticks per second)". The actual measurement value when the delay occurred became %5 (ticks), exceeding the delay warning percentage %6 (%).	Check the load on the server to which the delay warning was issued and reduce the load. If an HB timeout occurs, the HB timeout time must be extended.				

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1	[2	[3] [4
lanhb		73	Heartbeats received by HB resource %1 are de- layed.(server=%2 time- out=%3*%4 actual-time=%5 delay warning rate=%6)	A delay occurred during the heartbeat reception of HB resource %1. The transmission source server is %2. The current timeout value is "%3 (seconds) x %4 (ticks per second)". The actual measurement value when the delay occurred became %5 (ticks), exceeding the delay warning percentage %6 (%).	Check the load on the server to which the delay warning was issued and reduce the load. If an HB timeout occurs, the HB timeout time must be extended.				
lankhb	Warnin	71 g	Heartbeats sent from HB resource %1 of server %2 are de-layed.(timeout=% actual-time=%5 delay warning rate=%6)	A delay occurred in the heartbeat from HB resource %1 of server 3*724 The current timeout value is "%3 (seconds) x %4 (ticks per second)". The actual measurement value when the delay occurred became %5 (ticks), exceeding the delay warning percentage %6 (%).	Check the load on server %2 and reduce the load. If an HB timeout occurs, the HB timeout time must be extended.	o	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2]	[3] [4]
lankhb	Warni	73 ng	Heartbeats received from HB resource %1 is de- layed.(timeout=% actual-time=%4 delay warning rate=%5)	A delay occurred during the heartbeat reception of HB 2*% ource %1. The transmission source server is %2. The current timeout value is "%3 (seconds) x %4 (ticks per second)". The actual measurement value when the delay occurred became %5 (ticks), exceeding the delay warning percentage %6 (%).	Check the load on the server to which the delay warning was issued and reduce the load. If an HB timeout occurs, the HB timeout time must be extended.				
diskhb	Error	10	Device(%1) of resource(%2) does not exist.	The specified device does not exist.	Check the configuration data.	0	0		
diskhb	Error	11	Device(%1) of resource(%2) is not a block device.	The specified device does not exist.	Check the configuration data.	0	O		
diskhb	Error	12	Raw device(%1) of resource(%2) does not exist.	The specified device does not exist.	Check the configuration data.	0	O		
diskhb	Error	13	Binding device(%1) of resource(%2) to raw device(%3) failed.	The specified device does not exist.	Check the configuration data.	0	О		
diskhb	Error	14	Raw device(%1) of resource(%2) has already been bound to other device.	Raw device %1 of resource %2 is bound to another device.	Specify an unused raw device.	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]	[4]
diskhb		15	File system exists on device(%1) of resource(%2).	A file system exists in device %1 of resource %2.	To use device %1, delete the file system.	0	O		
diskhb	Info	20	Resource %1 recovered from initialization error.	Resource %1 has recov- ered from the initialization error.	-	О	0		
diskhb	Warning	71 g	Heartbeats sent from HB resource %1 of server %2 are de-layed.(timeout=% actual-time=%5 delay warning rate=%6)	A delay occurred in the heartbeat from HB resource %1 of server 3 %24 The current timeout value is "%3 (seconds) x %4 (ticks per second)". The actual measurement value when the delay occurred became %5 (ticks), exceeding the delay warning percentage %6 (%).	Check the load on server %2 and reduce the load. If an HB timeout occurs, the HB timeout time must be extended.	0	0		

Table 4.1 – continued from previous page

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Module Type	Event Type	Event	Message	Explanation	Solution	[1	[2	[3] [4]
diskhb	Warni	72 ng	Heartbeat write of HB resource %1 is delayed.(server=%2 time-out=%3*%4 actual-time=%5 delay warning rate=%6).	A delay occurred during the heartbeat write of HB resource %1. The write destination server is %2. The current timeout value is "%3 (seconds) x %4 (ticks per second)". The actual measurement value when the delay occurred became %5 (ticks), exceeding the delay warning percentage %6 (%).	Check the load on the server to which the delay warning was issued and reduce the load. If an HB timeout occurs, the HB timeout time must be extended.				
diskhb	Warni	73 ng	Heartbeat read of HB resource %1 is de-layed.(server=%2 time-out=%3*%4 actual-time=%5 delay warning rate=%6)	A delay occurred during the heartbeat read of HB resource %1. The read source server is %2. The current timeout value is "%3 (seconds) x %4 (ticks per second)". The actual measurement value when the delay occurred became %5 (ticks), exceeding the delay warning percentage %6 (%).	Check the load on the server to which the delay warning was issued and reduce the load. If an HB timeout occurs, the HB timeout time must be extended.				

Table 4.1 – continued from previous page

Module Type	Event Type	Event	Message	Explanation	Solution	[1]	[2]	[3]	[4]
comhb	Info	1	Device (%1) does not exist.	The specified device does not exist.	Check the configuration data.	0	0		
comhb	Info	2	Failed to open the device (%1).	The specified device could not be opened.	Memory or OS resources may not be sufficient. Check them.	0	O		
comhb	Warni	71 ng	Heartbeats sent from HB resource %1 of server %2 are de-layed.(timeout=% actual-time=%5 delay warning rate=%6)	A delay occurred in the heartbeat from HB resource %1 of server 3 %24 The current timeout value is "%3 (seconds) x %4 (ticks per second)". The actual measurement value when the delay occurred became %5 (ticks), exceeding the delay warning percentage %6 (%).	Check the load on server %2 and reduce the load. If an HB timeout occurs, the HB timeout time must be extended.	0	0		

Table 4.1 – continued from previous page

Module	Event	Event		Explanation	Solution	[1]	[2] [3	[4]
Туре	Туре	ID							
comhb	Warni	72 ng	Heartbeat write of HB resource %1 is delayed.(server=%2 timeout=%3*%4 actual-time=%5 delay warning rate=%6).	A delay occurred during the heartbeat write of HB resource %1. The transmission destination server is %2. The current timeout value is "%3 (seconds) x %4 (ticks per second)". The actual measurement value when the delay occurred became %5 (ticks), exceeding the delay warning percentage %6 (%).	Check the load on the server to which the delay warning was issued and reduce the load. If an HB timeout occurs, the HB timeout time must be extended.				

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2] [3] [4]
comhb	Warnir	73 ng	Heartbeat read of HB resource %1 is delayed.(server=%2 time-out=%3*%4 actual-time=%5 delay warning rate=%6)	A delay occurred during the heartbeat read of HB resource %1. The transmission source server is %2. The current timeout value is "%3 (seconds) x %4 (ticks per second)". The actual measurement value when the delay occurred became %5 (ticks), exceeding the delay warning percentage %6 (%).	Check the load on the server to which the delay warning was issued and reduce the load. If an HB timeout occurs, the HB timeout time must be extended.				
bmchb	Error	10	Failed to initialize to BMC.	BMC initialization failed.	Check whether the hardware can use the BMC linkage function.	0	0		
bmchb	Warnir	71 ng	Heartbeats sent from HB resource %1 of server %2 are de-layed.(timeout=% actual-time=%5 delay warning rate=%6)	Heartbeats from HB resource %1 of server %2 are delayed. The current 35% (second) x %4 (tick count per second). The actual measurement value at delay generation is %5 (tick count) and exceeded the delay warning rate %6 (%).	Check the load status of the server %2 and remove the load. If an HB timeout occurs, extend it.	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2]	[3]	[4
monp	Error	1	An error occurred when initializing monitored process %1. (status=%2)	An initialization error occurred in monitored process %1.	Memory or OS resources might not be sufficient, or the configuration data might be inconsistent. Check them. If the configuration data is not registered, the process message below is output. This message output, however, does not indicate a problem. + mdagnt + webmgr + webalert	0	0		
monp	Error	2	Monitor target process %1 terminated abnormally. (status=%2)	Monitor target process %1 terminated abnormally.	Memory or OS resources may not be sufficient. Check them.	0	O		
monp	Info	3	Monitor target process %1 will be restarted.	Monitor target process %1 will now be restarted.	-	0	O		
monp	Info	4	The cluster daemon will be stopped since the monitor target process %1 terminated abnormally.	The server will now be stopped because monitor target process %1 terminated abnormally.	-	0	0		
monp	Error	5	Attempted to stop the cluster daemon, but failed.	Stopping the server has failed.	The server might not be running or memory or OS re- sources might not be sufficient. Check them.	0	0		
monp	Info	6	The system will be stopped since the monitor target process %1 terminated abnormally.	The system will now stop because monitor target process %1 terminated abnormally.	-	0	O		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]	[4
monp	Error	7	Attempted to stop the system, but failed. (status=%#x)	Stopping the system has failed.	The server might not be running or memory or OS resources might not be sufficient. Check them.	0	0		
monp	Info	8	System will be rebooted since monitor target process %1 terminated abnormally.	The system will now be rebooted because monitor target process %1 terminated abnormally.	-	0	0		
monp	Error	9	Attempted to reboot the system, but failed. (status=%#x)	Rebooting the system has failed.	The server might not be running or memory or OS resources might not be sufficient. Check them.	0	0		
cl	Info	1	There was a request to start %1 from the %2.	A request to start %1 has been issued from %2.	-	0	0		
cl	Info	2	There was a request to stop %1 from the %2.	A request to stop %1 has been issued from %2.	-	0	0		
cl	Info	3	There was a request to suspend %1 from the %2.	A request to suspend %1 has been issued from %2.	-	O	O		
cl	Info	4	There was a request to resume %s from the %s.	A request to resume %1 has been issued from %2.	-	0	0		
cl	Error	11	A request to start %1 failed(%2).	A request to start %1 has failed.	Check the server status.	0	О		
cl	Error	12	A request to stop %1 failed(%2).	A request to stop %1 has failed.	Check the server status.	0	0		
cl	Error	13	A request to suspend %1 failed(%2).	A request to suspend %1 has failed.	Check the server status.	0	0		
cl	Error	14	A request to resume %1 failed(%2).	A request to resume %1 has failed.	Check the server status.	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]	[4
cl	Error	15	A request to %1 cluster failed on some servers(%2).	Request %1 has failed on some servers.	Check the server statuses.	O	О		
cl	Error	16	A request to start %1 failed on some servers(%2).	Starting %1 failed on some servers.	Check the status of %1.	0	0		
cl	Error	17	A request to stop %1 failed on some servers(%2).	Stopping %1 failed on some servers.	Check the status of %1.	0	0		
cl	Warni	ngl 8	Automatic start is suspended be- cause the cluster service was not stopped accord- ing to the nor- mal procedure.	Automatic start has been sus- pended since Automatic startup after the system down was not set.	To start the cluster service, use the Cluster WebUI or clpcl command.	0	0		
cl	Warni		A request to start %1 failed because cluster is running(%2).	Starting %1 has failed since the cluster is running.	Check the status of the cluster.	0	0		
cl	Warni	n £ 1	A request to stop %1 failed because cluster is running(%2).	Stopping %1 has failed since the cluster is running.	Check the status of the cluster.	o	O		
mail	Error	1	The license is not registered. (%1)	Purchase and register the license.	-	0	О		
mail	Error	2	The trial license has expired in %1. (%2)	Register a valid license.	-	0	0		
mail	Error	3	The registered license is invalid. (%1)	Register a valid license.	-	0	0		
mail	Error	4	The registered license is unknown. (%1)	Register a valid license.	-	0	О		
mail	Error	5	mail failed(%s).(SMTF server: %s)	Mail reporting has failed.	Check if an error has occurred on the SMTP server, or a trouble occurred in communicating with the SMTP server.	0	0		
mail	Info	6	mail suc- cessed.(SMTP server: %s)	mail succeed.	-	О	0		

Table 4.1 – continued from previous page

Module	Event Even		Explanation	Solution	[1]	[2	[3	[4]
Type	Type ID							
userw	Warning	Detected a monitor delay in monitoring %1. (time-out=%2*%3 actual-time=%4 delay warning rate=%5)	A monitoring delay was detected during %1 monitoring. The current timeout value is "%2 (seconds) x %3 (ticks per second)". The actual measurement value when the delay was detected became %4 (ticks), exceeding the delay warning percentage %5 (%).	-	O	O		
vipw	Warning	Detected a monitor delay in monitoring %1. (time-out=%2*%3 actual-time=%4 delay warning rate=%5)	A monitoring delay was detected during %1 monitoring. The current timeout value is "%2 (seconds) x %3 (ticks per second)". The actual measurement value when the delay was detected became %4 (ticks), exceeding the delay warning percentage %5 (%).		0	0		

