

# **EXPRESSCLUSTER X SingleServerSafe 4.3 for Windows Operation Guide**

Release 1

**NEC Corporation** 

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**CHAPTER** 

**ONE** 

# **PREFACE**

# 1.1 Who Should Use This Guide

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

# 1.2 How This Guide Is Organized

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

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## 1.3 Terms Used in This Guide

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

The terms used in this guide are defined below.

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

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

Cluster resource A resource used in EXPRESSCLUSTER X SingleServerSafe

Cluster object A resource object used in EXPRESSCLUSTER X SingleServerSafe

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

# 1.4 EXPRESSCLUSTER X SingleServerSafe Documentation Set

The EXPRESSCLUSTER X SingleServerSafe manuals consist of the 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.

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# 1.5 Conventions

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

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

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

#### See also:

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

The following conventions are used in this guide.

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



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

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# 1.6 Contacting NEC

For the latest product information, visit our website below:

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

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# 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 service (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. Controlling reboot count (clpregctrl command)
- 2.19. Estimating the amount of resource usage (clpprer command)
- 2.20. Checking the process health (clphealthchk command)
- 2.21. Setting an action for OS shutdown initiated by other than cluster service (clpstdncnf 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.

# 2.2 EXPRESSCLUSTER commands

#### • Commands for construction

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

#### • Commands for showing status

Command	Explanation	Refer to
clpstat.exe	Displays the status and configuration data	2.3. Displaying the status (clpstat com-
	of EXPRESSCLUSTER X SingleServer-	mand)
	Safe.	
clphealthchk.exe	Check the process health.	2.20. Checking the process health
		(clphealthchk command)

#### • Commands for operation

Command	Explanation	Refer to
clpcl.exe	Starts, stops, suspends, or resumes the	2.4. Operating the service (clpcl com-
	service.	mand)
clpstdn.exe	Stops the service and shuts down a server.	2.5. Shutting down the server (clpstdn
		command)
clpgrp.exe	Starts and stops groups.	2.6. Operating groups (clpgrp command)
clptoratio.exe	Extends or displays the timeout values.	2.9. Adjusting time-out temporarily (clp-
		toratio command)
clpmonctrl.exe	Suspends or resumes monitor resources.	2.13. Controlling monitor resources (clp-
		monctrl command)
clprsc.exe	Suspends or resumes group resources.	2.14. Controlling group resources (clprsc
		command)
clpcpufreq.exe	Controls CPU frequency.	2.15. Controlling CPU frequency
		(clpcpufreq command)
clprexec.exe	Requests a server to execute a process.	2.17. Requesting processing to cluster
		servers (clprexec command)
clpregctrl.exe	Controls the reboot count limitation.	2.18. Controlling reboot count (clpregctrl
		command)

#### • Commands for logs

# **EXPRESSCLUSTER X SingleServerSafe 4.3 for Windows Operation Guide, Release 1**

Command	Explanation	Refer to
clplogcc.exe	Collects logs and OS information.	2.7. Collecting logs (clplogcc command)
clplogcf.exe	Changes and displays the log level and	2.10. Modifying the log level and size
	log output file size.	(clplogcf command)
clpperfc.exe	Displays cluster statistical information on	2.22. Displaying the cluster statistics in-
	a group or a monitor resource.	formation (clpperfc command)

#### · Commands for scripts

Command	Explanation	Refer to
clplogcmd.exe	Write this command in the script resource	2.12. Outputting messages (clplogcmd
	script to output messages to any destina-	command)
	tion.	

**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.

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

Command	Explanation	Refer to
clpprer.exe	Estimates the future value from the ten-	2.19. Estimating the amount of resource
	dency of the given resource use amount	usage (clpprer command)
	data.	

# 2.3 Displaying the status (clpstat command)

Displays the status and configuration data of EXPRESSCLUSTER X SingleServerSafe.

#### Command line

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

#### Description

Displays the status and configuration data of EXPRESSCLUSTER X SingleServerSafe.

#### Option

-s

#### None

Displays the status.

#### --long

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

-g

Displays groups.

-m

Displays the status of each monitor resource.

-i

Displays the overall configuration data.

--c1

Displays the configuration data.

--sv

Displays the server configuration information.

```
--grp [<grpname>]
```

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

```
--rsc [<rscname>]
```

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

```
--mon [<monname>]
```

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

#### --detail

Displays more detailed information on the setting.

#### Return Value

0	Success
251	Double Activation
Other than the above	Failure

#### Remarks

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

#### Notes

Run this command as a user with Administrator privileges .

The EXPRESSCLUSTER service must be activated on the server where you run this command.

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

#### Error Messages

Message	Cause/Solution
Log in as administrator.	Log in as a user with Administrator privileges.
Invalid configuration file. Create valid cluster 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 EXPRESSCLUSTER service is operat-
service is active	ing.
Invalid server status.	Check if the EXPRESSCLUSTER service is operat-
	ing.
Server is not active. Check if the cluster service is	Check if the EXPRESSCLUSTER service is operat-
active.	ing.
Invalid server name. Specify a valid server name in	Specify the valid server name in the cluster.
the cluster.	
Invalid heartbeat resource name. Specify a valid	Specify the valid heart beat resource name in the
heartbeat resource name in the cluster.	cluster.
Invalid network partition resource name. Specify a	Specify the valid network partition resolution re-
valid network partition resource name in the cluster.	source 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.	
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 EXPRESS-
the cluster service is stopped in the cluster.	CLUSTER service has stopped in the cluster.
Invalid parameter.	An invalid value may be specified to command argu-
	ment.

Table 2.7 – continued from previous page

Message	Cause/Solution
Internal communication timeout has occurred in the cluster server. If it occurs frequently, set the longer timeout.	A time-out occurred in the EXPRESSCLUSTER internal communication.  If time-out keeps occurring, set the internal communication time-out longer.
Internal error. Check if memory or OS resources are	Check if the memory or OS resource is sufficient.
sufficient.	
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 started.
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 service (clpcl command)

Operates the EXPRESSCLUSTER service.

#### Command line

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

#### Description

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

#### Option

-s

Starts the EXPRESSCLUSTER service.

-t

Stops the EXPRESSCLUSTER service.

-r

Restarts the EXPRESSCLUSTER service.

#### --return

Returns the EXPRESSCLUSTER service.

#### --suspend

Suspends the EXPRESSCLUSTER service.

#### --resume

Resumes the EXPRESSCLUSTER service.

```
-w <timeout>
```

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

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

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

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

#### --force

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

```
--apito timeout
```

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

When the --apito option is not specified, the command waits according to the value set for the internal communication timeout in the cluster property.

#### Return Value

0	Success
Other than 0	Failure

#### Remarks

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

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

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

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

#### Notes

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

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

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

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

Suspend and Resume

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

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

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

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

#### Error Messages

# **EXPRESSCLUSTER X SingleServerSafe 4.3 for Windows Operation Guide, Release 1**

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

## Table 2.8 – continued from previous page

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

# 2.5 Shutting down the server (clpstdn command)

Shuts down the server.

#### Command line

clpstdn [-r]

#### Description

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

#### Option

#### None

Servers are shut down.

-r

Shuts down and then reboots servers.

#### Return Value

0	Success
Other than 0	Failure

#### Remarks

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

#### Notes

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

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

#### Error messages

See "Operating the service (clpcl command)".

# 2.6 Operating groups (clpgrp command)

Operates groups.

#### Command line

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

#### Description

Starts and stops groups.

#### Option

#### **-s** [<grpname>]

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

#### -t [<grpname>]

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

#### --apito timeout

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

When the --apito option is not specified, the command waits according to the value set for the internal communication timeout in the cluster property.

#### Return Value

0	Success
Other than 0	Failure

#### Notes

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

The EXPRESSCLUSTER service must be running.

#### Error messages

Message	Cause/Solution
Log in as administrator.	Log in as a user with Administrator privileges.
Invalid configuration data. Create valid cluster 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 EXPRESSCLUSTER service is operat-
service is active.	ing.
Invalid server status. Check if the cluster service is	Check if the EXPRESSCLUSTER service is operat-
active.	ing.

Table 2.9 – continued from previous page

rable 2.9 – continue	
Message	Cause/Solution
Server is not active. Check if the cluster service is	Check if the EXPRESSCLUSTER .service is oper-
active.	ating.
Invalid server name. Specify a valid server name in	Specify the valid server name in the cluster.
the cluster.	
Connection was lost. Check if there is a server where	Check if there is any server on which the EXPRESS-
the cluster service is stopped in the cluster.	CLUSTER service has stopped in the cluster.
Invalid parameter.	The value specified as a command parameter may be
1	invalid.
Internal communication timeout has occurred in the	
cluster server. If it occurs frequently, set the longer	A time-out occurred in the EXPRESSCLUSTER
timeout.	internal communication.
	If time-out keeps occurring, set the internal
	communication time-out longer.
7 111 0 10	
Invalid server. Specify a server that can run and stop	
the group, or a server that can be a target when you	Server that starts and stops the group or to which the
move the group.	group is moved is invalid.
	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 timeout of the
time is timed out.	start-up wait time.
No operable group exists in the server.	Check if there is any group that is operable in the
	server which requested the process.
The group has already been started on the local	Check the status of the group by using the Cluster
server.	WebUI or the clpstat command.
The group has already been started on the other	•
server. To start/stop the group on the local server,	Check the status of the group by using the Cluster
use -f option.	WebUI or the clpstat command.
1	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.
	option.
The group has already been stopped.	Check the status of the group by using the Cluster
The group has arready been stopped.	WebUI or the cluster command.
Failed to start one or more resources. Check the sta-	Check the status of group by using the Cluster We-
tus of group.	bUI or the clostat command.  Cheek the status of group by using the Cluster We
Failed to stop one or more resources. Check the sta-	Check the status of group by using the Cluster We-
tus of group.	bUI or the clostat command.
The group is busy. Try again later.	The group is now being started or stopped. Wait for
	a while and try again.
An error occurred on one or more groups. Check the	Check the status of the group by using the Cluster
status of group.	WebUI or the clpstat command.
Invalid group name. Specify a valid group name in	Specify the valid name of a group in the cluster.
the cluster.	
Server is isolated.	The server has been suspended. The server is re-
	booted after it went down.
Some invalid status. Check the status of cluster.	The status is invalid. Check the status of the cluster.
Log in as administrator.	Check if the memory or OS resource is sufficient.
<u> </u>	Continued on payt page

Table 2.9 – continued from previous page

Message	Cause/Solution
Failed to migrate the group.	If the -l option is used, check whether the type of the
	specified group is "virtualmachine".
The specified group cannot be migrated.	Check the status of the group.
The specified group is not vm group.	Check if the type of the group is set to the virtual
	machine.
Migration resource does not exist.	Check if the virtual machine resource exists in the
	group.
Migration resource is not online.	Check if the virtual machine resource has already
	started.
Server is not in a condition to start group. Critical	Check the status of each server.
monitor error is detected.	
There is no appropriate destination for the group.	Check the status of each server.
Critical monitor error is detected.	

# 2.7 Collecting logs (clplogcc command)

Collects logs.

#### Command line

clplogcc [-t collect\_type] [-o path] [--local] [--evt event\_type ...]

#### Description

Collects logs and OS information.

#### Option

#### None

Logs are collected.

-t collect\_type

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

-o path

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

#### --local

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

--evt event\_type

Specifies the type of the event log to be collected.

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

If you specify none, no event log is collected.

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

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

#### Return Value

0	Success
Other than 0	Failure

#### Remarks

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

#### Notes

Run this command as a user with Administrator privileges.