Table 4.1 – continued from previous page

Module	Event Even		Explanation	Solution	[1]	[2]	[3	[4
Type	Type ID				•		•	Ι.
ddnsw	Warning	Detected a monitor delay in monitoring %1. (time-out=%2*%3 actual-time=%4 delay warning rate=%5)	A monitoring delay was detected during %1 monitoring. The current timeout value is "%2 (seconds) x %3 (ticks per second)". The actual measurement value when the delay was detected became %4 (ticks), exceeding the delay warning percentage %5 (%).	-	0	0		
vmw	Warning	Detected a monitor delay in monitoring %1. (time-out=%2*%3 actual-time=%4 delay warning rate=%5)	A monitoring delay was detected during %1 monitoring. The current timeout value is "%2 (seconds) x %3 (ticks per second)". The actual measurement value when the delay was detected became %4 (ticks), exceeding the delay warning percentage %5 (%).	-	0	0		
apisv	Info 1	There was a request to stop cluster from the %1(IP=%2).	A request to stop the server has been issued from %1.	-	0	0		
apisv	Info 2	There was a request to shutdown cluster from the %1(IP=%2).	A request to shut down the server has been issued from %1.	-	O	O		

Table 4.1 – continued from previous page

Module	Event	Event ID	Message	Explanation	Solution	[1]	[2] [3	[4
Type apisv	Type Info	3	There was a re-	A request to re-	_	0	0		
apisv	IIIIO	3	quest to reboot	boot the server	-	0	O		
			cluster from the	has been issued					
			%1(IP=%2).	from %1.					
oniori	Info	4	` ′		_				
apisv	IIIIO	4	There was a re-	A request to	-	0	0		
			quest to suspend cluster from the	suspend the server has been					
				issued from %1.					
	If.	10	%1(IP=%2).						
apisv	Info	10	There was a	A request to	-	0	О		
			request to stop	stop the server					
			server from the	has been issued					
	T 0	4.4	%1(IP=%2).	from %1.					
apisv	Info	11	There was	A request to	-	0	O		
			a request to	shut down the					
			shutdown	server has been					
			server from the	issued from %1.					
			%1(IP=%2).						
apisv	Info	12	There was a re-	A request to re-	-	0	O		
			quest to reboot	boot the server					
			server from the	has been issued					
			%1(IP=%2).	from %1.					
apisv	Info	30	There was a	A request to	-	0	o		
			request to start	start group %1					
			group(%1) from	has been issued					
			the $\%2(IP=\%3)$.	from %2.					
apisv	Info	31	There was a re-	A request to	-	0	О		
			quest to start all	start all groups					
			groups from the	has been issued					
			%1(IP=%2).	from %1.					
apisv	Info	32	There was a	A request to	-	0	О		
			request to stop	stop group %1					
			group(%1) from	has been issued					
			the %2(IP=%3).	from %2.					
apisv	Info	33	There was a re-	A request to	-	0	О		
•			quest to stop all	stop all groups					
			groups from the	has been issued					
			%1(IP=%2).	from %1.					
apisv	Info	34	There was a re-	A request to	-	0	0		
1			quest to restart	restart group					
			group(%1) from	%1 has been					
			the %2(IP=%3).	issued from %2.					
apisv	Info	35	There was a re-	A request	-	0	0		
r '			quest to restart	to restart all			Ü		
			all groups from	groups has been					
			the %1(IP=%2).	issued from %1.					
apisv	Info	36	There was a re-	A request to	-	0	0		
whip ,	11110		quest to move	move group %1		$ $	0		
			group(%1) from	has been issued					
			the %2(IP=%3).	from %2.					
			uic 702(1F=703).	110111 702.					

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]] [4
apisv	Info	37	There was a re-	A request to	_	0	0		
up is .	11110	,	quest to move	move a group					
			group from the	has been issued					
			%1(IP=%2).	from %1.					
apisv	Info	38	There was a re-	A request to fail	_	0	0		
ирго	11110		quest to failover	over group %1					
			group(%1) from	has been issued					
			the $\%2(IP=\%3)$.	from %2.					
apisv	Info	39	There was a re-	A request to fail	-	0	0		
up is .	11110		quest to failover	over a group					
			group from the	has been issued					
			%1(IP=%2).	from %1.					
apisv	Info	40	There was a re-	A request to mi-	_	0	0		
ирточ	11110	.0	quest to migrate	grate group %1					
			group(%1) from	has been issued					
			the $\%2(IP=\%3)$.	from %2.					
apisv	Info	41	There was a re-	A request to mi-	-	0	0		
ирточ	11110		quest to migrate	grate a group					
			group from the	has been issued					
			%1(IP=%2).	from %2.					
apisv	Info	42	There was a re-	A request to	_	0	0		
ирточ	IIII	12	quest to failover	provide failover					
			all groups from	for all groups					
			the %1(IP=%2).	was issued from					
			the 701(H = 702).	%2.					
apisv	Info	43	There was a	A request to	-	0	0		
			request to can-	cancel wait-					
			cel waiting for	ing for the					
			the dependence	dependence					
			destination	destination					
			group of group	group of group					
			the %1 was	%1 was issued					
			issued from %2.	from %2.					
apisv	Info	50	There was a	A request to	-	О	0		
-			request to start	start resource					
			resource(%1)	%1 has been					
			from the	issued from %2.					
			%2(IP=%3).						
apisv	Info	51	There was a re-	A request to	-	О	0		
-			quest to start all	start all re-					
			resources from	sources has					
			the %1(IP=%2).	been issued					
			. ,	from %1.					
apisv	Info	52	There was a	A request to	-	О	0		
-			request to stop	stop resource					
			resource(%1)	%1 has been					
			from the	issued from %2.					
			%2(IP=%3).						

Table 4.1 – continued from previous page

Module Type	Event	Event	Message	Explanation	Solution	[1] 	[2]	[3]	[4
apisv	Info	53	There was a request to stop all resources from the %1(IP=%2).	A request to stop all re- sources has been issued from %1.	-	0	О		
apisv	Info	54	There was a request to restart resource(%1) from the %2(IP=%3).	A request to restart resource %1 has been issued from %2.	-	0	О		
apisv	Info	55	There was a request to restart all resources from the %1(IP=%2).	A request to restart all resources has been issued from %1.	-	0	О		
apisv	Info	60	There was a request to suspend monitor resources from the %1(IP=%2).	A request to suspend monitor resources has been issued from %1.	-	0	O		
apisv	Info	61	There was a request to resume monitor resources from the %1(IP=%2).	A request to resume monitor resources has been issued from %1.	-	0	O		
apisv	Info	62	There was a request to enable Dummy Failure of monitor resources from the %1(IP=%2).	A request to enable Dummy Failure of moni- tor resource was issued from %1.	-	0	0		
apisv	Info	63	There was a request to disable Dummy Failure of monitor resources from the %1(IP=%2).	A request to disable Dummy Failure of moni- tor resource was issued from %1.	-	0	0		
apisv	Info	70	There was a request to set CPU frequency level from the %1(IP=%2).	A request to set a CPU fre- quency level has been issued from %1.	-	0	O		
apisv	Error	101	A request to stop cluster was failed(0x%08x).	A request to stop the server has failed.	Check the server status.	0	0		
apisv	Error	102	A request to shutdown cluster was failed(0x%08x).	A request to shut down the server has failed.	Check the server status.	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2] [3] [4
apisv	Error	103	A request to reboot cluster was failed(0x%08x).	A request to re- boot the server has failed.	Check the server status.	0	0		
apisv	Error	104	A request to suspend cluster was failed(0x%08x).	A request to suspend the server has failed.	Check the server status.	O	O		
apisv	Error	110	A request to stop server was failed $(0x\%08x)$.	A request to stop the server has failed.	Check the status of the server.	О	0		
apisv	Error	111	A request to shutdown server was failed(0x%08x).	A request to shut down the server has failed.	Check the status of the server.	0	O		
apisv	Error	112	A request to reboot server was failed(0x%08x).	A request to reboot the server has failed.	Check the status of the server.	0	0		
apisv	Error	113	A request to server panic was failed(0x%08x).	Server panic has failed.	Check the status of the server.	0	0		
apisv	Error	114	A request to server reset was failed(0x%08x).	Server reset has failed.	Check the status of the server.	0	0		
apisv	Error	115	A request to server sysrq was failed(0x%08x).	SYSRQ panic has failed.	Check the status of the server.	0	O		
apisv	Error	116	A request to KA RESET was failed(0x%08x).	Keepalive reset has failed.	Check the status of the server.	0	0		
apisv	Error	117	A request to KA PANIC was failed(0x%08x).	Keepalive panic has failed.	Check the status of the server.	0	0		
apisv	Error	118	$\begin{array}{ccc} A & request & to \\ BMC & RE-\\ SET & was \\ failed(0x\%08x). \end{array}$	BMC reset has failed.	Check the status of the server.	0	0		
apisv	Error	119	A request to BMC PowerOff was failed $(0x\%08x)$.	BMC power-off has failed.	Check the status of the server.	0	0		
apisv	Error	120	A request to BMC PowerCycle was failed(0x%08x).	BMC power cycle has failed.	Check the status of the server.	O	O		
apisv	Error	121	A request to BMC NMI was failed(0x%08x).	BMC NMI has failed.	Check the status of the server.	О	0		