#### Execution Result

For this command, the following processes are displayed:

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

The following results (server status) are displayed:

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

#### Error messages

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

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

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

	Type1	Type2	Type3	Type4	Type5	Type6
(1) Default collection information	<b>√</b>	<b>√</b>	<b>√</b>	n/a	n/a	n/a
(2) Event log					n/a	n/a

Table 2.13 – continued from previous page

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

Run this command from the command line as follows.

Example: When collecting logs using type 2

#### # clplogcc -t type2

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

Information to be collected by default

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

- Update log
- License Information
- · Configuration file
- · Policy file
- · Shared memory dump
- Local node status of EXPRESSCLUSTER (clpstat --local execution result)
- Host name and domain name information (hostname execution result)
- Network information (netstat execution result)
- IP routing table information (route print execution result)
- Process existing status (tasklist execution result)
- ipconfig (ipconfig execution result)
- Shared configuration of files (net share execution result)
- Session information (net session execution result)
- Windows firewall settings (netsh execution result)
- SNP (Scalable Networking Pack) setting (netsh execution result)
- Task schedule settings (schtasks execution result)

#### Event log

- Application log (AppEvent.Evt, Application.evtx, Application.txt)
- System log (SysEvent.Evt, System.evtx, System.txt)
- Security log (SecEvent.Evt, Security.evtx, Security.txt)

#### Windows Error Report

• \*\*\*.wer

#### User dump

• \*\*\*.\*dmp

#### Diagnostics report

• The result of running msinfo32.exe

#### Registry

- Registry information of the EXPRESSCLUSTER Server
  - HKLM\SOFTWARE\NEC\EXPRESSCLUSTER\Alert
  - HKLM\SOFTWARE\NEC\EXPRESSCLUSTER\MirrorList
  - HKLM\SOFTWARE\NEC\EXPRESSCLUSTER\RC
  - HKLM\SOFTWARE\NEC\EXPRESSCLUSTER\VCOM
  - Registry information of diskfltr
- Registry information of OS
  - HKLM\SYSTEM\CurrentControlSet\Services\Disk
  - HKLM\SYSTEM\CurrentControlSet\Control\Session Manager\DOS Devices

# **EXPRESSCLUSTER X SingleServerSafe 4.3 for Windows Operation Guide, Release 1**

- HKLM\SYSTEM\MountedDevices
- HKLM\SYSTEM\CurrentControlSet\Enum\SCSI
- HKLM\SYSTEM\CurrentControlSet\Enum\STORAGE
- HKLM\SYSTEM\CurrentControlSet\Services\symc8xx
- HKLM\SYSTEM\CurrentControlSet\Control\FileSystem

#### Scripts

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

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

#### ESMPRO/AC and ESMPRO/UPSC logs

Files collected by running the acupslog.exe command

#### HA logs

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

#### Mirror Statistics

This version does no collect.

#### **Cluster Statistics**

- Cluster Statistics
  - In perf\cluster

#### System statistics

- · System statistics
  - In perf\system

#### 2.7.2 Output paths of log files (-o option)

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

#### If not specifying -o option

Logs are output in tmp of installation path.

#### When the -o option is specified:

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

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

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

You can specify the type of the event log included in the information obtained at the log collection. Specify one or more text strings that represent event log types as shown in the following table after [--evt] option.

Event log type	Character string to specify
Application log	app
System log	sys
Security log	sec
No event log to be collected	none

Example) Collecting the system log and the security log

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

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

#### 2.7.4 Collecting information on emergency OS shutdown

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

Information to be collected is as follows:

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

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

# 2.8 Applying and backing up configuration data (clpcfctrl command)

### 2.8.1 Applying configuration data (clpcfctrl --push)

Applies the configuration data to servers.

#### Command line

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

#### Description

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

#### Option

#### --push

Specify this option when applying the data.

This option cannot be omitted.

-x

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

-w

Indicates that SJIS encoding is used for the configuration data file.

In general, it is not necessary to specify this option

-p

Specifies the number of the port used to transfer data.

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

#### --nocheck

Omits the check on the operation necessary to apply changes.

#### Return Value

0	Success
Other than 0	Failure

#### Notes

Run this command as a user with Administrator privileges.

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

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

Message	Solution
Please stop EXPRESSCLUSTER Server.	Stop the server.
Please suspend EXPRESSCLUSTER Server.	Suspend the server.

Table 2.15 – continued from previous page

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

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

#### Error messages

Message	Cause/Solution
Log in as administrator.	Log in as a user with Administrator privileges.
This command is already run.	This command has already been run.
invalid option.	This option is invalid. Check the option.
Invalid mode. Check ifpush orpull option is	Check ifpush is specified.
specified.	
Invalid host name. Server specified by -h option is	The server specified with -h is not included in con-
not included in the configuration	figuration data. Check if the specified server name or
	IP address is correct.
Failed to initialize the xml library. Check if memory	Check if the memory or OS resources are sufficient.
or OS resources are sufficient.	
Failed to load the configuration file. Check if mem-	Check if the memory or OS resources are sufficient.
ory or OS resources are sufficient.	
Failed to change the configuration file. Check if	Check if the memory or OS resources are sufficient.
memory or OS resources are sufficient.	
Failed to load the all.pol file. Reinstall the RPM clus-	Reinstall the EXPRESSCLUSTER Server.
ter.	
Failed to load the cfctrl.pol file. Reinstall the RPM	Reinstall the EXPRESSCLUSTER Server.
cluster.	
Failed to get the install path. Reinstall the RPM clus-	Reinstall the EXPRESSCLUSTER Server.
ter.	
Failed to initialize the trncl library. Check if memory	Check if the memory or OS resources are sufficient.
or OS resources are sufficient.	
Failed to connect to trnsv. Check if the other server	Accessing the server has failed. Check if the other
is active.	server has been started up.
Failed to get the list of node. Check if the server	Check if the server specified by -c is a cluster mem-
specified by -c is a member of the cluster.	ber.
File delivery failed. Failed to deliver the configura-	
tion data. Check if the other server is active and run	Delivering configuration data has failed. Check if
the command again.	other server(s) has been started.
	Run the command again after the server has started
	up.

Table 2.16 – continued from previous page

Message Cause/Solution		
Message	Cause/Solution	
Multi file delivery failed. Failed to deliver the con-		
figuration data. Check if the other server is active	Delivering configuration data has failed. Check if	
and run the command again.	other server(s) has been started.	
	Run the command again after the server has started	
	up.	
Failed to deliver the configuration data. Check if the		
other server is active and run the command again.	Delivering configuration data has failed. Check if	
	other server(s) has been started.	
	Run the command again after the server has started	
	up.	
Failed to upload the configuration file. Check if the	Delivering configuration data has failed. Check if	
other server is active and run the command again.	other server(s) has been started	
Canceled to deliver the configuration file since it	Canceled the delivery of the configuration data.	
failed to connect to one or more server. If you want	There are some servers that failed to connect. If	
to deliver the configuration file to servers that can be	you want to deliver the configuration data only to the	
connected, run the command again with "-force" op-	server that can be connected, run the command again	
tion.	by using theforce option.	
The directory "work" is not found. Reinstall the	Reinstall the EXPRESSCLUSTER Server.	
RPM.		
Failed to make a working directory.	Check if the memory or OS resources are sufficient.	
The directory does not exist.	Check if the memory or OS resources are sufficient.	
This is not a directory.	Check if the memory or OS resources are sufficient.	
The source file does not exist.	Check if the memory or OS resources are sufficient.	
The source file is a directory.	Check if the memory or OS resources are sufficient.	
The source directory does not exist.	Check if the memory or OS resources are sufficient.	
The source file is not a directory.	Check if the memory or OS resources are sufficient.	
Failed to change the character code set (EUC to	Check if the memory or OS resources are sufficient.	
SJIS).		
Failed to change the character code set (SJIS to	Check if the memory or OS resources are sufficient.	
EUC).		
Failed to allocate memory.	Check if the memory or OS resources are sufficient.	
Failed to change the directory.	Check if the memory or OS resources are sufficient.	
Failed to make a directory.	Check if the memory or OS resources are sufficient.	
Failed to remove the directory.	Check if the memory or OS resources are sufficient.	
Failed to remove the file.	Check if the memory or OS resources are sufficient.	
Failed to open the file.	Check if the memory or OS resources are sufficient.	
Failed to read the file.	Check if the memory or OS resources are sufficient.	
Failed to copy the file.	Check if the memory or OS resources are sufficient.	
Failed to create the mutex.	Check if the memory or OS resources are sufficient.	
Internal error. Check if memory or OS resources are	Check if the memory or OS resources are sufficient.	
sufficient.		
Failed to check server property. Check if the server	Check if the server name and the IP address of the	
name or ip addresses are correct.	configuration information are correctly set.	
Please stop the following resources.	Stop the resource of which the configuration has	
6	been changed.	
	been changed.	

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

Backs up the configuration data.

#### Command line

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

#### Description

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

#### Option

#### --pull

Specify this option when performing backup.

This option cannot be omitted.

 $-\mathbf{x}$ 

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

-w

Save the configuration data with character encoding, SJIS.

-p

Specifies the number of the port used to transfer data.

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

#### Return Value

0	Success
Other than 0	Failure

#### Notes

Run this command as a user with Administrator privileges.

#### Error messages

Message	Cause/Solution
Log in as administrator.	Log on as a user with Administrator privileges.
This command is already run.	This command has already been run.
invalid option.	The option is invalid. Check the option.
Invalid mode. Check ifpush orpull option is	Check ifpull is specified.
specified.	
Failed to initialize the xml library. Check if memory	Check if the memory or OS resources are sufficient.
or OS resources are sufficient.	
Failed to load the configuration file. Check if mem-	Check if the memory or OS resources are sufficient.
ory or OS resources are sufficient.	
Failed to change the configuration file. Check if	Check if the memory or OS resources are sufficient.
memory or OS resources are sufficient.	
Failed to load the all.pol file. Reinstall the cluster.	Reinstall the EXPRESSCLUSTER Server.
Failed to load the cfctrl.pol file. Reinstall the cluster.	Reinstall the EXPRESSCLUSTER Server.

Table 2.17 – continued from previous page

Message	Cause/Solution
Failed to get the install path. Reinstall the cluster.	Reinstall the EXPRESSCLUSTER Server.
Failed to initialize the trncl library. Check if memory	Check if the memory or OS resources are sufficient.
or OS resources are sufficient	j
Failed to connect to trnsv. Check if the other server	Accessing the server has failed. Check if other
is active.	server(s) has been started.
The directory "work" is not found. Reinstall the clus-	Reinstall the EXPRESSCLUSTER Server.
ter.	
Failed to make a working directory.	Check if the memory or OS resources are sufficient.
The directory does not exist.	Check if the memory or OS resources are sufficient.
This is not a directory.	Check if the memory or OS resources are sufficient.
The source file does not exist.	Check if the memory or OS resources are sufficient.
The source file is a directory.	Check if the memory or OS resources are sufficient.
The source directory does not exist.	Check if the memory or OS resources are sufficient.
The source file is not a directory.	Check if the memory or OS resources are sufficient.
Failed to change the character code set (EUC to	Check if the memory or OS resources are sufficient.
SJIS).	
Failed to change the character code set (SJIS to	Check if the memory or OS resources are sufficient.
EUC).	
Failed to allocate memory.	Check if the memory or OS resources are sufficient.
Failed to change the directory.	Check if the memory or OS resources are sufficient.
Failed to make a directory.	Check if the memory or OS resources are sufficient.
Failed to remove the directory.	Check if the memory or OS resources are sufficient.
Failed to remove the file.	Check if the memory or OS resources are sufficient.
Failed to open the file.	Check if the memory or OS resources are sufficient.
Failed to read he file.	Check if the memory or OS resources are sufficient.
Failed to write the file.	Check if the memory or OS resources are sufficient.
Failed to copy the file.	Check if the memory or OS resources are sufficient.
Failed to create the mutex.	Check if the memory or OS resources are sufficient.
Internal error. Check if memory or OS resources are	Check if the memory or OS resources are sufficient.
sufficient.	

# 2.9 Adjusting time-out temporarily (clptoratio command)

Extends or displays the current timeout ratio.

#### Command line

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

## Description

Temporarily extends the following timeout values:

- · Monitor resource
- · Alert synchronous service
- WebManager service

The current timeout ratio is displayed.

#### Option

-r ratio

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

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

 $-\mathbf{t}$  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 specified becomes ineffective.

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

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

Monitor resource timeout

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

#### Notes

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

The EXPRESSCLUSTER service must be running when you execute this command.

When you set the timeout ratio, make sure to specify the extension period. However, if you set "1" for the timeout ratio, you cannot specify the extension period.

You cannot specify a combination such as "2m3h," for the extension period.

# Examples

```
Example 1: Doubling the timeout ratio for three days # clptoratio -r 2 -t 3d

Example 2: Setting back the timeout ratio to original # clptoratio -i

Example 3: Referring to the current timeout ratio # clptoratio -s

present toratio : 2
```

The current timeout ratio is set to 2.

## Error messages

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

# Table 2.18 – continued from previous page

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

# 2.10 Modifying the log level and size (clplogcf command)

Modifies and displays log level and log output file size.

#### Command line

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

## Description

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

Displays the currently specified values.

## Option

-t

Specifies a module type whose settings will be changed.

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

Specifies a log level.

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

1, 2, 4, 8, 16, 32

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

-s

Specifies the size of a file for log output.

The unit is byte.

# None

Displays the entire configuration information currently set.

#### Return Value

0	Success
Other than 0	Failure

## Remarks

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

#### Notes

Run this command as a user with Administrator privileges.

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

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

# Examples

**Example 1:** Modifying the pm log level

# clplogcf -t pm -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 messages

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

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

Type	Module	Description
alert	clpaltinsert.exe	Alert
apicl	clpapicl.dll	API client library
apicl_rc	clpapicl.dll	API client library
apisv	clpapisv.dll	API server
appli	clpappli.dll	Application resource
appliw	clpappliw.dll	Application monitor resource
armdrive	armdrive.exe	Drive letter setting command
bwctrl	clpbwctrl.exe	Cluster activation synchronization wait processing control com-
		mand
cfchk	clpcfchk.exe	Command to check the cluster configuration
cfctrl	clpcfctrl.exe	Cluster generation, cluster information and backup command
cl	clpcl.exe	Cluster startup and stop command
clpdnld	clpdnld.exe	Downloader
clpgetsvcstat	clptrnsv.exe	Transaction server
clpshmstat	clpshmstat.dll	Node status management library
clsv	clpclsv.dll	Client server
commcl	clpcommcl.dll	Common communication client library
cpufreq	clpcpufreq.exe	CPU frequency control command
diskperf	clpdiskperf.dll	Disk performance log library
diskutil	clpdiskutil.dll	Mirror disk/disk shared library
diskw	clpdiskw.dll	Disk RW monitor resource
down	clpdown.exe	Server shutdown command

Table 2.20 – continued from previous page

		- continued from previous page
Туре	Module	Description
event	clpevent.dll	Event log
exping	clpexpng.dll	PING execution management
genw	genw.dll	Custom monitor resource
grp	clpgrp.exe	Group startup, stop, move, and migration command
hblog	clplanhb.dll	Kernel-mode LAN heartbeat resource
healthchk	clphealthchk.exe	Process health check command
ibsv	clpibsv.exe	Information Base service
ipw	clpipw.dll	IP monitor resource
lankhb	clplanhb.dll	Kernel-mode LAN heartbeat resource
lcns	clplcns.dll	License library
ledctrl	clpledctrl.exe	Chassis identify control command
logc	clplogcc.exe	Log collection library
logcc	clplogcc.exe	Collect logs command
logcf	clplogcf.exe	Log level and size modification command
logcmd	clplogcmd.exe	Alert producing command
mail	clpmail.exe	Mail Notification
monctrl	clpmonctrl.exe	Monitor resource control command
mgmtagt	clpmgtmib.dll	Library for SNMP Service
miiw	clpmiiw.dll	NIC Link Up/Down monitor resource
monctrl	clpmonctrl.exe	Monitor resource control command
mrw	clpmrw.dll	Message receive monitor resource
mtw	clpmtw.dll	Multi target monitor resource
nm	clpnm.exe	Node map management
oldapi	clpoldapi.exe	Compatible API
oldapi_cnf	clpoldapi.exe	Compatible API
oldapi_evt	clpoldapi.exe	Compatible API
oldapi_if	clpoldapi.exe	Compatible API
oldapi_sts	clpoldapi.exe	Compatible API
perfc	clpperfc.exe	Command to display cluster statistical information
pm	clppm	Process management
pmsvc	clppmsvc.exe	Process management
psw	clppsw.dll	Process name monitor resource
ptun	clpptun.dll	Parameter tuning
ptunlib	clpptun.dll	Parameter tuning
rc	clprc.exe	Group and group resource management
rc_ex	clprc.exe	Group and group resource management
regctrl	clpregctrl.exe	Reboot count control command
resdllc	clpresdllc.dll	Resource control library
rm	clprm.dll	Monitor management
script	clpscript.dll	Script resource
scrpc	clpscrpc.exe	Script
scrpl	clpscrpl.ece	Script
sem	clpsem.dll	Semaphore library
service	clpservice.dll	Service resource
servicew	clpservicew.dll	Service monitor resource
shmcm	clpshmcm.dll	Shared memory library
shmevt	clpshmevt.dll	Event library
shmnm	clpshmnm.dll	Shared memory library
shmrm	clpshmrm.dll	Shared memory library
511111111	cipsiiiiiii.uii	Continued on post page

Table 2.20 – continued from previous page

Туре	Module	Description
snmpmgr	clpsnmpmgr.dll	SNMP trap reception library
starup	clpstartup.exe	Startup
stat	clpstat.exe	Status display command
stdn	clpstdn.exe	Cluster shutdown command
toratio	clptoratio.exe	Time-out ratio modification command
trncl	clptrncl.dll	Transaction library
trap	claptrap.exe	SNMP trap command
trnreq	clptrnreq.exe	Inter-cluster processing request command
rexec	clprexec.exe	External monitoring link processing request command
trnsv	clptrnsv.exe	Transaction server
userw	clpuserw.dll	User space monitor resource
webalert	clpaltd.exe	Alert synchronization
webmgr	clpwebmc.exe	WebManager service
xml	xlpxml.dll	XML library
vm	clpvm.dll	VM resource
vmw	clpvmw.dll	VM monitor resource
vmctrl	clpvmctrl.dll	VMCtrl library

# Monitoring Agent Types that can be specified for the -t option

Туре	Module	Description
db2w	clp_db2w.dll	DB2 Monitor (Database Agent)
ftpw	clp_ftpw.dll	FTP Monitor (Internet Server Agent)
httpw	clp_httpw.dll	HTTP Monitor (Internet Server Agent)
imap4w	clp_imap4w.dll	IMAP4 Monitor (Internet Server Agent)
jra	clpjrasvc.exe	JVM Monitor (Java Resource Agent)
jraw	clpjraw.dll	JVM Monitor (Java Resource Agent)
odbcw	clp_odbcw.dll	ODBC Monitor (Database Agent)
oraclew	clp_oraclew.dll	Oracle Monitor (Database Agent)
otxw	clp_otxw.dll	WebOTX Monitor (Application Server Agent)
pop3w	clp_pop3w.dll	POP3 Monitor (Internet Server Agent)
psqlw	clp_psqlw.dll	PostgreSQL Monitor (Database Agent)
smtpw	clp_smtpw.dll	SMTP Monitor (Internet Server Agent)
sqlserverw	clp_sqlserverw.dll	SQL Server Monitor (Database Agent)
sra	clpsraserviceproc.ex	System Monitor/Process resource monitor (System Resource
		Agent)
sraw	clpsraw.dll	System Monitor (System Resource Agent)
psrw	clppsrw.dll	Process resource monitor(System Resource Agent)
tuxw	clp_tuxw.dll	Tuxedo Monitor (Application Server Agent)
wasw	clp_wasw.dll	Websphere Monitor (Application Server Agent)
wlsw	clp_wlsw.dll	Weblogic Monitor (Application Server Agent)

# 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.

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 <sup>12</sup>
End date	End date of valid period <sup>12</sup>

## • Status

Status of the license

Status	Explanation
valid	valid
invalid	invalid
unknown	unknown
inactive	Before valid period <sup>12</sup>
expired	After valid period <sup>12</sup>

<sup>&</sup>lt;sup>1</sup> Displayed in the case of the fixed term license

<sup>&</sup>lt;sup>2</sup> Displayed in the case of the license of trial version

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.

**-** -1

Deletes all the registered licenses of the trial version.

**–** -а

Deletes all the registered licenses.

-q

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

```
--reregister licensefile...
```

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

## Return Value

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

## Example of a command entry for registration

Registering the license interactively

```
# clplcnsc -i
```

- Product Version/Product Version (Fixed Term)
  - Select a product division.

```
Selection of License Version

1. Product Version

2. Trial Version

e. Exit

Select License Version. [1, 2, or e (default:1)] ...
```

- Enter a serial number.

Enter serial number [ Ex. XXXXXXXX000000] ...

- Enter a license key.

- Trial Version
  - Select a product division.

```
Selection of License Version

1. Product Version

2. Trial Version

e. Exit

Select License Version. [1, 2, or e (default:1)] ...
```

- Enter a user name.

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

- Enter a license key.

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

- · Specify a license file
  - # clplcnsc -i c:\tmp\licensefile
- 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

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

## • for deleting the license

```
# 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 Administrator user.

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

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

#### Error messages

Message	Cause/Solution
Processed license num (success : %d, error : %d).	The number of processed licenses (success:%d, error:%d)  If error is not 0, check if the license information is correct.
Command succeeded.	The command ran successfully.
Command failed.	The command did not run successfully.
Log in as administrator.	Log on as the Administrator user.
Invalid cluster configuration data. Check the cluster	The cluster configuration data is invalid. Check the
configuration information.	cluster configuration data by using the Cluster We-
	bUI.
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.
The license is not registered.	The license has not been registered yet.

Table 2.24 – continued from previous page

Message	Cause/Solution
Could not open the license file. Check if the license	Input/Output cannot be done to the license file.
file exists on the specified path.	Check to see if the license file exists in the specified
	path.
Could not read the license file. Check if the license	Input/Output cannot be done to the license file.
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 destination	license file may be corrupted. Check it with the file
from where the file is sent.	sender.
The cluster configuration data may be invalid or not	The cluster configuration data may be invalid or not
registered.	registered. Check the configuration data.
Failed to terminate the library. Check if memory or	Check to see if the memory or OS resource is suffi-
OS resources are sufficient.	cient.
Failed to register the license. Check if the entered	Check to see if the entered license information is cor-
license information is correct.	rect.
Failed to open the license. Check if the entered li-	Check to see if the entered license information is cor-
cense 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	Check to see if the memory or OS resource is suffi-
sufficient.	cient.
	I I

# 2.12 Outputting messages (clplogcmd command)

Registers the specified message with Alert logs.

#### Command line

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

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

## Description

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

Messages are produced in the following format:

[ID] message

#### Option

-m message

Specifies a message. This option cannot be omitted. The maximum size of message is 498 bytes. You may use alphabets, numbers, and symbols<sup>3</sup>.

## --alert

#### --mail

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

This parameter can be omitted. The alert will be the output destinations when the parameter is omitted. For more information on output destinations, see "Directory structure of EXPRESSCLUSTER" in "The system maintenance information" in the "EXPRESSCLUSTER X Maintenance Guide".

-i ID

Specify message ID.

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

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