Table 4.1 – continued from previous page

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Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2] [3] [4
apisv	Error	130	A request to start group(%1) was failed(0x%08x).	A request to start group %1 has failed.	Take appropriate action according to the message output by rc indicating the unsuccessful group start.	0	0		
apisv	Error	131	A request to start all groups was failed(0x%08x).	A request to start all groups has failed.	Same as above	0	0		
apisv	Error	132	A request to stop group(%1) was failed(0x%08x).	A request to stop group %1 has failed.	Take appropriate action according to the message output by rc indicating the unsuccessful group stop.	0	0		
apisv	Error	133	A request to stop all groups was failed(0x%08x).	A request to stop all groups has failed.	Same as above	0	O		
apisv	Error	134	A request to restart group(%1) was failed(0x%08x).	Restarting group (%1) has failed.	Take appropriate action according to the group stop failure message issued by rc.	O	0		
apisv	Error	135	A request to restart all groups was failed(0x%08x).	Restarting all groups has failed.	Same as above.	0	O		
apisv	Error	136	A request to move group(%1) was failed(0x%08x).	A request to move group %1 has failed.	Take appropriate action according to the message output by rc indicating the unsuccessful group movement.	0	0		
apisv	Error	137	A request to move all groups was failed(0x%08x).	Moving all groups has failed.	Same as above.	0	0		
apisv	Error	138	A request to failover group(%1) was failed(0x%08x).	A request to fail over group %1 has failed.	Take appropriate action according to the message output by rc indicating the unsuccessful group failover.	0	0		
apisv	Error	139	A request to failover group was failed $(0x\%08x)$.	A request to fail over all groups has failed.	Same as above	0	O		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2	[3]] [4
apisv	Error	140	A request to migrate group(%1) was failed(0x%08x).	Migration of group (%1) has failed.	Take appropriate action according to the group failover failure message issued by rc.	0	0		
apisv	Error	141	A request to migrate all groups was failed(0x%08x).	Migration of all groups has failed.	Same as above.	0	0		
apisv	Error	142	A request to failover all groups was failed(0x%08x).	Failover for all groups has failed.	Same as above.	0	O		
apisv	Error	143	A request to cancel waiting for the dependency destination group of group %1 has failed(0x%08x).	Canceling waiting for the dependency destination group of group %1 has failed.	Same as above.	0	O		
apisv	Error	150	A request to start resource(%1) was failed(0x%08x).	A request to start resource %1 has failed.	Take appropriate action according to the message output by rc indicating the unsuccessful resource start.	0	0		
apisv	Error	152	A request to stop resource(%1) was failed(0x%08x).	A request to stop resource %1 has failed.	Take appropriate action according to the message output by rc indicating the unsuccessful resource stop.	0	0		
apisv	Error	154	A request to restart resource(%1) was failed(0x%08x).	A request to restart resource %1 has failed.	Take appropriate action according to the message output by rc indicating the unsuccessful resource restart.	0	0		
apisv	Error	155	A request to restart all resources was failed(0x%08x).	A request to start all re- sources has failed.	Same as above	0	0		
apisv	Error	160	A request to suspend monitor resource was failed(0x%08x).	A request to suspend the monitor resources has failed.	Check the status of the monitor resources.	0	O		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]	[4
apisv	Error	161	A request to resume monitor resource was failed(0x%08x).	A request to resume the monitor resources has failed.	Same as above	0	О		
apisv	Error	162	A request to enable Dummy Failure of monitor resource was failed(0x%08x).	The monitor resource failed to start Dummy Failure.	Check the status of the monitor resource.	0	O		
apisv	Error	163	A request to disable Dummy Failure of monitor resource was failed(0x%08x).	The monitor resource failed to stop Dummy Failure.	Same as above.	0	O		
apisv	Error	170	A request to set CPU frequency was failed(0x%08x).	A request to specify the CPU frequency has failed.	Take appropriate action according to the message output by rc indicating the unsuccessful CPU frequency specification.	0	0		
cfmgr	Info	1	The cluster configuration data has been uploaded by %1.	The configuration data has been uploaded.	-	0	O		
sra	Error	1	system monitor closed because reading the SG file failed.	An error occurred in reading the SG file.	Check the message separately issued.		0		
sra	Error	2	Opening an ignore file failed. file name = %1, errno = %2. %1:File name %2:errno	The SG file (%1) failed to be opened.	Restart the cluster, or execute the suspend and resume.		0		
sra	Error	3	Reading a configuration file failed.	An error occurred in reading the SG file.	Check the message separately issued.		O		
sra	Error	4	Trace log initialization failed.	The internal log file could not be initialized.	Restart the cluster, or execute the suspend and resume.		0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2]	[3] [4
sra	Error	5	Creating a daemon process failed.	An external error has occurred.	Check the following possible causes: memory shortage or OS resource insufficiency.		0		
sra	Error	6	Reading a service configuration file failed.	An error oc- curred in reading the SG file.	Check the message separately issued.		O		
sra	Error	7	mlock() failed.	An external error has occurred.	Check the following possible causes: memory shortage or OS resource insufficiency.		0		
sra	Error	8	A daemon process could not be created.	SystemResourceA has failed to start (turning the process into a daemon).	ing possible causes: memory shortage or OS resource insuffi- ciency.		0		
sra	Error	9	stdio and stderr could not be closed.	SystemResource A has failed to start (closing the standard I/O).	ing possible causes: memory shortage or OS resource insuffi- ciency.		0		
sra	Error	10	A signal mask could not be set up.	SystemResource A has failed to start (setting the signal mask).	ing possible causes: memory shortage or OS resource insuffi- ciency.		0		
sra	Error	11	A configuration file error occurred. (1) [line = %1, %2] %1:Line %2:Setting value	SystemResource A has failed to start (reading the SG file).	Restart the cluster, agenexecute the suspend and resume.		O		
sra	Error	12	A configuration file error occurred. (2) [line=%1, %2] %1:Line %2:Setting value	SystemResource A has failed to start (reading the SG file).	Restart the cluster, agenexecute the suspend and resume.		O		

Table 4.1 – continued from previous page

Error configuration file error occurred. The DLL pointer was not found. [line = %1, %2] %1:Line %2:Setting value Sra Error 14 malloc failed. [event structure] malloc failed. [event structure] file error occurred due to an invalid event. [%1:Setting value Sra Error 15 A service configuration file error occurred due to an invalid event. [%1] %1:Setting value Sra Error 16 A plugin event configuration file error occurred due to start (reading the service file). Sra Error 17 Internal error occurred. SystemResource A gentexecute suspend a resume. SystemResource A gentexer to or execute suspend a resume. Restart the SystemResource A gentexecute suspend a resume. SystemResource A gentexecute suspend a resume. Restart the SystemResource A gentexecute has failed to start (reading the plugin event file). SystemResource A gentexecute suspend a resume. Restart the SystemResource A gentexecute file of the start (reading the plugin event file). SystemResource A gentexecute suspend a resume.		ן ניז] [2] [3	3] [4]
Error configuration file error occurred. The DLL pointer was not found. [line = %1, %2] %1:Line %2:Setting value sra Error 14 malloc failed. [event structure] was failed to start (registering the plugin event). sra Error 15 A service configuration file error occurred due to an invalid event. [%1] %1:Setting value sra Error 16 A plugin event configuration file error occurred due to an invalid event. [%1] %1:Setting value sra Error 17 Internal error occurred. SystemResource Agentexecute suspend a resume. SystemResource Agentexecute suspend a resume. Restart the SystemResource Agentexecute suspend a resume. SystemResource Agentexecute suspend a resume. Restart the SystemResource Agentexecute suspend a resume. A plugin event file start (reading the plugin event file). SystemResource Agentexecute suspend a resume. A plugin event of the start (reading the plugin event file). SystemResource Agentexecute suspend a resume. A plugin event of the plugin event file of the plugin e					
State SystemResource SystemResource SystemResource Suspend and state SystemResource Suspend and state SystemResource Suspend and state SystemResource Suspend a resume.	l and		0		
Error Configuration file error has failed to start (reading the service file). SystemResource A genexecute suspend a resume. start (reading the service file). SystemResource A genexecute suspend a resume. The service file suspend a resume. SystemResource A genexecute suspend a resume. Restart the service file suspend a resume. SystemResource A genexecute suspend a resume. Restart the same suspend a resume. SystemResource A genexecute suspend a resume. SystemResource A genexecute suspend a resume. Restart the service file suspend a resume. SystemResource A genexecute suspend a resume. Restart the service file suspend a resume. SystemResource A genexecute suspend a resume. Restart the plugin event file suspend a resume. SystemResource A genexecute susp	ute the sus-	1 1	0		
Error configuration file has failed to suspend a resume. sra Error 17 Internal error occurred. SystemResource Agent execute has failed to start (reading the plugin event file). sra Error 17 Internal error occurred. A shared memory access error has occurred.	l and		O		
occurred. ory access error has occurred.	l and		o		
sra 101 Opening an SG The SG file Recreate t			0		
Warning file failed. file name = %1, errno = %2 %1:File name %2:errno (%1) failed to be opened. cluster, or the susper resume.	or execute end and	;	o		

Table 4.1 – continued from previous page

Module Type	Event Ever	nt Message	Explanation	Solution	[1]	[2]	[3]	[4
sra	102 Warning	malloc(3) fail(1) . [%1] %1:Function name	An external error has occurred.	Check the following possible causes: memory shortage or OS resource insufficiency.		o		
sra	103 Warning	malloc(3) fail(2). [%1] %1:Function name	An external error has occurred.	Check the following possible causes: memory shortage or OS resource insufficiency.		0		
sra	104 Warning	An internal error occurred. rename(2) error (errno = %1) %1:errno	This product has terminated abnormally.	See the most recently issued system log message.		o		
sra	105 Warning	realloc(3) fail. [%1]. %1:Function name	An external error has occurred.	Check the following possible causes: memory shortage or OS resource insufficiency.		o		
sra	106 Warning	A script timed out. (%1 %2) %1:Script file name %2:Argument	An external error has occurred.	Check the load status of the server and remove the load.		0		
sra	107 Warning	[%1] execvp(2) fail (%2). %1:Script file name %2:errno	An external error has occurred.	Check the following possible causes: memory shortage or OS resource insufficiency.		O		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2] [3] [4]
sra	Warni	108 ng	[%1] fork fail (%2). Suspended. %1:Script file name %2:errno	An external error has occurred.	Check the following possible causes: memory shortage or OS resource insufficiency.		o		
sra	Warni	109 ng	malloc(3) fail. [%1] %1:Function name	An external error has occurred.	Check the following possible causes: memory shortage or OS resource insufficiency.		o		
sra	Info	201	A script was executed. (%1) %1:Script name	Script (%1) has been executed.	-		0		
sra	Info	202	Running a script finished. (%1) %1:Script name	Script has ended normally.	-		0		
sra	Info	203	An %1 event succeeded. %1:Executed event type	The operation management command has been executed. The executed event type (boot, shutdown, stop, start, or flush) is output.	-		0		
sra	Error	301	A process resource error was detected. (type = cpu, pid = %1, %2) %1:Process ID %2:Process name	An error was detected in monitoring the CPU usage rates of specific processes.	Check the possible causes of the monitoring failure.	o	O		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]	[4]
sra	Error	301	A process resource error was detected. (type = memory leak, pid = %1, %2) %1:Process ID %2:Process name	An error was detected in monitoring the memory usage of specific processes.	Check the possible causes of the monitoring failure.	O	0		
sra	Error	301	A process resource error was detected. (type = file leak, pid = %1, %2) %1:Process ID %2:Process name	An error was detected in monitoring the number (maximum) of open files of specific processes.	Check the possible causes of the monitoring failure.	O	O		
sra	Error	301	A process resource error was detected. (type = open file, pid = %1, %2) %1:Process ID %2:Process name	An error was detected in monitoring the number (upper kernel limit) of open files of specific processes.	Check the possible causes of the monitoring failure.	O	O		
sra	Error	301	A process resource error was detected. (type = thread leak, pid = %1, %2) %1:Process ID %2:Process name	An error was detected in monitoring the number of threads of specific processes.	Check the possible causes of the monitoring failure.	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2] [3	[4]
sra	Error	301	A process resource error was detected. (type = defunct, pid = %1, %2) %1:Process ID %2:Process name	An error was detected in monitoring the zombie processes.	Check the possible causes of the monitoring failure.	O	0		
sra	Error	301	A process resource error was detected. (type = same name process, pid = %1, %2) %1:Process ID %2:Process name	An error was detected in monitoring the same-name processes.	Check the possible causes of the monitoring failure.	o	0		
sra	Error	302	A system resource error was detected. (type = cpu)	An error was detected in monitoring the CPU usage rates of the system.	Check the possible causes of the monitoring failure.	О	0		
sra	Error	302	A system resource error was detected. (type = memory)	An error was detected in monitoring the total usage of memory of the system.	Check the possible causes of the monitoring failure.	0	O		
sra	Error	302	A system resource error was detected. (type = swap)	An error was detected in monitoring the total usage of virtual memory of the system.	Check the possible causes of the monitoring failure.	0	0		
sra	Error	302	A system resource error was detected. (type = file)	An error was detected in monitoring the total number of open files of the system.	Check the possible causes of the monitoring failure.	0	0		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		Explanation	Solution	[1]	[2]	[3]	[4
sra	Error	302	A system resource error was detected. (type = thread)	An error was detected in monitoring the total number of threads of the system.	Check the possible causes of the monitoring failure.	0	0		
sra	Error	303	A system resource error was detected. (type = number of process, user name = %1) %1:User name	An error was detected in monitoring the number of running processes for each user of the system.	Check the possible causes of the monitoring failure.	o	o		
sra	Error	304	A disk resource error was detected. (type = used rate, level = NOTICE, %1) %1:mount point	A notice level error was detected in monitoring the disk usage rates.	Check the possible causes of the monitoring failure.	o	o		
sra	Error	304	A disk resource error was detected. (type = used rate, level = WARNING, %1) %1:mount point	A warning level error was detected in monitoring the disk usage rates.	Check the possible causes of the monitoring failure.	o	o		
sra	Error	304	A disk resource error was detected. (type = free space, level = NOTICE, %1) %1:mount point	A notice level error was detected in monitoring the free disk space.	Check the possible causes of the monitoring failure.	o	O		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID	Message	Explanation	Solution	[1]	[2]	[3]] [4
sra	Error	304	A disk resource error was detected. (type = free space, level = WARNING, %1) %1:mount point	A warning level error was detected in monitoring the free disk space.	Check the possible causes of the monitoring failure.	0	O		
lens	Info	1	The number of licenses is %1. (Product name:%2)	The number of cluster licenses is %1. %1: Number of licenses %2: Product name	-	O	O		
lens	Info	2	The trial license is valid until %1. (Product name:%2)	The trial license is effective until %1. %1: Trial end date %2: Product name	-	0	0		
lcns	Warni	3 ng	The number of licenses is insufficient. The number of insufficient licenses is %1. (Product name: %2)	The number of licenses is insufficient. The number of insufficient licenses is %1. %1: Required number of licenses %2: Product name	Purchase the required number of licenses and then register them.	0	0		
lcns	Error	4	The license is not registered. (Product name:%1)	The license is not registered. %1: Product name	Purchase the license and then register it.	0	o		

Table 4.1 – continued from previous page

Module Type	Event Type	Event ID		tinued from previous Explanation	Solution	[1]	[2	[3] [4]
lcns	Error	5	The trial license has expired in %1. (Product name:%2)	The validity term of the trial license has expired. %1: Trial end date %2: Product name	Register a valid license.	0	o		
lens	Error	6	The registered license is invalid. (Product name:%1, Serial No:%2)	The registered license is invalid. %1: Product name %2: Serial number	Register a valid license.	0	o		
lcns	Error	7	The registered license is unknown. (Product name:%1)	The registered license is unknown. %1: Product name	Register a valid license.	o	o		
lens	Error	8	The trial license is valid from %1. (Product name:%2)	The validity term of the trial license is not reached. %1: Trial start date %2: Product name	Register a valid license.	0	O		
lens	Info	9	The fixed term license is valid until %1. (Product name:%2)	The validity term of the fixed-term license is effective until %1. %1:End date of validity term %2: Product name	-	o	0		

Table 4.1 – continued from previous page

Module Type	Event Event Type ID	ent Message	Explanation	Solution	[1]	[2]	[3]	[4]
lens	Error 10	The fixed term license has expired in %1. (Product name:%2)	The validity term of the fixed-term license has expired. %1: End date of validity term %2: Product name	Register a valid license.	o	O		
webmgr	Warning1	HTTPS configuration isn't correct, HTTPS mode doesn't work. Please access Web-Manager by HTTP mode.	HTTPS configuration isn't correct, HTTPS mode doesn't work. Please access Web-Manager by HTTP mode.	-	0	0		

4.2 Driver syslog messages

4.2.1 Kernel mode LAN heartbeat driver

Table 4.2 – continued from previous page

Module	Event		ntMessage	Description	Solution
Type	type	ID	itivicssage	Description	Coldion
clpkhb	Info	105	Kernel Heart-	The clpkhb driver was	-
Сіркію	IIIIO	103	beat was ini-	successfully initialized	
			tialized by	by [%1] module.	
			%1.	by [701] module.	
clpkhb	Info	106	Kernel Heart-	The clpkhb driver	
Сіркію	IIIIO	100	beat was ter-	was successfully	_
			minated by	terminated by [%1]	
			%1.	module.	
clpkhb	Error	107	Can not reg-	Failed to create proc	
Сіркію	Liioi	107	ister Kernel	file for the clpkhb	
			Heartbeat proc	driver.	
			file!		
clpkhb	Error	108	Version error.	The inside version in-	Reinstall EXPRESS-
				formation of the clp-	CLUSTER.
				khb driver is invalid.	
clpkhb	Info	110	The send thread	The send thread of the	-
			has been cre-	clpkhb driver was suc-	
			ated. (PID=%1)	cessfully created. The	
				process ID is [%1].	
clpkhb	Info	110	The recv thread	The receive thread of	-
			has been cre-	the clpkhb driver was	
			ated. (PID=%1)	successfully created.	
				The process ID is	
				[%1].	
clpkhb	Error	111	Failed to create	Failed to create the	-
			send thread.	send thread of the clp-	
			(err=%1)	khb driver due to the	
				error [%1].	
clpkhb	Error	111	Failed to create	Failed to create the re-	-
			recv thread.	ceive thread of the clp-	
			(err=%1)	khb driver due to the	
1 1 1 1 1 1	T. C	110	YZ'11 1 .1 .1	error [%1].	
clpkhb	Info	112	Killed the send	The send thread of clp-	-
			thread success-	khb driver was suc-	
-11 1.1	In C	112	fully.	cessfully stopped.	
clpkhb	Info	112	Killed the recv	The receive thread of	-
			thread success-	clpkhb driver was suc-	
-11-1	In fe	112	fully.	cessfully stopped.	
clpkhb	Info	113	Killed the recv	Killing the clpkhb	-
			thread success-	driver.	
-11-1-1-	I.a.f.	114	fully.	IZ:11:	
clpkhb	Info	114	Killed the recv	Killing the clpkhb	-
			thread success-	driver.	
"1."1.1.1.	I f.	115	fully.	The allulate 12'	
clpkhb	Info	115	Kernel Heart-	The clpkhb driver suc-	-
			beat has been	cessfully stopped.	
			stoppedl		

Table 4.2 – continued from previous page

Module	Event		nt Message	Description	Solution
Type	type	ID	itiviessage	Description	Solution
clpkhb	Error	120	Failed to create socket to send %1 packet. (err=%2)	Failed to create the socket for sending the [%1] (HB/DOWN/KA) packet due to the error [%2].	-
clpkhb	Error	120	Failed to create socket to receive packet. (err=%2)	Failed to create the socket for receiving the packet due to the error [%2].	-
clpkhb	Error	121	Failed to create sending %1 socket address. (err=%2)	Failed to set the socket for sending the [%1] (HB/DOWN/KA) packet.	The physical memory may be running out. Add physical memo- ries, or terminate un- necessary applications.
clpkhb	Error	122	Failed to create %1 socket address. (err=%2)	Failed to set the socket for sending the [%1] (HB/DOWN/KA) packet.	The physical memory may be running out. Add physical memories, or terminate unnecessary applications.
clpkhb	Error	123	Failed to bind %1 socket. (err=%2)	Failed to bind the socket for [%1] (HB/DOWN/KA).	Check the status of the operating system. The communication port for clpkhb may be used already by other applications or others. Check the usage status of the communication port. Check the cluster configuration information server property if the IP address set for the interconnect LAN I/F is correct.
clpkhb	Error	125	Failed to send %1 data to %2. (err=%3)	Failed to send [%1] (HB/DOWN/KA) data to [%2].	Check the status of the network for the clpkhb communication. Check the status of the remote server. Check that the setting information is correct.

Table 4.2 – continued from previous page

Module	Event		nt Message	Description	Solution
Type	type	ID	itiviossage	Description	Column
clpkhb	Error	126	Failed to receive data. (err=%3)	Failed to receive data.	The remote server may be down. Check if the server is active. If the server is not down, check the status of the network for clpkhb.
clpkhb	Info	127	1. Received an invalid packet. Magic is not correct! 2. Received an invalid packet from %1. Magic(%2) is not correct!	 Received an invalid packet. Ignore the packet. An invalid packet [%2] has been received from %1, but will be ignored. 	Other applications may be sending the data to the port for clpkhb. Check the usage status of the port.
clpkhb	Error	128	 Received an invalid packet. %1 is not correct! Received an invalid packet from %1. %2 is not correct! 	 Received an invalid packet. The invalid part of the packet is [%1] (Resource priority/Source ip address). An invalid packet has been received from %1. The invalid part of the packet is %2 (Resource priority/Source ip address). 	Same as above.
clpkhb	Info	129	Receiving operation was interrupted by ending signal!	The receive thread ends by termination signal.	-

Table 4.2 – continued from previous page

Type type ID clpkhb Info 130 1. clpka:	Module	Event		ntMessage	Description	Solution
Clpkhb				itivicssage	Description	Coldion
1. clpka:						Check the status of the
priority: %1> creason: %2> <pre></pre>				1. clpka:	1. A reset message	
Silent Server S					was received	occurred.
Son: %2> Sprocess Sprocess						
Server priority: %1> <					1	
the reason [%2] problem occurred in the process [%3]. 2. clpka:					· ·	
System reboot. 2. clpka:				=		
System reboot. 2. clpka: 2. A reset message was received from another ity: %1> < exit code: %3> system reboot. [%3]. 2. A panic message was received from another ity: %1> server. The prise ority [%1] server was reset because code: %3> system reboot. [%3]. 2. A panic message was received from another ity: %1> creations: %2> <pre></pre>						
Clpkhb Info 131 1. clpka:					_ <u>-</u>	
2. clpka:				-	<u> </u>	
Clpkhb Info 131 1. clpka:						
clpkhb Info Info Info Info Info Info Info Info				=	_	
clpkhb Info Info Info Info Info Info Info Info						
Clpkhb Info 131 1. clpka:				•		
clpkhb Info Info Info Info Info Info Info Info				•		
clpkhb Info Info Info Info Info Info Info Info				%2> <exit< td=""><td>was reset because</td><td></td></exit<>	was reset because	
clpkhb Info				code: %3>	%2 ended with	
clpkhb Info				•	the exit code	
1. clpka:				reboot.	[%3].	
1. clpka:	clnkhh	Info	131			Check the status of the
Server priority: Failed to allocate memory. was received from another server. The prison: %2> cocurred. from another server. The prison: %2> cocurred. from another server. The priority [%1] server panicked because the reason [%2] %3> problem occurred system in the process panic. [%3]. 2. A panic message was received from another ity: %1> server. The priority [%1] server panicked because code: %3> %2 ended with system the exit code panic. [%3]. Clpkhb Error 140 Reference an inaccessible memory Error 141 Failed to allocate memory. Failed to allocate memory may be running out. Add physical memory may be running out. Add p	Сіркію	IIIIO	131	1 clnka	1 A nanic message	
priority: %1> < reason: %2> <pre></pre>				=		
Solution Solution						
clpkhb Error 140 Reference an inaccessible memory area! Approcess name: the reason [%2] problem occurred in the process panic. [%3].					server. The pri-	
clpkhb Error 140 Reference an inaccessible memory area! the reason [%2] problem occurred in the process [%3]. 2. clpka: 2. A panic message was received from another server. The priority: %1> server. The priority [%1] server panicked because %2> <exit %3="" code:=""> %2 ended with the exit code [%3]. Clpkhb Error 140 Reference an inaccessible memory area! Failed to pass data to an application by ioctl(). Clpkhb Error 141 Failed to allocate memory. The physical memory may be running out. Add physical memory.</exit>				son: %2>	ority [%1] server	
clpkhb Error 140 Reference an inaccessible memory area! W3> problem occurred in the process [%3].				<pre><pre>process</pre></pre>	panicked because	
system panic. 2. clpka:						
clpkhb Error 140 Reference an inaccessible memory area! clpkhb Error 141 Failed to allocate memory! clpkhb Error 141 Failed to allocate memory! clpkhb Error 141 Failed to allocate memory. clpkhb Error 144 Failed to allocate memory. clpkhb Error 144 Failed to allocate memory.					_	
2. clpka:				•	· -	
clpkhb Error 140 Reference an inaccessible memory ory area! Server				_		
clpkhb Error 140 Reference an inaccessible memory area! Failed to allocate memory! clpkhb Error 141 Failed to allocate memory. From another server. The privaction and price ority [%1] server panicked because code: %3> %2 ended with system the exit code panic. [%3]. Clpkhb Error 140 Reference an inaccessible memory area! Failed to pass data to an application by ioctl(). Clpkhb Error 141 Failed to allocate memory. The physical memory may be running out. Add physical memory.				=	1	
clpkhb Error 140 Reference an inaccessible memory area! Clpkhb Error 141 Failed to allocate memory! Failed to allocate memory. Failed to allocate memory may be running out. Add physical memory. Add physical memory. Add physical memory.						
clpkhb Error 140 Reference an inaccessible memory area! clpkhb Error 141 Failed to allocate memory! clpkhb Error 141 Failed to allocate memory.				-		
clpkhb Error 140 Reference an inaccessible memory area! Failed to allocate memory! clpkhb Error 141 Failed to allocate memory. Signature panicked because with panicked because with the exit code panic. Failed to pass data check the status of the operating system. Clpkhb Error 141 Failed to allocate memory. The physical memory may be running out. Add physical memory.				•		
clpkhb Error 140 Reference an inaccessible memory area! Failed to allocate memory. clpkhb Error 141 Failed to allocate memory.						
clpkhb Error 140 Reference an inaccessible memory area! Failed to pass data to an application by ioctl(). Clpkhb Error 141 Failed to allocate memory! Failed to allocate memory. The physical memory may be running out. Add physical memory.						
clpkhb Error 140 Reference an in- accessible memory area! Failed to pass data to an application by ioctl(). clpkhb Error 141 Failed to allo- cate memory! Failed to allocate memory. The physical memory may be running out. Add physical memory.				system	the exit code	
accessible memory area! to an application by operating system. clpkhb Error 141 Failed to allocate memory! Failed to allocate memory. The physical memory may be running out. Add physical memory.				panic.	[%3].	
accessible memory area! to an application by operating system. clpkhb Error 141 Failed to allocate memory! Failed to allocate memory. The physical memory may be running out. Add physical memory.	clnkhh	Frror	140	Reference an in	Failed to pass data	Check the status of the
clpkhb Error 141 Failed to allocate memory! ioctl(). Clpkhb Error 141 Failed to allocate memory! memory. The physical memory may be running out. Add physical memory.	ыркио	Lilui	140		_	
clpkhb Error 141 Failed to allo- cate memory! Failed to allocate memory may be running out. Add physical memo-					1	operating system.
cate memory! memory. may be running out. Add physical memo-	clpkhb	Error	141			The physical memory
Add physical memo-	1 -					
				Ž	•	_ =
lies, or terminate un-						ries, or terminate un-
necessary applications.						