```
& | < >
```

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

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

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

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

<sup>&</sup>lt;sup>3</sup> Notes on using symbols in the message:

-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 administrator privilege.

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

## Examples of command execution

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

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

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

**Example 2**: When specifying message, output destination, event ID, and level (output destination is mail): When the following is written in the Script resource script, the message is sent to the mail address set in the **Cluster Properties**. For more information on the mail address settings, see "Alert Service tab" in "Cluster properties" in "Parameter details" in the "EXPRESSCLUSTER X Reference Guide".

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

The following information is sent to the mail destination:

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

# 2.13 Controlling monitor resources (clpmonctrl command)

Controls the monitor resources.

#### Command line

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

#### Description

Suspends or resumes monitor resources.

## Option

#### -s, --suspend

Suspends monitoring

## -r, --resume

Resumes monitoring

## -c, --clear

Initializes the recovery operation count.

#### -v, --view

Displays the recovery operation count.

#### -e, --error

Enables dummy failure. Be sure to specify a monitor resource name with the -m option.

#### -n, --normal

Disables dummy failure. When a monitor resource name is specified with the -m option, the function is disabled only for the resource. When the -m option is omitted, the function is disabled for all monitor resources.

### -m, --monitor

Specifies a monitor resource to be controlled.

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

## -w, --wait

Waits for control monitoring on a monitor resource basis. (in seconds)

This option can be omitted. The default value 5 is set when the option is omitted.

#### Return Value

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 EXPRESSCLUSTER service is suspended
Monitoring control wait timeout
Duplicated activation
Other internal error

#### Remarks

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

#### Notes

Run this command as a user with the administrator privilege.

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

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

In the case of a monitor resource of which monitor timing is "Active", if a target resource stops temporarily in the active status, and then the target resource or the group which the target resource belongs to is activated, the monitor resource which has been stopped temporarily cannot detect an error. This is because the monitor resource does not start monitoring.

The following are examples of the case described above:

- 1. Stops an application monitor that is monitoring application resource temporarily.
- 2. Reactivate the application resource or the group that the application resource belongs to.

This reactivation procedure applies both manual and automatic when a monitor resource detects an error and reactivates an application by the recovery operation.

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

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

#### Error Messages

Message	Causes/Solution
Command succeeded.	The command ran successfully.
You are not authorized to run the command. Log in	You are not authorized to run this command. Log in
as Administrator.	as a user with Administrator privileges.
Initialization error. Check if memory or OS re-	Check if the memory or OS resource is sufficient.
sources are sufficient.	,
Invalid cluster configuration data. Check the cluster	The cluster configuration data is invalid. Check the
configuration information.	cluster configuration data by using the Cluster WebUI.
Monitor resource is not registered.	The monitor resource is not registered.
Specified monitor resource is not registered. Check	
the cluster configuration information.	The specified monitor resource is not registered.
	Check the cluster configuration data by using the Cluster WebUI.
The cluster has been stopped. Check the active status	
of the cluster service by using the command such as	The cluster has been stopped.
ps command.	Check the activation status of the
	EXPRESSCLUSTER service by using the ps
	command.
The cluster has been suspended. The cluster service	The EXPRESSCLUSTER service has been sus-
has been suspended. Check activation status of the	pended. Check the activation status of the EX-
cluster service by using a command such as the ps	PRESSCLUSTER service by using a command such
command.	as ps command.
Waiting for synchronization of the cluster. The clus-	1
ter is waiting for synchronization. Wait for a while	Synchronization of the cluster is awaited.
and try again.	Try again after synchronization of the cluster is
	completed.
	Completed.
Monitor %1 was unregistered, ignored. The speci-	
fied monitor resources %1is not registered, but con-	There is an unregistered monitor resource in the
tinues processing. Check the cluster configuration	specified monitor resources, but it is ignored and the
data.	process is continued
	Check the cluster configuration data by using the
	Cluster WebUI.
	%1: Monitor resource name
	701. MOUNTOI TESOUTCE HAINE
The command is already executed. Check the execu-	The command has already been run. Check the status
tion state by using the "ps" command or some other	by using the ps command.
command.	of some the potential and
Internal error. Check if memory or OS resources are	Check if the memory or OS resource is sufficient.
sufficient.	2 22 22 22 22 22 22 22 22 22 22 22 22 2

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

Туре	Suspending/Resume	Reset Recovery Count	Dummy Failure Possibil-
			ity
appliw	✓	✓	✓
diskw	✓	✓	✓

Table 2.26 – continued from previous page

Туре	Suspending/Resume	Reset Recovery Count	Dummy Failure Possibil-
''		,	ity
ipw	✓	✓	<b>√</b>
miiw	✓	✓	✓
mtw	✓	✓	✓
servicew	✓	✓	✓
genw	✓	✓	✓
vmw	✓	✓	n/a
mrw	✓	✓	n/a
db2w	✓	✓	✓
ftpw	✓	✓	✓
httpw	✓	✓	✓
imap4w	✓	✓	✓
odbcw	✓	✓	✓
oraclew	✓	✓	✓
pop3w	✓	✓	✓
psqlw	✓	✓	✓
smtpw	✓	✓	✓
sqlserverw	✓	✓	✓
tuxw	✓	✓	✓
wasw	✓	✓	✓
wlsw	✓	✓	✓
otxw	✓	✓	✓
jraw	✓	✓	✓
sraw	✓	✓	✓
psrw	✓	✓	✓
userw	✓	✓	✓
psw	✓	✓	✓

# 2.14 Controlling group resources (clprsc command)

Controls group resources

#### Command line

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

## Description

This command starts and stops group resources.

## Option

-s Starts group resources.

-t

Stops group resources.

-f

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

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

--apito timeout

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

When the --apito option is not specified, the command waits according to the value set for the internal communication timeout in the cluster property.

## Return Value

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

#### Notes

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

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

## Error Messages

Message	Causes/Solution
Log in as Administrator.	Run this command as a user with Administrator priv-
	ileges.

Table 2.27 – continued from previous page

Message  Causes/Solution The cluster configuration information is not correct. Invalid cluster configuration data. Check the cluster configuration information.  Invalid option.  Could not connect server. Check if the cluster service is active.  Invalid server status. Check if the cluster service is active.  Invalid server status. Check if the cluster service is active.  Invalid server status. Check if the cluster service is active.  Invalid server name. Specify a valid server name in the cluster.  Connection was lost. Check if there is a server where the cluster service is stopped in the cluster.  Connection was lost. Check if there is a server where the cluster service is stopped in the cluster.  Connection was lost. Check if there is a server where the cluster service is stopped in the cluster.  Internal communication timeout bas occurred in the cluster service is stopped in the cluster.  Internal communication timeout has occurred in the cluster service is busy. Try again later.  The group resource is busy. Try again later.  An error occurred on group resource. Check the status of group resource.  Could not start the group resource. Try it again after the other server is started, or after the Wait Synchronization time is timed out.  No operable group resource exists in the server.  The group resource has already been started on the local server.  The group resource has already been started on the other server. To start the group resource on the local server.  The group resource has already been started on the local server.  The group resource has already been started on the local server.  The group resource has already been started on the local server.  The group resource has already been started on the local server.  The group resource has already been started on the local server.  Check the group resource status by using the Cluster WebUI or clpstat command.  Soph the group resource status by using the Cluster WebUI or clpstat command.  Check the group resource status by using the Cluster WebUI or clpstat	Table 2.27 – continued from previous page		
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No operable group resource exists in the server.  The group resource has already been started on the local server.  The group resource has already been started on the other server. To start the group resource on the local server, stop the group resource.  The group resource has already been started on the other server, stop the group resource on the local server.  Stop the group to start the group resources on the local server.  The group resource has already been stopped.  Check the group resource status by using the Cluster WebUI or clpstat command.  Stop the group to start the group resources on the local server.  Check the group resource status by using the Cluster WebUI or clpstat command.	the other server is started, or after the Wait Synchro-	out, then start the group resources.	
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The group resource has already been started on the local server.  The group resource has already been started on the other server. To start the group resource on the local server, stop the group resource.  Stop the group resource status by using the Cluster WebUI or clpstat command.  Stop the group to start the group resources on the local server.  The group resource has already been stopped.  Check the group resource status by using the Cluster WebUI or clpstat command.  Check the group resource status by using the Cluster WebUI or clpstat command.	No operable group resource exists in the server.		
local server.  The group resource has already been started on the other server. To start the group resource on the local server, stop the group resource.  Stop the group to start the group resources on the local server.  The group resource has already been stopped.  The group resource has already been stopped.  Check the group to start the group resources on the local server.  Check the group resource status by using the Cluster WebUI or clpstat command.		_ <del>*</del>	
The group resource has already been started on the other server. To start the group resource on the local server, stop the group resource.  Stop the group to start the group resources on the local server.  The group resource has already been stopped.  Check the group resource status by using the Cluster WebUI or clpstat command.  Check the group resource status by using the Cluster WebUI or clpstat command.			
other server. To start the group resource on the local server, stop the group resource.  Stop the group to start the group resources on the local server.  The group resource has already been stopped.  Check the group resource status by using the Cluster WebUI or clpstat command.			
server, stop the group resource.  Stop the group to start the group resources on the local server.  The group resource has already been stopped.  Check the group resource status by using the Cluster WebUI or clpstat command.			
Stop the group to start the group resources on the local server.  The group resource has already been stopped.  Check the group resource status by using the Cluster WebUI or clpstat command.		webU1 or cipstat command.	
local server.  The group resource has already been stopped.  Check the group resource status by using the Cluster WebUI or clpstat command.	server, stop the group resource.	Stop the group to start the group resources on the	
The group resource has already been stopped.  Check the group resource status by using the Cluster WebUI or clpstat command.			
WebUI or clpstat command.	The group resource has already been stopped		
-	The group resource has arready occir stopped.		
	Failed to start group resource. Check the status of	-	
group resource. WebUI or clpstat command.			
Failed to stop resource. Check the status of group Check the group resource status by using the Cluster		-	
resource. WebUI or clpstat command.			
Depending resource is not offline. Check the status Because the status of the depended group resource	Depending resource is not offline. Check the status	_	
of resource. is not offline, the group resource cannot be stopped.		is not offline, the group resource cannot be stopped.	
Stop the depended group resource or specify the -f			
option.		-	

# Table 2.27 – continued from previous page

Mossago	Causes/Solution
Message	
Depending resource is not online. Check the status	Because the status of the depended group is not on-
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 group	The group resource is not registered.
resource name in the cluster.	
Server is isolated.	The server is suspended. (Rebooting after down)
Internal error. Check if memory or OS resources are	Not enough memory space or OS resource. Check if
sufficient.	there is enough space.
Server is not in a condition to start resource. Critical	Check the status of the server.
monitor error is detected.	

# 2.15 Controlling CPU frequency (clpcpufreq command)

Controls CPU frequency.

#### Command line

clpcpufreq --high clpcpufreq --low clpcpufreq -i clpcpufreq -s

## Description

This command 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.

- high The CPU frequency is at its highest.
- low The CPU frequency has been decreased because the CPU is in the power-saving mode.

#### Return Value

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

## Remarks

If the **Use CPU Frequency Control** check box is not selected in the **Extension** tab settings in **Cluster Properties**, this command results in an error.

#### Notes

This command must be executed by a user with the administrator 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 Administrator.	Log in as a user with Administrator privileges.
This command is already run.	This command has already been run.
Invalid option.	This option is invalid. Check the option.

Table 2.28 – continued from previous page

Message	Cause/Solution
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 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.
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.
Failed to create the mutex.  Internal error. Check if memory or OS resources are sufficient.	Check if the memory or OS resource is 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. The maximum number of IP addresses you can specify is 32.

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 (within 30 characters) 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. The minimum value is 5 seconds. If the -w option is not specified, it waits for 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 administrator privilege.

It is required that EXPRESSCLUSTER for Windows of internal version 10.02 or later, or EXPRESSCLUSTER for Linux of internal version 2.0.2\_1 or later is set up in the server which executes this command and the server with the IP address specified by -h.

## Examples

# Example 1: When performing a failover on the group having the appli1 resource of another cluster