Table 4.2 – continued from previous page

Module	Event	Ever	nt Message	Description	Solution
Type	type	ID			
clpkhb	Error	142	Invalid argu-	The parameter passed	Check if the settings
			ment, %1!	to the clpkhb driver is	are correct.
				not correct.	
clpkhb	Warning	143	Local node	The heartbeat resource	Same as above.
			has nothing	information passed to	
			with current	the clpkhb driver is not	
			resource.	correct.	

4.2.2 Keepalive driver

Module Type	Event type	Ever ID	ntMessage	Description	Solution
clpka	Info	101	Kernel Keepalive was initialized successfully. (major=%1, minor=%2)	The clpka driver was successfully loaded.	-
clpka	Info	102	Kernel Keepalive was released successfully.	The clpka driver was successfully unloaded.	-
clpka	Error	103	Can not register miscdev on minor=%1. (err=%2)	Failed to load the clpka driver.	Check the distribution and kernel support the kernel mode LAN heartbeat.
clpka	Info	105	Kernel Keepalive was Initialized by %1.	The clpka driver was successfully initialized.	-
clpka	Error	107	Can not register Kernel Keepalive procfile!	Failed to create proc file for the clpka driver.	The kernel may not be running normally because of lack of memory or other reasons. Add physical memories, or terminate unnecessary applications.
clpka	Error	108	Version error.	The version of the clpka driver is invalid.	Check if the installed clpka driver is legitimate.

Table 4.3 – continued from previous page

Module Type	Event type	Ever ID	ntMessage	Description	Solution
clpka	Error	111	Failed to create notify thread. (err=%1)	Failed to create the thread of the clpka driver.	The kernel may not be running normally because of lack of memory or other reasons. Add physical memories, or terminate unnecessary applications.
clpka	Info	130	Reboot tried.	In keeping with the set- tings, the clpka driver tried to restart the ma- chine.	-
clpka	Info	132	Kernel do nothing.	In keeping with the settings, the clpka driver did nothing.	-
clpka	Error	140	Reference an in- accessible mem- ory area!	Failed to pass the version information of the clpka driver to the cluster main body.	Check if the installed clpka driver is legitimate.
clpka	Error	141	Failed to allocate memory!	The size of physical memory is not sufficient.	The physical memory is running out. Add physical memories, or terminate unnecessary applications.
clpka	Error	142	Invalid argument, %1!	Invalid information was passed from the cluster main body to the clpka driver.	Check if the installed clpka driver is legitimate.
clpka	Error	144	Process (PID=%1) is not set.	A process other than cluster main body tried operation to the clpka driver.	Check if there is any application trying to access to the clpka driver erroneously.

4.3 Detailed information on activating and deactivating group resources

4.3.1 EXEC resources

Module Type	Туре	Retu Valu	rıMessage e	Explanation	Solution
exec	Error	1	Termination code %1 was returned.	A termination code other than 0 has been returned as the execution result of a synchronous script or application.	If this message appears for a script, the contents of the script might be incorrect. Check whether the script is correctly specified. If this message appears for an application, the application might have terminated abnormally. Check the application operation.
exec	Error	1	Command was not completed within %1 seconds.	Execution of a synchronous script or application has not terminated within the specified time.	If this message appears for a script, the contents of the script might be incorrect. Check whether the script is correctly described. If this message appears for an application, the application might have stalled. Check the application operation. The cause of this error might be identifiable from the logs. For details about log output settings, refer to "Details of other settings" in the "EXPRESSCLUSTER X SingleServerSafe Configuration Guide".

Table 4.4 – continued from previous page

Module Type	Туре	Retu Valu	rnMessage	Explanation	Solution
exec	Error	1	Command was aborted.	A synchronous script or application has been aborted.	If this message appears for an application, the application might have been aborted. Check the application operation. Memory or OS resources may not be sufficient. Check them.
exec	Error	1	Command was not found. (error=%1)	The application was not found.	The application path might be incorrect. Check the path of the application in the configuration data.
exec	Error	1	Command string was invalid.	The application path is invalid.	Check the path of the application in the configuration data.
exec	Error	1	Log string was invalid.	The path of the log output destination is incorrect.	Check the path of the data log output destination in the configuration data.
exec	Error	1	Internal error. (status=%1)	Another internal error occurred.	Memory or OS resources may not be sufficient. Check them.

4.3.2 VM resources

Module	Туре	Retu	rnMessage	Description	Solution
Type		valu	Þ		
vm	Error	1	Initialize error	An error was detected	Check if the cluster
		to	occured.	while initialization.	configuration informa-
		6,8			tion is correct.
vm	Error	7	Parameter is in-	The parameter is in-	Check if the cluster
			valid.	valid.	configuration informa-
					tion is correct.
vm	Error	9	Failed to %s	Failed to control the	Check the status of the
		to	virtual machine	virtual machine.	virtual machine.
		13	%s.		

Table 4.5 – continued from previous page

Module	Туре		rıMessage	Description	Solution
Туре		value			
vm	Error	22	Datastore must	Datastore name must	Click the [Details]
			be setted.	be setted in the Cluster	tab of VM Resources
				WebUI.	Properties in the Clus-
					ter WebUI, enter the
					name of data store
					containing the virtual
					machine configuration
					information to [Data
					Store Name]. And
					then click [Apply the
					Configuration File].
vm	Error	23	VM configu-	VM configuration file	Click the [Details]
			ration file path	path must be setted in	tab of VM Resources
			must be setted.	the Cluster WebUI.	Properties in the Clus-
					ter WebUI, enter the
					path where the virtual
					machine configuration
					information is stored
					to [VM Configura-
					tion File Path]. And
					then click [Apply the
					Configuration File].
vm	Error	Othe	r Internal error	Another internal error	Memory or OS re-
			occured.	occurred.	sources may not be
					sufficient. Check them.

4.4 Details about monitor resource errors

4.4.1 Software RAID monitor resources

Module	Туре	Retu	rnMessage	Explanation	Solution
Type		Valu	e		
lmdw	Warning	101	Device=(%1): Bad disks(%2) are detected in mirror disk.	Some physical disks under the mirror disk are damaged and now have the [caution] sta- tus.	The mirror disk can be used but the damaged physical disks must be replaced.
lmdw	Warning	102 190	Internal error.err=%1	An internal error occurred.	There might not be enough memory space or OS resources. Check them.

Table 4.6 – continued from previous page

Module	Type	Retu	rnMessage	Explanation	Solution
Туре		Valu	e		
lmdw	Warning	102	Config file error.(err=%1)	The contents of the configuration data are incorrect.	Check whether the configuration data is correct.
		190		meorrect.	confect.
lmdw	Warning	190	Soft RAID mod-	The kernel module re-	-
			ule has a prob- lem. (err=%1)	lated to software RAID is faulty.	
lmdw	Warning	190	Options or parameters are invalid.	A command parameter error occurred.	Check whether the configuration data is correct.
lmdw	Warning	190	Failed to read config file.(err=%1)	The configuration file could not be read.	Check whether the configuration data is correct.
lmdw	Warning	191	Device=(%1): Mirror disk is in recovery process (%2).	The mirror disk is now in the [recovery] process.	-

4.4.2 IP monitor resources

Module	Туре	Retu	rnMessage	Explanation	Solution
Type		Valu	e		
ipw	Error	5	Ping was failed	The ping command has	The system may be un-
			by timeout.	failed due to a timeout.	der high load, or mem-
			IP=%s		ory or OS resources
					may not be sufficient.
					Check them.
ipw	Error	31	Ping cannot	The packet transmitted	Check whether the
			reach. (ret=%1)	by the ping command	ping command to
			IP=%2	has not arrived.	the corresponding IP
					address succeeds. If
					the command fails,
					check the status of the
					device that has the IP
					address or status of the
					network interface.
ipw	Warning	102	Ping was	The ping command has	Memory or OS re-
			failed. (ret=%1)	failed.	sources may not be
			IP=%2		sufficient. Check them.

Table 4.7 – continued from previous page

Module	Туре	Retu	rMessage	Explanation	Solution
Type		Valu	e		
ipw	Warning		Internal error.	Another internal error	Memory or OS re-
			(status=%1)	occurred.	sources may not be
		106			sufficient. Check them.
		108			
		to			
		121			
ipw	Warning	189	Internal error.	Monitoring of the IP	Memory or OS re-
			(status=%1)	monitor resource failed	sources may not be
				by time out.	sufficient. Check them.

4.4.3 Disk monitor resources

Module	Type	Retu	rnMessage	Explanation	Solution
Туре		Valu	e		
diskw	Error	12	Ioctl was failed.	Failed to control the	Check if the monitor-
			(err=%1) De-	device.	ing target disk is con-
			vice=%2		nected properly, the
					disk is powered on, or
					no other errors are oc-
					curred on the disk.
diskw	Error	14	Open was	The file could not be	
			failed. (err=%1)	opened.	Check whether a
			File=%2		directory that has the
					same name as the file
					exists, the monitoring
					target disk is
					connected properly,
					the disk is on, or other
					errors occurred on the
					disk.
					Memory or OS
					resources may not be
					sufficient. Check
					them.

Table 4.8 – continued from previous page

Module Type	Туре		rnMessage	Explanation	Solution
diskw	Error	14	<u>e</u>		
			Open was failed. (err=%1) Device=%2	Opening the device failed.	Check whether a directory that has the same name as the file exists, the monitoring target disk is connected properly, the disk is on, or other errors occurred on the disk. Memory or OS resources may not be sufficient. Check them.
diskw	Error	16	Read was failed. (err=%1) Device=%2	Reading from the device has failed.	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	18	Write was failed. (err=%1) File=%2	Writing to the file has failed.	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 re-
					sources may not be sufficient. Check them.
diskw	Error	41	SG_IO failed. (sg_io_hdr_t info:%1 SG_INFO_OK_M %2)	SG_IO has failed. IASK:	Check if the monitoring target disk is connected properly, the disk is powered on, or no other errors are occurred on the disk.
diskw	Error	49	Already bound for other. Rawdevice=%1 Device=%2	The RAW device has already been bound by another real device.	The set RAW device has already been bound by another real device. Change the RAW device name on the Cluster WebUI.

Table 4.8 – continued from previous page

Module	Туре		riMessage	Explanation	Solution
Type	71	Valu	_	L	
diskw	Error	55	Bind was failed. Rawdevice=%1 Device=%2	Bind failed.	Bind failed. Check the RAW device name on the Cluster WebUI.
diskw	Error	56	Lseek was failed by timeout. De- vice=%1	Lseek failed.	The possible cause is the heavily loaded sys- tem, insufficient mem- ory, or insufficient OS resources. Check if any of these exists.
diskw	Error	57	Fdatasync was failed by time-out. Device=%1	Fdatasync failed.	Check if the disk as a monitoring target is appropriately connected, is turned on, or has anything abnormal. The possible cause is the heavily loaded system, insufficient memory, or insufficient OS resources. Check if any of these exists.
diskw	Warning	101	Ioctl was failed by timeout. De- vice=%1	The device control failed due to timeout.	Check the disk to be monitored is properly connected, powered on, or does not have any problem. The system may be heavily loaded, memory or OS resources may not be sufficient. Check them.
diskw	Warning	101	Open was failed by timeout. File=%1	Opening the file failed due to timeout.	Check the disk to be monitored is properly connected, powered on, or does not have any problem.
diskw	Warning	101	Open was failed by timeout. De- vice=%1	Opening the device failed due to timeout.	The system may be heavily loaded, memory or OS resources may not be sufficient. Check them.