```
# clptrnreq -t GRP_FAILOVER -h 10.0.0.1,10.0.0.2 -r appli1
GRP_FAILOVER 10.0.0.1: Success
GRP FAILOVER 10.0.0.2: Success
```

# 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.bat
EXEC_SCRIPT 10.0.0.1: Success
```

## Error messages

Message	Cause/solution
Log in as Administrator.	Log in as a user with Administrator privileges.
Invalid option.	The command line option is invalid. Specify the correct option.
All servers are busy. Check if this com-	This command may be run already. Check it.
mand is already run.	
Internal error. Check if memory or OS	Check if the memory or OS resource is sufficient.
resources are sufficient.	
Command timeout	The cause may be heavy load on OS and so on. Check this.
Failed to obtain the list of nodes.	Failed to obtain the list of nodes.
Specify a valid server name in the cluster.	Specify a valid IP address.
Could not connect to all data transfer	Could not connect to all IP addresses specified. Check the IP
server. Check if the server has started up.	addresses and the status of the target server.
Could not connect to the data transfer	Could not connect to the IP address specified. Check the IP
server. Check if the server has started up.	address and the status of the target server.
GRP_FAILOVER IP: Group that speci-	Failover process is not performed because the group to which
fied resource (resource_name) belongs to	the specified resource belongs is not started on the target server.
is offline.	
EXEC_SCRIPT IP: Specified script (	
script_file ) does not exist.	The script does not exist on the specified server.
	Check it.
EXEC_SCRIPT IP: Specified script	The specified script could not be executed.
(script_file) is not executable.	
	Check that execution is permitted.
request_code IP : This server is not per-	The server that executed the command does not have permis-
mitted to execute clptrnreq.	sion. Check that the server is registered to the connection re-
	striction IP list of Cluster WebUI.
request_code IP : REQEST_TYPE failed	
in execute.	The execution processing of the request type failed.
	(Either of a present request type Failover or Script is specified.

# 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 --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

```
--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/trnreq folder, which is in the folder where EXPRESSCLUSTER is installed, on each server specified using -h.

#### --notice

Sends an error message to the EXPRESSCLUSTER server.

Specify a message reception monitor resource name for mrw\_name.

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

#### --clear

Requests changing the status of the message reception monitor resource from "Abnormal" to "Normal." Specify a message reception monitor resource name for *mrw\_name*.

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

-h IP Address

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

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

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

```
-k category[.keyword]
```

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

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

```
-p port_number
```

Specify the port number.

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

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

-o logfile\_path

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

The file contains the log of one command execution.

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

-w timeout

Specify the command timeout time. The default, 180 seconds, is used if this option is not specified. A value from 5 to 999 can be specified.

#### Return Value

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

#### Notes

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

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

- = EXPRESSCLUSTER X3.0 or later must be installed.
- = EXPRESSCLUSTER must be running. (When an option other than --script is used)
- = mrw must be set up and running. (When the --notice or --clear option is used)

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

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

## Examples

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

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

**Example 2:** This example shows how to issue an error message to EXPRESSCLUSTER server 1 (10.0.0.1): \* mrw1 set, *category*: earthquake, *keyword*: scale3

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

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

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

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

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

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

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

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

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

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

### Error Messages

Message	Cause/solution
Success	-
Invalid option.	Check the command argument.
Could not connect to the data transfer	Check whether the specified IP address is correct and whether
servers. Check if the servers have started	the server that has the IP address is running.
up.	
Could not connect to all data transfer	Check whether the specified IP address is correct and whether
server.	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 com-	This command might already be running.
mand is already run.	
Group(%s) is offline.	Check the processing result on the server that received the re-
	quest.
Group that specified resource(%s) be-	Check the group status.
longs to is offline.	
Specified script(%s) does not exist.	Check if the specified script exist.
Specified resource(%s) is not exist.	Check the resource name or monitor resource name.
Specified resource(Category:%s, Key-	Check the resource name or monitor resource name.
word:%s) is not exist.	
Specified group(%s) does not exist.	Check the group name.

# Table 2.30 – continued from previous page

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

# 2.18 Controlling reboot count (clpregctrl command)

Controls reboot count limitation.

### Command line

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

## Description

Displays or initializes the reboot count on a server.

## Option

### -g, --get

Displays reboot count information.

## -c, --clear

Initializes reboot count.

-t type

Specifies the type to initialize the reboot count. The type that can be specified is rc or rm

**-r** registry

Specifies the registry name. The registry name that can be specified is *haltcount*.

# Return Value

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

#### Notes

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

## Examples

• Display of reboot count information

```
# clpregctrl -g
****************

type : rc
registry : haltcount
comment : halt count
kind : int
value : 0
default : 0
```

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

The reboot count is initialized in the following examples.

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

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

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

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

#### Error Messages

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

# 2.19 Estimating the amount of resource usage (clpprer command)

Estimates the future value from changes in the resource usage amount written to the input file and outputs the result to a file. It can also be used to check the result of threshold judgment for estimated data.

#### Command line

clpprer -i <inputfile> -o <outputfile> [-p <number>] [-t <number> [-1]]

#### Description

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

## Option

-i <inputfile>

The clpprer command 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.

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 need to configure system monitor resources for the cluster configuration.)

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. You need to have an input file, written in the following format, for the resource usage amount for which you want to estimate a result.

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

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

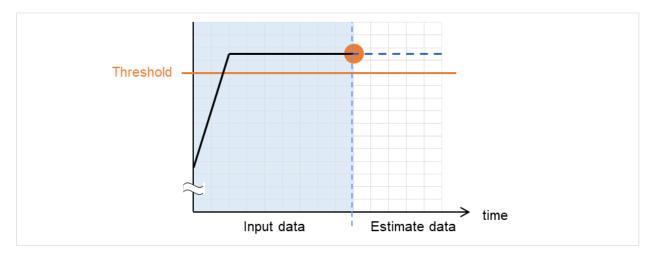


Fig. 2.1: Error detection in the input data

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.

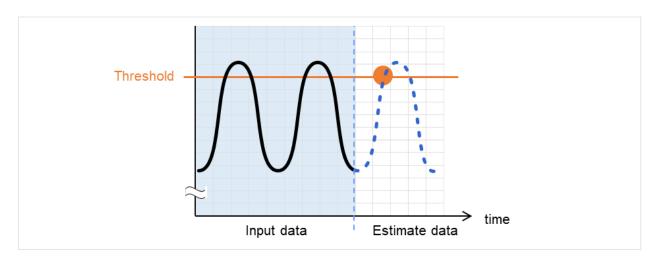


Fig. 2.2: Error detection in the estimate data

## When no threshold error is detected:

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.

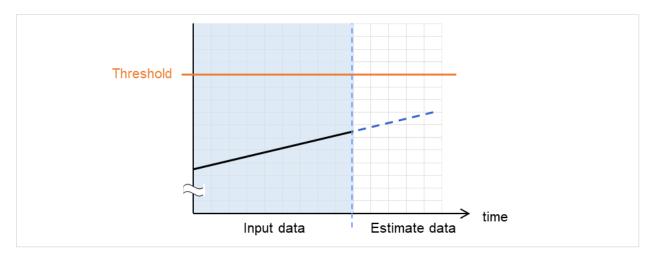


Fig. 2.3: When no threshold error is detected

# When the -l option is used:

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

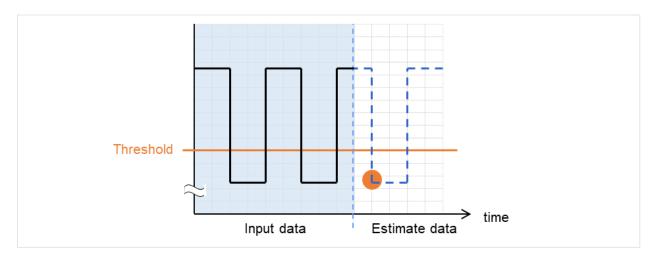


Fig. 2.4: Use of the -1 option

#### Examples

If you use a file written in the specified format and run the clpprer command, you can output the estimate result to a file and check it.

## 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

```
2012/06/14 10:03:00,11.5

2012/06/14 10:04:00,12.0

2012/06/14 10:05:00,12.5

2012/06/14 10:06:00,13.0

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

:
```

If you set a threshold for option, you can check the result of threshold judgment for estimate data 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 = _{-} _{-}12.5
```

# Error Messages

Message	Causes/Solution
Normal state.	As a result of threshold judgment, no data exceeding the thresh-
	old is detected.
Detect over threshold. datetime = %s,	As a result of threshold judgment, data exceeding the threshold
data = %s, threshold = %s	is detected.

Table 2.32 – continued from previous page

Message	Causes/Solution
Detect under threshold. datetime = %s,	As a result of threshold judgment with the -l option, data less
data = %s, threshold = %s	than the threshold is detected.
License is nothing.	The license for the valid System Resource Agent is not regis-
	tered. 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 option, 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 insufficiency.
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	The date of the input data is not of the correct format. Check to
YYYY/MM/DD HH:MM:SS]	see the data.
Invalid date format. Not sorted in ascend-	Input data is not arranged in ascending order of date and time.
ing order.	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	The number of input data items exceeds the maximum value
number of data is %s.	(500). Reduce the number of data items.
Input number of data is smaller than rec-	
ommendable 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.

# 2.20 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 <param>
  - <param>
    - pm

Checks the health of pm.

- rc
- Checks the health of rc.
- rm

Checks the health of rm.

– nn

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

# **EXPRESSCLUSTER X SingleServerSafe 4.3 for Windows Operation Guide, Release 1**

```
# clphealthchk
pm OK
rc OK
{\tt rm} \ {\tt OK}
nm OK
Example 2: When clprc is stalled
# clphealthchk
pm OK
rc NG
rm OK
nm OK
# clphealthchk -t rc
rc NG
Example 3: When the cluster has been stopped
# clphealthchk
The cluster has been stopped
```

#### Remarks

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

#### Notes

Run this command as a user with Administrator privileges.

## Error Messages

Message	Cause/Solution					
Log in as Administrator.	Log in as a user with Administrator privileges.					
Initialization error. Check if memory or OS 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.					
The cluster has been stopped.	The cluster has been stopped.					
The cluster has been suspended.	The cluster has been suspended.					
This command is already run.	The command has already been started.					
Internal error. Check if memory or OS resources are	Check to see if the memory or OS resource is suffi-					
sufficient.	cient.					

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

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

#### Command line

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

## Description

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

### Option

```
-e [time]
```

Waits for cluster services to be stopped when OS shutdown is initiated by other than cluster service.

You can specify a timeout value in minutes (A value between 1 to 1440 can be specified).

It is necessary to specify the timeout value at first execution.

From the second execution on, if you don't specify the timeout value, the current value is used.

-d

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

-v

shows the current setting.

#### Return Value

0	Success
Other than 0	Failure

#### Notes

Run this command as a user with Administrator privileges.

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

## Example of command execution

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

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

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

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

# **EXPRESSCLUSTER X SingleServerSafe 4.3 for Windows Operation Guide, Release 1**

Timeout : 30 min

# 2.22 Displaying the cluster statistics information (clpperfc command)

the clipperfc 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	C onfiguration information load error
4	C onfiguration information load error
5	Initialization error
6	Internal error
7	I nternal communication initialization error
8	I nternal communication connection error
9	I nternal communication processing error
10	T arget group check error
12	Timeout error

### Example of Execution

When displaying the median value of the group start time:

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

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

# **EXPRESSCLUSTER X SingleServerSafe 4.3 for Windows Operation Guide, Release 1**

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

# 2.23 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
```

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.

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

#### Error Messages

# **EXPRESSCLUSTER X SingleServerSafe 4.3 for Windows Operation Guide, Release 1**

Message	Cause/Solution
Log in as Administrator.	Log in as an Administrator user.
Invalid option.	Specify a valid option.
Could not opened the configuration file. Check if the	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 cautions on using EXPRESSCLUSTER X SingleServerSafe, as well as the known problems and how to prevent them.

This chapter covers:

• 3.1. After starting operating EXPRESSCLUSTER X SingleServerSafe

# 3.1 After starting operating EXPRESSCLUSTER X SingleServerSafe

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

## 3.1.1 Restrictions during recovery operation

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

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

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

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

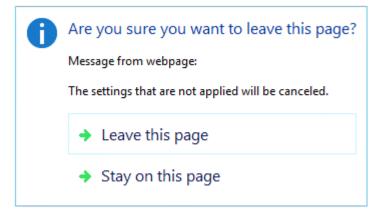
# 3.1.2 Executable format files and script files not described in the command reference

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

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

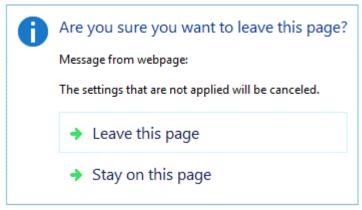
## 3.1.3 Notes on the Cluster WebUI

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



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

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



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

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

# 3.1.4 EXPRESSCLUSTER Disk Agent service

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

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

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

#### **Monitor Resource**

Following resource has issues with UAC.

#### **Oracle Monitor Resource**

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

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

# 3.1.6 Screen display of application resource / script resource

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

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

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

- Network Initialization complete wait time
  You can configure this setting in **Timeout** tab of **Cluster Properties**. If NIC initialization is completed within timeout, the cluster service starts up.
- ARMDELAY command (armdelay.exe)
   The cluster service starts up after the time that you set with the command from OS startup.

For more details of above setting and command, please refer to the "Legacy Feature Guide" for EXPRESSCLUSTER  $\mathbf{X}$ 

# 3.1.8 EXPRESSCLUSTER service login account

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

## 3.1.9 Monitoring the EXPRESSCLUSTER resident process

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

### 3.1.10 JVM monitor resources

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

## 3.1.11 System monitor resources, Process resource monitor resource

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

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

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

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

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

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

#### See also:

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

-> Using an Interactive Service

## **CHAPTER**

# **FOUR**

# **ERROR MESSAGES**

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

## This chapter covers:

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

# 4.1 Messages during setup

Module Type	Error Message	Solution
setup	Previous version of EXPRESS-	Uninstall the previous version of EXPRESSCLUSTER,
	CLUSTER is installed. Up-	and then try installing again.
	grading from this version is not	
	supported. Install after unin-	
	stalling the previous version of EXPRESSCLUSTER.	
catun	The SNMP service is running.	Select Yes to stop the SNMP service automatically and
setup	You need to stop the SNMP ser-	continue the installation. Or, select No to cancel the
	vice before you perform unin-	installation, manually stop the SNMP service and then
	stallation. Do you want to stop	perform installation again.
	the SNMP service now?	
setup		
	Setup has failed.	- Check the system requirements, setup procedures and
	Error code : xxx	notes described in the manual, and make sure they are followed.
		- If other application is running, terminate it.
		- Install again after restarting the OS.
		- Instan again after restarting the OS.
setup		
	Setup has failed(xxx).	- Check the system requirements, setup procedures and
	Error code : xxx	notes described in the manual, and make sure these
	Please reboot the system and	requirements are followed.
	try again.	- If other application is running, terminate it.
		- Install again after starting the OS again.
setup	Unsupported environment.	Install in the environment where the system requirements are met.
setup	Cannot perform uninstallation	Stop all EXPRESSCLUSTER services, and then per-
1	because there is one or more	form uninstallation.
	EXPRESSCLUSTER services	
	still running. Stop all EX-	
	PRESSCLUSTER services be-	
	fore you restart uninstallation.	
setup	Failed to start the installer. (errode: xxx)	Chack the system requirements, setup procedures and
	icoue. xxx)	- Check the system requirements, setup procedures and notes described in the manual, and make sure they are
		followed.
		- If other application is running, terminate it.
		- The installer file may be corrupted or missing. Check
		it.
setup		
	Internal error.	- Check the system requirements, setup procedures and
	(xxx)	notes described in the manual, and make sure they are
		followed.
		- If other application is running, terminate it.

# 4.2 Messages reported by event log and alert

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

Log Name	How to refer	File Name
Alert	Output to the Alert Logs of the	alertlog.alt
	Cluster WebUI. Logs can be col-	
	lected by using the log collec-	
	tion tool.	
Event log	Output to the Event Viewer (ap-	
	plication log) of the OS. Col-	AppEvent.Evt
	lect logs by using the log col-	SysEvent.Evt
	lection tool. The source of the	
	event is "EXPRESSCLUSTER	
	X." Logs can be collected by us-	
	ing the log collection tool. Note	
	because they are collected in	
	the binary format with the file	
	names in the right column, it is	
	necessary to open the files us-	
	ing Event Viewer in the environ-	
	ment where EXPRESSCLUS-	
	TER is set up to refer to the in-	
	formation.	
User log	These are the logs with text for-	userlog.{00 - 02}.log
	mat, in which detail information	
	is recorded. They are output in	
	the "userlog.{00 - 02}.log" file	
	in the log folder of the logs col-	
	lected by using the log collec-	
	tion tool.	

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

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

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

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

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

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

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

In the table below, each number indicates the following:

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

Module	Event		t Messages	Description	Solution	1	2	3	4	5	6	7	8
Type nm	Type Information	ID 1	The server %1 has been started.	Server up	-	0	O						
nm	Information	2	The server %1 has been stopped.	Server down	Server down was detected. Remove the failures of the server and then return the server to the cluster.	O	O		0	0	O	O	0
nm	Information	3	The resource %2 of the server %1 has been started.	Resource up	-			0					
nm	Error	4	The resource %2 of the server %1 has an error.	Resource abnormally	An error of the resource was detected. Refer to the event logs of the appropriate resource.			O					
nm	Information	5	The resource %2 of the server %1 has been recovered to the normal status.	Resource recover	-			0					
nm	Error	6	The resource %2 of the server %1 is unknown.	Resource unknown	Check the cluster configuration data.	0	O					O	
nm	Error	7	Network partition was detected. Shut down the server %1 to protect data.	Network partition detected	No heartbeat resources can be used. Make sure there is no error in the network adapter and the network is correctly connected.	0	O	O			O	O	
nm	Error	8	An error occurred while confirming the network partition. Shut down the server %1.	It was not possible to check for a network partition.	Refer to the event logs to check whether an error has occurred in a resource.	0	o	О			O	O	

Table 4.3 – continued from previous page

Module	Event	Fven	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID	Wicosages	Description	Colution	'	_	٥	7	3	٥	′	Ü
nm	Error	9	An error occurred in confirming the network partition. To avoid failover on multiple servers, the server %1 suspended	Failover hold	Refer to the event logs to check whether an error has occurred in a resource.	O	O	0			0	0	
nm	Information	10	failover.  The server %1 canceled the pending failover.	Failover hold cancel	-	О	O	O					
nm	Error	11	Shut down the server %1. (reason:%2)	Server shut- down	No heartbeat resources can be used. Make sure there is no error in the network adapter and the network is correctly connected.	0	0				0	O	
nm	Error	12	Cluster service will be stopped. (reason:%1)	Cluster service stopping	Check the cause following the message.	0	0					O	
nm	Warning	13	The combination of the network partition resources is invalid. (server name:%1)	NP resource combination error	Check the cluster configuration data.	0	0					0	
nm	Error	14	The status of heartbeat %1 is abnormal.	Heartbeat abnormally	Make sure there is no error in the network adapter and the network is correctly connected.	O	O				O	O	
nm	Information	15	The heartbeat %1 has been recovered to the normal status.	Heartbeat recovered	-	0	0			20.00			

Table 4.3 – continued from previous page

Module	Event	Evon	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID	i wessages	Description	Solution	'	_	J	7	5	٥	'	O
nm	Error	16	The network	Network	Refer to the	0	0				0	0	
11111	Litoi	10	partition %2 of	partition	event logs to		U				U	U	
			the server %1	abnormally	check whether								
			has an error.	abiliormany	an error has								
			nas an citor.		occurred in a								
					resource.								
nm	Information	17	The network	Network parti-	-	0	0						
11111	information	17	partition %2	tion recovered									
			of the server	lion recovered									
			%1 has been										
			recovered to										
			the normal										
			status.										
nm	Error	18	Failed to start	Resource start	Refer to the	О	o				О	О	
			the resource	failed	event logs to								
			%1. Server		check whether								
			name:%2		an error has								
					occurred in a								
					resource.								
nm	Information	19	Waiting for	Waiting for	-	О	o						
			servers to start	servers to start									
			up has been	up has been									
			canceled.	canceled.									
nm	Error	20	Network par-	Network parti-	No heartbeat	О	О	О					
			tition was	tion detected	resources can								
			detected. Shut		be used. Make								
			down the		sure there is								
			server %1 for		no error in								
			the cluster ser-		the network								
			vice to protect		adapter and								
			data.		the network								
					is correctly								
	_				connected.								
nm	Error	21	An error oc-	It was not pos-	Refer to the	0	О	О					
			curred when	sible to check	event logs to								
			checking for	for a network	check whether								
			a network	partition.	an error has								
			partition. Shut		occurred in a								
			down the		resource.								
			server %1 for										
			the cluster ser-										
			vice to protect										
			data.										

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID	oooagoo	2000			_		-			•	