Table 4.8 – continued from previous page

Module	Туре		riMessage	Explanation	Solution
Type	.,,,,	Valu	_		
diskw	Warning	101	Read was failed by timeout. De- vice=%1	Failed to read from the device due to timeout.	Check the disk to be monitored is properly connected, powered on, or does not have any problem.
diskw	Warning	101	Write was failed	Writing to the file	The system may be heavily loaded, memory or OS resources may not be sufficient. Check them.
			by timeout. File=%1	failed due to timeout.	monitored is properly connected, powered on, or does not have any problem.
					The system may be heavily loaded, memory or OS resources may not be sufficient. Check them.
diskw	Warning	101	Bind was failed. Rawdevice=%1 Device=%2	Bind failed.	Bind failed. Check the RAW device name on the Cluster WebUI.
diskw	Warning	101	Stat was failed. (err=%1) De- vice=%2	Stat failed.	Stat failed. Check the device name on the Cluster WebUI.
diskw	Warning	101	Popen was failed. (err=%1)	Popen failed.	Popen failed. Memory or OS resources may not be sufficient. Check them.
diskw	Warning	101	Option was invalid.	The option is invalid.	Check the cluster configuration data.
		190			
diskw	Warning	101	Internal error. (status=%1)	An error other than the errors mentioned above has occurred.	Memory or OS resources may not be sufficient. Check them.
diskw	Warning	190	Parameter was invalid. File=%1	The specified file name is invalid.	Do not specify the file whose name starts with /dev. Specify a normal file.

Table 4.8 – continued from previous page

Module	Туре	Retu	rMessage		Explanation	Solution
Type		Valu	е			
diskw	Warning	190	Device	was	The specified real de-	Check the device name
			invalid.	De-	vice is invalid.	of the disk monitor re-
			vice=%1			source on the Cluster
						WebUI.
diskw	Warning	191	Ignored dis	sk full	A disk full error has	Check the usage of the
			error.		been ignored.	device.

4.4.4 PID monitor resources

Module	Туре	Retu	rnMessage	Explanation	Solution
Type		Valu	e		
pidw	Error	1	Process does not	The process does not	Process of the monitor-
			exist. (pid=%1)	exist.	ing target was cleared
					due to some error.
					Check them.
pidw	Warning	100	Resource %1	The resource is not	Check the cluster con-
			was not found.	found.	figuration data by us-
					ing the Cluster WebUI.
pidw	Warning	100	Internal error.	Another internal error	Memory or OS re-
			(status=%1)	occurred.	sources may not be
					sufficient. Check them.

4.4.5 User space monitor resources

Module	Туре	Retu	rMessage		Explanation	Solution
Туре		Valu	е			
userw	Error	1	Initialize (%1)	error.	An error was detected during process initialization.	Check if the driver depended on by the user mode monitor resources exists, or the rpm is installed. The
						driver or rpm differ depending on the monitor method.

4.4.6 Custom monitor resource

Module	Туре		rıMessage	Explanation	Solution
Type genw	Error	Valu 1	e Initialize error.	An error was detected	Memory or OS re-
			(status=%d)	while initialization.	sources may not be sufficient. Check them.
genw	Error	2	Termination code %d was returned.	An unexpected value was returned.	Check if the cluster configuration information is correct.
genw	Error	3	User was not superuser.	User was not root user.	Log in as root user.
genw	Error	4	Getting of config was failed.	Failed to get the cluster configuration information.	Check if the cluster configuration information exists.
genw	Error	5	Parameter was invalid.	The parameter is invalid.	Check if the cluster configuration information is correct.
genw	Error	6	Option was invalid.	The parameter is invalid.	Check if the cluster configuration information is correct.
genw	Error	7	Monitor Resource %s was not found.	The resoruce was not found.	Check if the cluster configuration information is correct.
genw	Error	8	Create process failed.	Create process failed.	Memory or OS resources may not be sufficient. Check them.
genw	Error	9	Process does not exist. (pid=%d)	The process did not exist.	Check if the process exists.
genw	Error	10	Process aborted. (pid=%d)	The process did not exist.	Check if the process exists.
genw	Error	11	Asynchronous process does not exist. (pid=%d)	The process did not exist.	Check if the process exists.
genw	Error	12	Asynchronous process aborted. (pid=%d)	The process did not exist.	Check if the process exists.
genw	Error	13	Monitor path was invalid.	The path is invalid.	Check if the cluster configuration information is correct.
genw	Error	other	s Internal error. (status=%d)	Another internal error occurred.	-

4.4.7 Multi target monitor resources

Module	Туре	Retu	rnMessage	Explanation	Solution
Туре		Valu	e		
mtw	Error	1	Option was in-	The parameter is in-	Check if the cluster
			valid.	valid.	configuration informa-
					tion is correct.
mtw	Error	2	User was not su-	User was not root user.	Log in as root user.
			peruser.		
mtw	Error	3	Internal error.	Another internal error	-
			(status=%d)	occurred.	

4.4.8 JVM monitor resources

Module	Type	Retu	rnMessage	Description	Solution
Type		valu	Þ		
jraw	Error	11	An error was de-	Java VM to be mon-	Check that the Java
			tected in access-	itored cannot be con-	VM to be monitored is
			ing the monitor	nected.	running.
			target.		
jraw	Error	12	JVM status		Based on the message,
			changed to	An error was detected	check the Java applica-
			abnormal. cause	in monitoring Java	tion that is running on
			= %1.	VM.	Java VM to be moni-
				%1: Error generation	tored.
				cause	
				GarbageCollection	
				JavaMemoryPool	
				Thread	
				WorkManagerQueue	
				WebOTXStall	
jraw	Warning	189	Internal error	An internal error has	Execute cluster sus-
			occurred.	occurred.	pend and cluster re-
					sume.

4.4.9 System monitor resources

Module	Туре	Retu	rnMessage	Description	Solution
Type		valu	e		
sraw	Error	11	Detected an error in monitor-	An error was detected when monitoring sys-	•
			ing system re- source	tem resources.	Check them.

4.4.10 Process resource monitor resource

Module	Туре	ReturMessage		Description	Solution
Type		value	P		
psrw	Error	11	Detected an er-	An error was detected	There may be an er-
			ror in monitor-	when monitoring Pro-	ror with the resources.
			ing process re-	cess resources.	Check them.
			source		

4.4.11 NIC Link Up/Down monitor resources

Module	Туре		rnMessage	Explanation	Solution
Туре		Valu	е		
miiw	Error	20	NIC %1 link	The NIC link has gone	Check whether the
			was down.	down.	LAN cable is con-
					nected properly.
miiw	Warning	110	Get address	The socket address of	Check whether the ker-
			information was	the IPv4 or IPv6 ad-	nel configuration sup-
			failed. (err=%1)	dress family could not	ports TCP/IP network-
				be obtained.	ing (IPv4 or IPv6).
miiw	Warning	111	Socket creation	The socket could not	Memory or OS re-
			was failed.	be created.	sources may not be
			(err=%1)		sufficient. Check them.
miiw	Warning	112	ioctl was	The control request to	
			failed. (err=%1)	the network driver has	Check whether the
			Device=%2	failed.	network driver
			Request=%3		supports control
					request %3.
					For details about the
					verified NIC and
					network driver, see
					"Monitor resource
					details" in the
					"EXPRESSCLUSTER
					X SingleServerSafe
					Configuration Guide".

Table 4.16 – continued from previous page

Module	Type	Retu	rnMessage	Explanation	Solution
Type		Valu	e		
miiw	Warning	113	MII was not	MII is not supported by	
			supported or	NIC or the monitored	For details about the
			no such device.	object does not exist.	verified NIC and
			Device=%1		network driver, see
					"Monitor resource
					details" in the
					"EXPRESSCLUSTER
					X SingleServerSafe
					Configuration Guide".
					If the monitored target
					does not exist, check
					the network interface
					name, such as by using
					ifconfig.
miiw	Warning	189	Internal error.	Another internal error	-
			(status=%d)	occurred.	
miiw	Warning	190	Option was in-	The option is invalid.	Check the configura-
			valid.		tion data by using the
					Cluster WebUI.
miiw	Warning	190	Config was in-	The configuration data	Check the configura-
			valid. (err=%1)	is invalid.	tion data by using the
			%2		Cluster WebUI.

4.4.12 VM monitor resources

Module	Type	Retu	rnMessage	Explanation	Solution
Type		Valu	e		
vmw	Error	1	initialize error	An error was detected	Memory or OS re-
			occured.	while initialization.	sources may not be
					sufficient. Check them.
vmw	Error	11	monitor success,	Stop of the virtual ma-	Check the status of the
			virtual machine	chine was detected.	virtual machine.
			is not running.		
vmw	Error	12	failed to get	Failed to get the status	Check if the virtual
			virtual machine	of the virtual machine.	machine exists.
			status.		
vmw	Error	13	timeout oc-	The monitoring timed	The OS may be highly
			cured.	out.	loaded. Check it.

4.4.13 Volume manager monitor resources

Module	Туре	Retu	rnMessage	Description	Solution
Type		valu	e		
volmgrw	Error	21	Command	%1 command failed.	The command failed.
			was failed.	The return value is %2.	Check the action status
			(cmd=%1,		of the volume manager.
			ret=%2)		
volmgrw	Error		Internal error.	Another internal error	-
		22	(status=%1)	occurred.	
		23			
volmgrw	Warning	190	Option was in-	The option is invalid.	Check the cluster con-
			valid.		figuration information
					on the Cluster WebUI.
volmgrw	Warning	191	%1 %2 is %3!	The status of the tar-	Check the status of the
				get (%2) of the volume	volume manager tar-
				manager (%1) trans-	get.
				ferred to %3.	
volmgrw	Warning	Othe	rsInternal error.	Another internal error	-
			(status=%1)	occurred.	

4.4.14 Process name monitor resources

Module	Туре	Retu	rnMessage	Description	Solution
Type		valu	e		
psw	Error	11	Process[%1 (pid=%2)] Down	Deletion of a monitored process has been detected.	Check whether the monitored process is running normally.
psw	Error	12	The number of processes is less than the specified minimum process count. %1/%2 (%3)	The number of started processes for the monitor target process is less than the specified minimum count.	Check whether the monitored process is running normally.
psw	Warning	100	Monitoring timeout	Monitoring has timed out.	The OS may be highly loaded. Check that.
psw	Warning	101 190	Internal error	An internal error has occurred.	Check the following possible causes: memory shortage or OS resource insufficiency.
psw	Warning	190	Initialize error	An error has been detected during initialization.	Check the following possible causes: memory shortage or OS resource insufficiency.

4.4.15 Monitoring option monitor resources

The monitoring option monitor resources use common messages. Module types differ per monitoring option monitor resource.

Monitoring Option Monitor Resource	Module Type
DB2 monitor resource	db2w
FTP monitor resource	ftpw
HTTP monitor resource	httpw
IMAP4 monitor resource	imap4w
MySQL monitor resource	mysqlw
NFS monitor resource	nfsw
ODBC monitor resource	odbcw
Oracle monitor resource	oraclew
POP3 monitor resource	pop3w
PostgreSQL monitor resource	psqlw
Samba monitor resource	sambaw
SMTP monitor resource	smtpw
SQL Server monitor resource	sqlserverw
Sybase monitor resource	sybasew
Tuxedo monitor resource	tuxw
Weblogic monitor resource	wlsw
Websphere monitor resource	wasw
WebOTX monitor resource	otxw

Module	Туре	Retu	riMessage	Explanation	Solution
Туре		Valu	e		
(see	Error	5	Failed to con-		Check the status of the
the list			nect to %1	Connecting to the	monitoring target.
above)			server. [ret=%2]	monitoring target has	
				failed.	
				The application name	
				is displayed in place of %1.	
				701.	
(see	Error	7	Failed to ex-		Check the configura-
the list			ecute SQL	The SQL statement	tion data by using the
above)			statement (%1).	could not be executed.	Cluster WebUI.
			[ret=%2]	The monitoring target	
				is displayed in place of	
				%1.	
(222	E	0	Failed to access		Charletha status of the
the list	Error	8	Failed to access with %1.	Data access with the	Check the status of the monitoring target.
above)			with 701.	monitoring target has	momtoring target.
above)				failed.	
				The monitoring target	
				is displayed in place of	
				%1.	