nm	Error	22	Network partition was detected. Execute action(%1) on the server %2 for the cluster service to protect data.	Network partition	No heartbeat resources can be used. Make sure there is no error in the network adapter and the network is correctly connected.	O	O	O					
nm	Error	23	An error occurred when checking for a network partition. Execute action(%1) on the server %2 for the cluster service to protect data.	Can not net- work partition resolution	Refer to the event logs to check whether an error has occurred in a resource.	O	0	O					
nm	Error	24	Execute action(%1) on the server %2. (reason:%3)	Can not net- work partition resolution	No heartbeat resources can be used. Make sure there is no error in the network adapter and the network is correctly connected.	O	O	O					
nm	Warning	25	The NP resolution process at the cluster startup is disabled.	Network partition resolution disabled	The NP resolution process at the cluster startup is disabled.	0	0	0					
pm	Information	501	Cluster service has been started properly.	Cluster service started	-	O	0	O					
pm	Information	502	Cluster service is shutting down.	Cluster service shutting down	-	0	0	0					
pm	Error	510	Cluster service has already been started.	Cluster service already started	Check the status of cluster service.	0	0	0				O	

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID		2000		'	_		<b>'</b>		9	•	J
pm	Error	511	Fatal error has occurred in the cluster service.	Critical error in cluster service	The service is not run by a user with required privilege or the system may not be able to operate properly.	0	0	0	0	0		O	O
pm	Error	512	An error is detected in xml library.	problem de- tected in xml library	The system may not be able to operate properly.	o	o	0				0	
pm	Error	513	An error is detected in configuration file.	problem de- tected in configuration file	Check the cluster configuration data.	О	О	0	О	О		O	0
pm	Error	514	Configuration file does not exist.	Configuration file not exists	Upload the cluster configuration data.	O	O	O				O	
pm	Error	515	My host name is not found in configuration file.	my name not found in configuration file	Check the cluster configuration data.	O	O	O				O	
pm	Error	520	%1 process terminated abnormally.	process exit abnormally	The system may not be able to operate properly. The abend of the nm process, which does not affect the business operation, prevents you from stopping the cluster. To recover from it, restart the OS by using Cluster WebUI or the clpdown command.	0	0	0	0	0		0	0

Table 4.3 – continued from previous page

NA L L -				nunuea irom pre		-	_	_	4	_	_	-	_
Module	Event		t Messages	Description	Solution	1	2	3	4	5	6	1	8
Туре	Туре	ID											
pm	Error	521	The cluster	Rc process exit	Deactivation	0	О	О				О	
			service process	with error	of group re-								
			returned an		sources may								
			error. (halting		be failed. Take								
			system)		appropriate								
					action by								
					following the								
					group resource								
					message.								
pm	Error	522	An error has	process init er-	Check the	0	0	o	0	0		o	o
			occurred while	ror	cause of an								
			initializing %1		initialization								
			process. (re-		error and								
			turn code:%2)		troubleshoot it.								
pm	Information	523	The system	system halting	-	О	О	О					
			will be shut										
			down.										
pm	Information	524	Cluster ser-	Cluster service	-	О	О	О					
			vice will be	stopping									
			stopped.										
pm	Information	525	System will be	System reboot-	-	О	О	О					
•			rebooted.	ing									
pm	Information	526	%1 pro-	Process restart-	-	О	О	О					
1			cess will be	ing									
			restarted.										
pm	Information	527	Emergency	Emergency	-	О	О	О					
1			shutdown is in	shutdown									
			progress.										
pm	Information	528	Generating	Stop Error	-	О	О	О					
1			STOP error.	1									
pm	Information	529	Generating	HW reset	-	О	О	О					
1			hardware reset.										
pm	Information	530	There was a re-	request of sys-	_	0	0	0					
r			quest to shut	tem halt									
			down the sys-										
			tem from the										
			%1.										
pm	Information	531	There was a re-	request of clus-	-	0	0	0					
F			quest to stop	ter service stop									
			cluster service										
			from the %1.										
pm	Information	532	There was	request of sys-	_	0	0	0					
r			a request to	tem reboot									
			reboot system										
			from the %1.										
pm	Information	533	There was a re-	request of	_	О	0	0					
r			quest to restart	cluster service									
			cluster service	restart									
			from the %1.										
		<u> </u>		<u> </u>	<u> </u>		onti	<u> </u>	<u> </u>	n n	->.t	nac	

Table 4.3 – continued from previous page

Module	Event	Evon		ontinued from pre	Solution	1	2	3	1	5	6	7	0
Туре	Type	Lve⊓	t Messages	Description	Solution	'		J	4	Э	6	7	8
	Information	534	There was	request of clus-		_	_	_					
pm	IIIIOIIIIatioii	334		ter service re-		О	0	0					
			a request to		•								
			resume cluster	sume									
			service from										
	T., C.,	525	the %1.										
pm	Information	535	There was a	request of clus-	-	О	О	О					
			request to sus-	ter service sus-									
			pend cluster	pend									
			service from										
	T. C	526	the %1.										
pm	Information	536	There was	request of	-	0	0	О					
			a request of	emergency									
			emergency	shutdown									
			shutdown from										
			the %1.										
pm	Information	537	There was a re-	request of	-	О	О	О					
			quest to gener-	STOP error									
			ate STOP error										
			from the %1.										
pm	Information	538	There was a re-	request of HW	_	О	О	О					
			quest to gen-	reset									
			erate hardware										
			reset from the										
			%1.										
pm	Information	540	Requesting	shutdown	_	О	О	О					
			shutdown to	request to the									
			the automatic	automatic run-									
			running con-	ning control									
			trol software.	software start									
pm	Information	541	Requesting	shutdown	-	0	0	0					
			shutdown	(reboot) re-									
			(reboot) to the	quest to the									
			automatic run-	automatic run-									
			ning control	ning control									
			software.	software									
pm	Information	542	Shutdown	shutdown	_	0	О	О					
			request to the	request to									
			automatic run-	the automatic									
			ning control	running con-									
			software is	trol software									
			completed.	complete									
pm	Error	543	The automatic	shutdown by	The automatic	О	О	О				О	
			running con-	ESMPRO/AC	operating								
			trol software	fail	settings may								
			returned an		be incorrect.								
			error to the		Check the								
			shutdown		settings.								
			request.										

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID				-			-			-	
pm	Error	544	Communications with the automatic running control software failed.	Communications with ESM- PRO/AC fail	The system may not be able to operate properly.	О	0	0				0	
pmsvc	Error	801	The system will be shut-down because cluster resume was failed.	Failed to resume the cluster daemon	-	0	0	0					
pmsvc	Error	802	An attempt to shutdown the system failed.	Failed to shut- down the sys- tem	The system may not be able to operate properly.	O	O	O					
pmsvc	Information	810	The system shutdown was initiated by other than cluster service. Stopping cluster service. (timeout=%1 min).	Stopping cluster service.	-	0	0	0					
pmsvc	Information	811	Stopping cluster ser- vice has been completed.	Stopping cluster ser- vice has been completed.	-	O	O	O					
pmsvc	Error	812	Stopping cluster service has timed out.	Stopping cluster service has timed out.	-	0	0	0					
pmsvc	Warning	813	Stopping cluster service has been canceled.	Stopping cluster service has been canceled.	-	О	0	O					
rc	Information	1010	The group %1 is starting.	group-start started	-	0	0	0					
rc	Information	1011	The group %1 has been started.	group-start ended	-	0	0	0					
rc	Error	1012	Failed to start the group %1.	group-start failed	Take appropriate action by following the group resource message.	0	0	0				0	
rc	Information	1015	Waiting for group %1 to start has started.	waiting for group to start has started.	-	О	o	0					

Table 4.3 – continued from previous page

Module	Event	Гиор		Description		1	2	3	1	E	6	7	8
		ID	t Messages	Description	Solution	ı	2	S	4	5	6	′	0
Type rc	Type Information	1016	Waiting for	waiting for	_	0	0	0					
ic	Illioillation	1010	group %1 to	group to start	_	0	U	U					
			start has been	has been									
			completed.	completed.									
rc	Error	1017	Group start	waiting for		0	0	0					
10	Elloi	1017	was canceled	group to start	Check the		Ü						
			because wait-	has timed out.	status of the								
			ing for group		group waiting								
			%1 to start		to start.								
			was timed out.		If the group								
			(%2)		has not yet								
					been started,								
					re-perform the								
					group								
					operation after								
					starting that								
					group.								
ro	Warning	1018	Waiting for	group start	_	0	0	0					
rc	wanning	1016	group %1 to	group start continues.	<u>-</u>	0	U	O					
			start has timed	continues.									
			out. However,										
			group start										
			continues.										
			(%2)										
rc	Warning	1019	Server %1 is	cannot-start-	Perform server	О							
			not in a con-	group	recovery if the								
			dition to start		target server								
			group %2.		is suspended								
					(Isolated). If it								
					is suspended (Network								
					Partition								
					Unsolved),								
					recover net-								
					work partition								
					resources to								
					the normal								
					status.								
rc	Information	1020	The group %1	group-stop	-	0	0	0					
	<b>X</b> C	1021	is stopping.	started									
rc	Information	1021	The group	group-stop	-	О	О	О					
			%1 has been	ended									
ro	Error	1022	stopped. Failed to stop	group stop	Toka appropri							-	
rc	Error	1022	the group %1.	group-stop failed	Take appropriate action by	0	0	0				0	
			ane group 701.	Tancu	following the								
					group resource								
					message.								
							nnti	n	مام	<u></u>	0)/t	nac	

Table 4.3 – continued from previous page

Madula	Fyort.	Luga		Description		4	2	2	1		C	7	0
Module	Event		t Messages	Description	Solution	1	2	3	4	5	6	1	8
Туре	Type Information	ID 1025	W. '.' C										
rc	information	1025	Waiting for	waiting for	-	О	О	О					
			group %1	group to stop has started.									
			to stop has started.	nas started.									
ro	Information	1026	Waiting for	waiting for	_			_					
rc	IIIIOIIIIatioii	1020	group %1	group to stop	-	0	0	0					
			to stop has	has been									
			started.	completed.									
rc	Error	1027	Group stop has	waiting for		0	О	0					
10	Littor	1027	been canceled	group to stop	Check the								
			because wait-	has timed out.	status of the								
			ing for group	nus timea out.	group waiting								
			%1 to stop		to stop.								
			has timed out.		If the group								
			(%2)		has not yet								
			,		been stopped,								
					re-perform the								
					group								
					operation after								
					stopping that								
					group.								
rc	Warning	1028	Waiting for	group stop	-	О	0	О					
			group %1 to	continues.									
			stop has timed										
			out. However,										
			group stop										
			continues.										
	<b>T</b> 0	1020	(%2)										
rc	Information	1030	The resource %1 is starting.	resource-start started	-		0	0					
rc	Information	1031	The resource	resource-start	_		О	0					
			%1 has been	ended									
			started.										
rc	Error	1032	Failed to start	resource-start		О	О	О	О	О		О	О
			the resource	failed	Check the								
			%1. (%2 : %3)		cause for								
					failing to start								
					the resource.								
					If a stall occurs								
					during start								
					processing,								
					"Failed to start								
					the resource								
					%1. (99 :								
					command is								
					timeout)" is								
					output.								
												nac	

Table 4.3 – continued from previous page

NA L L -	<b>-</b>			ontinued from pre		_	_	_	_	_		_	_
Module Type	Event Type	ID	t Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Error	1033	Failed to start the recovery script of re- source %1. (%2: %3)	recoverscript- start failed	Check the cause for failing to start the recovery script.	0	0	0				0	
rc	Information	1034	A request to activate %1 resource on server %2 has been started.	Resource start request to the standby server	-	0	0	0					
rc	Information	1035	A request to activate %1 resource on server %2 has been completed.	Resource start request to the standby server completed.	-	0	0	0					
rc	Error	1036	A request to activate %1 resource on server %2 has been failed.	Resource activation request to the standby server failed.	Check if there is an error with the network or with the remote server.	0	0	0					
rc	Information	1040	The resource %1 is stopping.	resource-stop started	-		0	0					
rc	Information	1041	The resource %1 has been stopped.	resource-stop ended	-		0	0					
rc	Error	1042	Failed to stop the resource %1. (%2: %3)	resource-stop failed	Check the cause for failing to stop the resource. If a stall occurs during stop processing, "Failed to stop the resource %1. (99: command is timeout)" is output.	0	0	0	0	O		0	O