Table 4.21 – continued from previous page

Module	Туре	Retu	rMessage	Explanation	Solution
Type (see the list above)	Error	9	Detected error in %1.	The monitoring target is abnormal. The monitoring target is displayed in place of %1.	Check the status of the monitoring target.
(see the list above)	Warning	104	Detected function exception. [%1, ret=%2]	An error was detected. The monitoring target is displayed in place of %1.	Check the configuration data by using the Cluster WebUI. The OS might be heavily loaded. Check them.
(see the list above)	Warning	106	Detected authority error.	User authentication has failed.	Check the user name, password, and access permissions.
(see the list above)	Warning	111	Detected time- out error.	Communication with the monitoring target timed out.	The OS might be heavily loaded. Check them.
(see the list above)	Warning	112	Can not found install path. (install path=%1)	The install path could not be loaded from the specified location. The install path is displayed in place of %1.	Check the install path location.
(see the list above)	Warning	113	Can not found library. (lib-path=%1, errno=%2)	The library could not be loaded from the specified location. The library path is displayed in place of %1.	Check the library location.
(see the list above)	Warning	171	Detected a monitor delay in monitoring %1. (time-out=%2*%3 actual-time=%4 delay warning rate=%5)	A monitoring delay was detected in monitoring %1. The current timeout value is %2 (second) x %3 (tick count per second). The actual measurement value at delay detection is %4 (tick count) and exceeded the delay warning rate %5 (%).	Check the load status of the server on which a monitoring delay was detected and remove the load. If a monitoring timeout is detected, extend it.

Table 4.21 – continued from previous page

Module	Туре		rMessage	Explanation	Solution
Type	Typo	Valu	_		Colution
(see the list above)	Info	181	The collecting of detailed information triggered by monitor resource %1 error has been started (timeout=%2).	Collecting of detailed information triggered by the detection of a monitor resource \$1 monitoring error has started. The timeout is %2 seconds.	-
(see the list above)	Info	182	The collection of detailed information triggered by monitor resource %1 error has been completed.	Collecting of detailed information triggered by the detection of a monitor resource %1 monitoring error has been completed.	_
(see the list above)	Warning	183	The collection of detailed information triggered by monitor resource %1 error has been failed (%2).	Collecting of detailed information triggered by the detection of a monitor resource %1 monitoring error has failed. (%2)	-
(see the list above)	Warning	189	Internal error. (status=%1)	Internal error.	-
(see the list above)	Warning	190	Init error. [%1, ret=%2]	An error was detected during initialization. license, library, XML, share memory, or log is displayed where %1 is represented.	The OS might be heavily loaded. Check them.
(see the list above)	Warning	190	Get config information error. [ret=%1]	Failed to obtain the configuration data.	Check the configuration data by using the Cluster WebUI.
(see the list above)	Warning	190	Invalid parameter.	The configuration data of the Config or Policy file is invalid. The command parameter is invalid.	Check the configuration data by using the Cluster WebUI.

Table 4.21 – continued from previous page

Module Type	Туре	Retu Valu	r ı Message e	Explanation	Solution
(see the list above)	Warning	190	Init function error. [%1, ret=%2]	Initialize error occurred in the function. The executive function name is displayed in %1.	OS may be heavily loaded. Check the status of OS.
(see the list above)	Warning	190	User was not superuser.	The user does not have root privileges.	The user executing the operation might not have root privileges, or the memory or OS resources might be insufficient. Check them.
(see the list above)	Warning	190	The license is not registered.	The license is not registered.	Check whether the correct license is registered.
(see the list above)	Warning	190	The registration license overlaps.	The license you are attempting to register already exists.	Check whether the correct license is registered.
(see the list above)	Warning	190	The license is invalid.	The license is invalid.	Check whether the correct license is registered.
(see the list above)	Warning	190	The license of trial expired by %1.	The trial license has expired. The expiration date is displayed in place of %1.	-
(see the list above)	Warning	190	The license of trial effective from %1.	The date is not the starting date of the trial license. The starting date of the trial license is displayed in place of %1.	-

4.5 JVM monitor resource log output messages

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

4.5.1 JVM operation log

Message	Cause of generation	Action
Failed to write the %1\$s.stat.	Writing to the JVM statistics log has failed. %1\$s.stat: JVM statistics log file name	Check whether there is sufficient free disk space.
%1\$s: analyze finish[%4\$s]. state = %2\$s, cause = %3\$s	(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\$s: Name of the Java VM to be monitored %2\$s: Status of Java VM to be monitored (1=normal, 0=abnormal) %3\$s: Error generation location at abnormality occurrence %4\$s: 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.

Table 4.22 – continued from previous page

Message	Cause of generation	Action
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\$s: monitor thread can't connect to JVM.	The Java VM to be monitored could not be connected. %1\$s: Name of the Java VM to be monitored	Check that the Java VM to be monitored is running.
%1\$s: monitor thread can't get the JVM state.	The resource use amount could not be acquired from Java VM to be monitored. %1\$s: Name of the Java VM to be monitored	Check that the Java VM to be monitored is running.
%1\$s: JVM state is changed [abnormal -> normal].	The status of the Java VM to be monitored has changed from abnormal to normal. %1\$s: Name of the Java VM to be monitored	-
%1\$s: JVM state is changed [normal -> abnormal].	The status of the Java VM to be monitored has changed from normal to abnormal. %1\$s: Name of the Java VM to be monitored	Review the Java application that runs on the Java VM to be monitored.

Table 4.22 – continued from previous page

Table 4.22 – continued from previous page				
Message	Cause of generation	Action		
%1\$s: Failed to connect to JVM.	The Java VM to be monitored could not be connected. %1\$s: Name of the Java VM to be monitored	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.		
%1\$s: GARBAGE_COLLECTOR_MXBEAN_DOMAIN_TYPE is invalid.	GC information could not be acquired from the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.		
%1\$s: GarbageCollectorMXBean is invalid.	GC information could not be acquired from the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.		

Table 4.22 – continued from previous page

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

Table 4.22 – continued from previous page

Message	Cause of gener-	Action
	ation	
%1\$s: GC average time is too long. av = %6\$s, last.getCount = %2\$s, last.getTime = %3\$s, now.getCount = %4\$s, now.getTime = %5\$s.	The average GC execution time has exceeded the threshold in the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: GC generation count at last measurement %3\$s: Total GC execution time at last measurement %4\$s: GC generation count at this measurement %5\$s: Total GC execution time at this measurement %6\$s: Average of the GC execution time used from the last measurement to	Review the Java application that runs on the Java VM to be monitored.

Table 4.22 – continued from previous page

Message	Cause of generation	Action
%1\$s: GC average time is too long compared with the last connection. av = %6\$s, last.getCount = %2\$s, last.getTime = %3\$s, now.getCount = %4\$s, now.getTime = %5\$s.	After the Java VM to be monitored was reconnected, the average of the GC execution time has exceeded the threshold in the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: GC generation count at last measurement %3\$s: Total GC execution time at last measurement %4\$s: GC generation count at this measurement %5\$s: Total GC execution time at this measurement %5\$s: Average of the GC execution time used from the last measurement to this measurement	Review the Java application that runs on the Java VM to be monitored.

Table 4.22 – continued from previous page

Message	Cause of gener-	Action
	ation	
%1\$s: GC count is too frequently. count = %4\$s last.getCount = %2\$s, now.getCount = %3\$s.	The GC generation count has exceeded the threshold in the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: GC generation count at last measurement %3\$s: GC generation count at this measurement %4\$s: GC generation count from the last measurement to this measurement	Review the Java application that runs on the Java VM to be monitored.

Table 4.22 – continued from previous page

Message	Cause of gener-	Action
%1\$s: GC count is too frequently compared with the last connection. count = %4\$s last.getCount = %2\$s, now.getCount = %3\$s.	After the Java VM to be monitored was reconnected, the GC generation count has exceeded the threshold in the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: GC generation count at last measurement %3\$s: GC generation count at this measurement %4\$s: GC generation count from the last measurement to this measurement	Review the Java application that runs on the Java VM to be monitored.
%1\$s: RuntimeMXBean is invalid.	Information could not be acquired from the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.

Table 4.22 – continued from previous page

Message	Cause of generation	Action
%1\$s: Failed to measure the runtime stat.	Information could not be acquired from the Java VM to be monitored. %1\$s: 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\$s: MEMORY_MXBEAN_NAME is invalid. %2\$s, %3\$s.	Memory information could not be acquired from the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Memory pool name %3\$s: Memory name	Check whether the operating environment of the Java VM to be monitored is correct.
%1\$s: MemoryMXBean is invalid.	Memory information could not be acquired from the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.

Table 4.22 – continued from previous page

Message	Cause of generation	Action
%1\$s: Failed to measure the memory stat.	Memory information could not be acquired from the Java VM to be monitored. %1\$s: 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\$s: MemoryPool name is undefined. memory_name = %2\$s.	Memory information could not be acquired from the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Name of the Java memory pool to be measured	Check whether the operating environment of the Java VM to be monitored is correct.

Table 4.22 – continued from previous page

	Action
ation	
The Java memory pool free space has fallen below the threshold in the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Name of the Java memory pool to be measured %3\$s: Use amount of the Java memory pool %4\$s: Maximum usable amount of the Java memory pool %5\$s: Use rate of the Java memory pool	Review the Java application that runs on the Java VM to be monitored.
Thread information could not be acquired from the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
Thread information could not be acquired from the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
	The Java memory pool free space has fallen below the threshold in the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Name of the Java memory pool to be measured %3\$s: Use amount of the Java memory pool %4\$s: Maximum usable amount of the Java memory pool %5\$s: Use rate of the Java WM to be monitored. %1\$s: Name of the Java VM to be monitored from the Java VM to be monitored. Thread information could not be acquired from the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored.

Table 4.22 – continued from previous page

Message	Cause of generation	Action
%1\$s: Failed to measure the thread stat.	Thread information could not be acquired from Java VM to be monitored. %1\$s: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1\$s: Detect Deadlock. threads = %2\$s.	Thread deadlock has occurred in the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: ID of the deadlock thread	Review the Java application that runs on the Java VM to be monitored.
%1\$s: Thread count is too much(%2\$s).	The number of activated threads has exceeded the threshold in the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Number of activated threads at measurement	Review the Java application that runs on the Java VM to be monitored.

Table 4.22 – continued from previous page

Message	Cause of gener-	Action
Wessage	ation	Action
	alion	
%1\$s: ThreadInfo is null.Thread count = %2\$s.	Thread information could not be acquired in the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Number of activated threads at measurement	Check whether the operating environment of the version of the Java VM to be monitored is correct.
%1\$s: Failed to disconnect.	Disconnection from the Java VM to be monitored has failed. %1\$s: Name of the Java VM to be monitored	-
%1\$s: Failed to connect to WebLogicServer.	WebLogic Server to be monitored could not be connected. %1\$s: Name of the Java VM to be monitored	Review the Java application that runs on the WebLogic Server to be monitored.
%1\$s: Failed to connect to Sun JVM.	Java VM and WebOTX to be monitored could not be connected. %1\$s: Name of the Java VM to be monitored	Review the Java application that runs on the Java VM and WebOTX to be monitored.

190

Table 4.22 – continued from previous page

Message	Cause of gener-	Action
	ation	
Failed to open the %1\$s.	The JVM statistics log could not be output. %1\$s: 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.
%1\$s: Can't find monitor file.	No monitoring %1\$s: Name of the Java VM to be monitored	-
%1\$s: Can't find monitor file, monitor stopped[thread:%2\$s].	Monitoring stops. %1\$s: Name of the Java VM to be monitored %2\$s: Type of the measurement thread	-
%1\$s: Failed to create monitor status file.	An internal file could not be created. %1\$s: Name of the Java VM to be monitored	Check whether the disk free space and the maximum number of volume files are sufficient.
%1\$s: Failed to delete monitor status file.	An internal file could not be deleted. %1\$s: Name of the Java VM to be monitored	Check whether there is a problem with the hard disk.

Table 4.22 – continued from previous page

Message	Cause of generation	Action
%1\$s: com.bea:Type=ServerRuntime is invalid.	Information could not be acquired from the Java VM to be monitored. %1\$s: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1\$s: WorkManagerRuntimeMBean or ThreadPoolRuntimeMBean is invalid.	Information could not be acquired from the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored	Check whether the operating environment of the WebLogic Server to be monitored is correct.
%1\$s: Failed to measure the WorkManager or ThreadPool stat.	Information could not be acquired from the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored	Check whether the operating environment of the WebLogic Server to be monitored is correct.

Table 4.22 – continued from previous page

Mossago	Cause of gener-	Action
Message	ation	Action
	allon	
%1\$s: ThreadPool stat is invalid. last.pending = %2\$s, now.pending = %3\$s.	The number of waiting requests could not be measured in the thread pool of the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s:Number of waiting requests at last measurement %3\$s: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\$s: WorkManager stat is invalid. last.pending = %2\$s, now.pending = %3\$s.	The number of waiting requests could not be measured in the work manager of the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Number of waiting requests at last measurement %3\$s: Number of waiting requests at this measurement	Check whether the operating environment of the version of the WebLogic Server to be monitored is correct.

Table 4.22 – continued from previous page

Message Table 4.22 – continued from p	Cause of gener-	Action
Wessage	ation	Action
COLOR DE LA DESCRIPTION DE LA COLOR DE LA		D : 4 7
%1\$s: PendingRequest count is too much. count = %2\$s.	The number of waiting requests has exceeded the threshold in the thread pool of the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Number of waiting requests at this measurement	Review the Java application that runs on the WebLogic Server to be monitored.
%1\$s: PendingRequest increment is too much. increment = %4\$s%%, last.pending = %2\$s, now.pending = %3\$s.	The increment of the number of waiting requests has exceeded the threshold in the thread pool of the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Number of waiting requests at last measurement %3\$s: Number of waiting requests at this measurement %4\$s: Increment of the number of waiting requests from the last measurement to this measurement to	Review the Java application that runs on the WebLogic Server to be monitored.

Table 4.22 – continued from previous page

Message 4.22 – continued from pr	Cause of gener-	Action
	ation	
%1\$s: PendingRequest increment is too much compared with the last connection. increment = %4\$s, last.pending = %2\$s, now.pending = %3\$s.	After the WebLogic Server to be monitored was reconnected, the increment of the number of waiting requests has exceeded the threshold in the thread pool of the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Number of waiting requests at last measurement %3\$s: Number of waiting requests at this measurement %4\$s: Increment of the number of waiting requests from the last measurement to this measurement	Review the Java application that runs on the WebLogic Server to be monitored.
%1\$s: Throughput count is too much. count = %2\$s.	The number of requests executed per unit time has exceeded the threshold in the thread pool of the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Number of requests executed per unit time at this measurement	Review the Java application that runs on the WebLogic Server to be monitored.

Table 4.22 – continued from previous page

Message	Cause of generation	Action
%1\$s: Throughput increment is too much. increment = %4\$s, last.throughput = %2\$s, now.throughput = %3\$s.	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. %1\$s: Name of the Java VM to be monitored %2\$s: Number of requests executed per unit time at last measurement %3\$s: Number of requests executed per unit time at this measurement %4\$s: Increment of the number of requests executed per unit time from the last measurement to this measurement to this measurement	Review the Java application that runs on the WebLogic Server to be monitored.

Table 4.22 – continued from previous page

Message	Cause of gener-	Action
, and the second	ation	
%1\$s: Throughput increment is too much compared with	After the	Review the Java
the last connection. increment = %4\$s, last.throughput =	WebLogic Server	application that
%2\$s, now.throughput = %3\$s.	to be monitored	runs on the
	was reconnected,	WebLogic Server
	the increment of	to be monitored.
	the number of	
	requests executed	
	per unit time has	
	exceeded the	
	threshold in the	
	thread pool of the	
	WebLogic Server	
	to be monitored.	
	%1\$s: Name of	
	the Java VM to	
	be monitored	
	%2\$s: Number of	
	requests executed	
	per unit time at	
	last measurement	
	%3\$s: Number of	
	requests executed	
	per unit time at	
	this measurement	
	%4\$s: Increment	
	of the number of	
	requests executed	
	per unit time	
	from the last	
	measurement to	
	this measurement	

Table 4.22 – continued from previous page

Message	Cause of generation	Action
%1\$s: PendingRequest count is too much. appName = %2\$s, name = %3\$s, count = %4\$s.	The number of waiting requests has exceeded the threshold in the work manager of the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Application name %3\$s: Work manager name %4\$s: Number of waiting requests	Review the Java application that runs on the WebLogic Server to be monitored.

Table 4.22 – continued from previous page

Message	Cause of gener-	Action
	ation	, 1011011
%1\$s: PendingRequest increment is too much. appName =	The increment of	Review the Java
%2\$s, name = %3\$s, increment = %6\$s%%, last.pending =	the number of	application that
%4\$s, now.pending = %5\$s.	waiting requests	runs on the
	has exceeded the	WebLogic Server
	threshold in the	to be monitored.
	work manager of	
	the WebLogic	
	Server to be	
	monitored.	
	%1\$s: Name of	
	the Java VM to	
	be monitored	
	%2\$s:	
	Application name	
	%3\$s: Work	
	manager name	
	%4\$s: Number	
	of waiting	
	requests at last	
	measurement	
	%5\$s: Number	
	of waiting	
	requests at this	
	measurement	
	%6\$s: Increment	
	of the number of	
	waiting requests	
	from the last	
	measurement to	
	this measurement	

Table 4.22 – continued from previous page

Message	Cause of gener-	Action
INICOSUGE	ation	ACION
	ation	
%1\$s: PendingRequest increment is too much compared with the last connection. AppName = %2\$s, Name = %3\$s, increment = %6\$s, last.pending = %4\$s, now.pending = %5\$s.	After the WebLogic Server to be monitored was reconnected, the increment of the number of waiting requests has exceeded the threshold in the work manager of the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Application name %3\$s: Work manager name %4\$s: Number of waiting requests at last measurement %5\$s: Number of waiting requests at this measurement %6\$s: Increment of the number of waiting requests from the last measurement to this measurement	Review the Java application that runs on the WebLogic Server to be monitored.

Table 4.22 – continued from previous page

Message	Cause of gener-	Action
	ation	
%1\$s: Can't find WorkManager. appName = %2\$s, name = %3\$s.	The work manager which was set could not be acquired from the WebLogic Server. %1\$s: Name of the Java VM to be monitored %2\$s: Application name %3\$s: Work manager name	Review the setting of Target WebLogic Work Managers.
%1\$s: analyze of average start[%2\$s].	Analyzing of the average value has started. %1\$s: Name of the Java VM to be monitored %2\$s: Thread name	-
%1\$s: analyze of average finish[%2\$s].state = %3\$s.	Analyzing of the average value has been completed. %1\$s: Name of the Java VM to be monitored %2\$s: Thread name %3\$s: Status of the target to be monitored	-

Table 4.22 – continued from previous page

Message	Cause of generation	Action
%1\$s: Average of PendingRequest count is too much. count = %2\$s.	The average of the number of waiting requests has exceeded the threshold in the thread pool of the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Number of waiting requests at this measurement	Review the Java application that runs on the WebLogic Server to be monitored.
%1\$s: Average of Throughput count is too much. count = %2\$s.	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\$s: Name of the Java VM to be monitored %2\$s: Number of requests executed per unit time at this measurement	Review the Java application that runs on the WebLogic Server to be monitored.

Table 4.22 – continued from previous page

Message	Cause of generation	Action
%1\$s: Average of PendingRequest count is too much. AppName = %2\$s, Name = %3\$s, count = %4\$s.	The average of the number of waiting requests has exceeded the threshold in the work manager of the WebLogic Server to be monitored. %1\$s: Name of the Java VM to be monitored %2\$s: Application name %3\$s: Work manager name %4\$s: Number of waiting requests at this measurement	Review the Java application that runs on the WebLogic Server to be monitored.
Error: Failed to operate clpjra_bigip.[%1\$s]	%1\$s: Error code	Review the set- ting.
action thread execution did not finish. action is alive = %1\$s.	Execution of Command has timed out. %1\$s: Executable file name specified by Command	Forcibly terminate Command. Review Command timeout. Remove the cause of the timeout, such as a high load.

Table 4.22 – continued from previous page

Message	Cause of gener- ation	Action
%1\$s: Failed to connect to Local JVM. cause = %2\$s.	Failed to establish connection to JBoss. %1\$s: Monitor target name %2\$s: Detailed cause of the failure The detailed cause is one of the following Failed to found tool.jar, please set jdk's path for the java path Load tool.jar exception - Get Local JVM url path exception - Failed to get process name - Failed to connect to JBoss JVM.	Review Java Installation Path and Process Name. Specify JDK, instead of JRE, as Java Installation Path. Check whether JBoss has started.

4.5.2 JVM load balancer linkage log

Message	Cause of generation	Action
lbadmin command start.	Execution of the load balancer	-
	linkage command has started.	
lbadmin command finish.	Execution of the load balancer	-
	linkage command has been	
	completed.	
Into HealthCheck mode.	The health check function is en-	-
	abled.	
Into Weight mode.	The load calculation function of	-
	the Java VM to be monitored is	
	valid.	

Table 4.23 – continued from previous page

Message	Cause of generation	Action
message	- Sauce of generalien	7100011
The PID of lbadmin.jar is "%1".	ID of the process relating to the load balancer linkage %1: Process ID of lbadmin.jar	_
Thread wait stopped by Exception	Waiting for down judgment has been stopped.	-
Rename Command succeeded.	Renaming of the HTML file has been successful.	-
Rename Command failed.	Renaming of the HTML file has failed.	Check the HTML file name and HTML rename destination file name.
%1 doesn't exist.	The rename source HTML file does not exist. %1: HTML file name	Check the HTML file name.
%1 already exists.	The rename destination HTML file already exists. %1: HTML rename destination file name	Check the HTML rename destination file name.
Can't rename file:%1.	Renaming of the HTML file has failed. %1: HTML file name	Check the HTML rename destination file name.
The number of retries exceeded the limit.	The retry count for renaming the HTML file has exceeded the upper limit.	Check the HTML rename destination file name.
The percent of the load is "%1".	Load calculation for the Java VM to be monitored has been successful. %1: Load of Java VM to be monitored	-
stat log (%1) doesn't exist.	There is no JVM statistics log file. %1: JVM statistics log file name	Execute cluster suspend/cluster resume and then restart the JVM monitor resource.

Table 4.23 – continued from previous page

Message	Cause of generation	Action
stat log(%1:) cannot be opened for reading.	The JVM statistics log file could not be opened. %1: JVM statistics log file name	Execute cluster suspend/cluster resume and then restart the JVM monitor resource.
format of stat log (%1) is wrong.	The contents of the JVM statistics log file are invalid. %1: JVM statistics log file name	After deleting the JVM statistics log file, execute cluster suspend/cluster resume and then restart the JVM monitor resource.
Failed to get load of application server.	Data for load calculation could not be acquired from the JVM statistics log file.	Review whether the load calculation setting of the Java VM to be monitored is correct.
Can't find lock file(%1s*.stat.lck), maybe HA/JVMSaver did not start yet.	JVM monitor resource has not yet started. %1: Internal file name	Start the JVM monitor resource.

CHAPTER

FIVE

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CHAPTER

SIX

REVISION HISTORY

Edition	Revised Date	Description
1st	Apr 10, 2020	New manual
2nd	Jul 10, 2020	Corrected typographical errors.

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