rc	Information	1044	A request to stop %1 resource on server %2 has been started.	Resource stop request to the standby server	-	0	0	0					

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID	Wicobages	Besonption	Coldion	l '	_	"				'	
rc	Information	1045	A request	Resource stop	_	0	0	0					
10	mormation	1015	to stop %1	request to the									ĺ
			*	standby server									ĺ
													ĺ
				completed.									ĺ
			has been										ĺ
		1016	completed.		G1 1 10 1								<u> </u>
rc	Error	1046	A request	Resource stop	Check if there	0	0	0					ĺ
			to stop %1	request to the	is an error with								ĺ
			resource on	standby server	the network								ĺ
			server %2 has	failed.	or with the								ĺ
			been failed.		remote server.								ĺ
rc	Information	1050	Moving the	group-move	-	0	0	0					
			group %1.	started									ĺ
rc	Information	1051	The group	group-move	-	0	0	0					
			%1 has been	ended									ĺ
			moved.										ĺ
rc	Error	1052	Failed to move	group-move	Take appropri-	О	0	0				0	
ic	Liioi	1032	the group %1.	failed	ate action by	"	0	0				U	ĺ
			the group 761.	lancu	following the								ĺ
					_								ĺ
					group resource								ĺ
	***	1050	0 0/1		message.								<u> </u>
rc	Warning	1059	Server %1 is	cannot-move-	Perform server	0							ĺ
			not in a con-	group	recovery if the								ĺ
			dition to move		target server								ĺ
			group %2.		is suspended								ĺ
					(Isolated). If it								ĺ
					is suspended								ĺ
					(Network								ĺ
					Partition								ĺ
					Unsolved),								ĺ
					recover net-								ĺ
					work partition								ĺ
					resources to								ĺ
					the normal								ĺ
					status.								ĺ
rc	Information	1060	Failing over	group-failover	-	О	0	0					
10	momation	1000	the group %1.	started		"	"	"					İ
#0	Information	1061				-	_	_					<u> </u>
rc	Information	1061	The group %1	group-failover	-	О	0	О					ĺ
			has been failed	ended									
			over.										<u> </u>
rc	Error	1062	Failed to fail	group-failover	Take appropri-	o	О	О				o	
			over the group	failed	ate action by								
			%1.		following the								
					group resource								
					message.								
***	Information	1070	Restarting the	group-restart	-	О	О	О					
ſĊ			_	started			-	-					İ
rc			group % L	Staticu									
	Information	1071	group %1.		_	0	0	0					-
rc	Information	1071	The group	group-restart	-	0	0	0					
	Information	1071			-	0	0	0					

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID		2000			_		'		•	•	
rc	Error	1072	Failed to restart the group %1.	group-restart failed	Take appropriate action by following the group resource message.	0	0	0				0	
rc	Error	1077	Group failover has failed because there is a server incapable of internal communication.	group-failover failed (internal communica- tion disabled)	Check the LAN heartbeat status in kernel mode. Start the group after recovering internal communication.	O	O	0					
rc	Information	1080	Restarting the resource %1.	resource- restart started	-	0	0	0					
rc	Information	1081	The resource %1 has been restarted.	resource- restart ended	-	0	0	0					
rc	Error	1082	Failed to restart the resource %1.	resource- restart failed	Take appropriate action by following the group resource message.	O	0	0				0	
rc	Information	1090	Shutting down the cluster.	cluster shut- down	-	0	0	0					
rc	Information	1091	Shutting down the server.	server shut- down	-	0	0	0					
rc	Error	1092	Group %1 is started on more than one server.	group double start	Server will automatically be shut down. Check the cause for the group to be started in more than one server.	O	O	O	O	O		O	O
re	Error	1093	The system shutdown was performed by other than the cluster service.	system shut- down by other than cluster service	It is considered as an error if the system shuts down by other than cluster service. Follow the appropriate steps to shut down the system.	O	0	0				O	

Table 4.3 – continued from previous page

Module	Event	Evon		Description	Solution	1	2	3	4	5	6	7	8
		ID	t Messages	Description	Solution	'	2	٥	4	5	O	'	0
Туре	Type	1100	Shutdown	shutdown	_		_	_					_
rc	Warning	1100	count is	count reached	_	0	0	0	0	0		О	0
			reached the	the limit									
			maximum	the mint									
			number (%1).										
			Final action of										
			resource %2										
			was ignored.										
rc	Warning	1101	Since there is	Suppression of	_	О	О	0					
10	, , arining	1101	no other nor-	final action for									
			mally running	activation error									
			server, the final	uctivation circi									
			action for an										
			activation error										
			of group re-										
			source %1 was										
			suppressed.										
rc	Warning	1102	Since there is	Suppression of	-	О	О	О					
	_		no other nor-	final action for									
			mally running	deactivation									
			server, the final	error									
			action for a de-										
			activation error										
			of group re-										
			source %1 was										
			suppressed.										
rc	Warning	1103	Since server	Suppression	-	0	О	0					
			%1 is specified	of shutdown									
			as that which	caused by									
			suppresses	both-system									
			shutdown at	activation									
			both-system	detection									
			activation										
			detection, it										
			ignored the										
			shutdown										
***	Womina	1104	request.	Congretion of	Doctort 41-	_	_	_					
rc	Warning	1104	A mismatch in	Generation of	Restart the	0	0	0					
			the group %1 status occurs	group status mismatch	group or reboot the								
			between the	mismawn	reboot the cluster.								
			servers.		ciusici.								
			5C1 VC15.										

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Table 4.3 – continued from previous page

Module	Event	Evon		Description	Solution	1	2	2	1		6	7	0
	Event	ID	t Messages	Description	Solution		2	3	4	5	6	′	8
Type rc	Type Information	1123	The automatic running con-	waiting for disk power-on	-	0	0	0					
			trol software is checking the										
			power status of										
			shared disks. A server will										
			be restarted										
			after the power status is										
			checked.										
rc	Error	1124	An error was returned from	disk power-on confirmation	The automatic operating	0	0	0				О	
			the automatic	failed	settings may								
			running con- trol software.		be incorrect. Check the								
			Failed to check		settings. An								
			the power sta- tus of shared		error may have occurred in								
			disks.		the automatic								
					power control unit. Check								
					the automatic								
					power control unit.								
rc	Error	1125	Server %1	communications with the auto-	The system	0	0	0				О	
			failed to com- municate with	matic running	may not be able to operate								
			the automatic	control soft-	properly.								
			running control software.	ware failed									
rc	Information	1130	Starting a	single-	-	0	0	0					
			single resource %1.	resource-start started									
rc	Information	1131	A single re-	single-	-	0	0	0					
			source %1 has been started.	resource-start ended									
rc	Error	1132	Failed to start a	single-	Take appropri-	0	0	0				О	
			single resource %1.	resource-start failed	ate action by following the								
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		group resource								
					message.								

Table 4.3 – continued from previous page

Madula		F :-		ontinued from pre		4		_			_	7	
Module Type	Event Type	ID	t Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Warning	1139	Server %1 is not in a condition to start a single resource %2.	cannot- start-single- resource	Perform server recovery if the target server is suspended (Isolated). If it is suspended (Network Partition Unsolved), recover network partition resources to the normal status.	o							
rc	Information	1140	Stopping a single resource %1.	single- resource-stop started	-	0	0	0					
rc	Information	1141	A single resource %1 has been stopped.	single- resource-stop ended	-	0	0	O					
rc	Error	1142	Failed to stop a single resource %1.	single- resource-stop failed	Take appropriate action by following the group resource message.	О	O	0				0	
rc	Information	1150	The group %1 is being migrated.	The group is being migrated.	-	0	0	0					
rc	Information	1151	The group %1 has been migrated.	The group has been migrated.	-	0	0	0					
rc	Error	1152	Failed to migrate the group %1.	Migrating the group has failed.	Take appropriate action by following the group resource message.	O	0	0					
rc	Warning	1159	Server %1 is not in a condition to migrate group %2.	The group cannot be migrated.	Perform server recovery if the target server is suspended (isolated). If it is suspended (due to an unresolved network partition), recover network partition resources to the normal status.	0	0	0					

Table 4.3 – continued from previous page

Module	Event	Evon		Description	Solution	1	2	3	4	5	6	7	8
		ID	t Messages	Description	Solution	'	2	J	4	5	О	1	0
Туре	Type		0	The desire									
rc	Information	1170	Server %1 in	The destina-	-	О	О	О					
			the same server	tion found									
			group (%2) has	in the same									
			been set as the	server group									
			destination for										
			the group %3.										
rc	Information	1171	Server %1 not	The destina-	-	О	О	o					
			in the same	tion found									
			server group	in the other									
			(%2) has been	server group									
			set as the										
			destination for										
			the group %3.										
rc	Warning	1179	Can not fail	The destina-	Check if other	О	О	О					
	٥		over the group	tion not found	servers in the								
			%1 because	in the same	same server								
			there is no	server group	group are								
			appropriate		stopped or								
			destination		isolated. If								
			in the same		so, start the								
			server group		servers or re-								
			%2.		turn the servers								
			,		to the cluster.								
rc	Information	1200	The resource	resource-	-	О	О	0					
10	111101111111111	1200	%1 will be	restart by									
			restarted since	resource-acterr									
			starting the	lesource acteri									
			resource %2										
			failed.										
rc	Information	1201	The group	group-failover	-	0	0	0					
10	momation	1201	%1 will be	by resource-	<del>-</del>	0	0						
				acterr									
			failed over to server %2	acterr									
			since starting										
			the resource										
	In fam.	1202	%3 failed.			_	_						
rc	Information	1202	The group %1	group-stop by	-	О	О	О					
			will be stopped	resource-acterr									
			since starting										
			the resource										
			%2 failed.										
rc	Information	1203	The cluster	service-stop by	-	О	О	О					
			service will be	resource-acterr									
			stopped since										
			starting the										
			resource %1										
			failed.			L	L		L				
_						_		_	_	_			

Table 4.3 – continued from previous page

NA. II.	<b>–</b>			ontinued from pre			_	_		_		-	_
Module	Event		t Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Type	1D	TD1	1 . 1									
rc	Information	1204	The system	shutdown-	-	О	О	О					
			will be shut	system by									
			down since	resource-acterr									
			starting the										
			resource %1 failed.										
rc	Information	1205	The system	reboot-system	_	0	0	0					
1C	Illioilliation	1203	will be re-	by resource-	_	0	0	0					
			booted since	acterr									
			starting the	acteri									
			resource %1										
			failed.										
rc	Information	1220	The resource	resource-	-	0	О	О					
			%1 will be	stop retry									
			stopped again	by resource-									
			since stopping	deacterr									
			the resource										
			%2 failed.										
rc	Information	1223	The cluster	service-stop	-	o	О	О					
			service will be	by resource-									
			stopped since	deacterr									
			stopping the										
			resource %1										
	Information	1224	failed. The system	shutdown-	_								
rc	Information	1224	The system will be shut		-	0	0	0					
			down since	system by resource-									
			stopping the	deacterr									
			resource %1	deacterr									
			failed.										
rc	Information	1225	The system	reboot-system	_	0	0	О					
			will be re-	by resource-									
			booted since	deacterr									
			stopping the										
			resource %1										
			failed.										
rc	Information	1241	Hardware reset	hw-reset by	-	О	О	О					
			will be gen-	resource-acterr									
			erated since										
			starting the										
			resource %1										
***	Information	1242	failed. STOP error	stop aman k	_	<u> </u>		_					
rc	Information	1242	STOP error will be gen-	stop-error by	_	0	0	0					
			erated since	resource-acterr									
			starting the										
			resource %1										
			failed.										
				<u> </u>	<u> </u>	$\perp$	nti		-1 -		_		

Table 4.3 – continued from previous page

Module	Event	Fyon	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Type	ID	Wessages	Description	Solution	'	_	J	_	٦	٥	,	J
rc	Information	1281	Hardware reset	hw-reset by	_	0	0	0					
10	Imormation	1201	will be gen-	resource-									ĺ
			erated since	deacterr									ĺ
			stopping the	deacterr									
			resource %1										
			failed.										
***	Information	1282		stop orror				_					
rc	IIIOIIIIauoii	1202		stop-error	-	0	0	0					
			will be gen- erated since	by resource- deacterr									
				deacterr									
			stopping the resource %1										
			failed.										
	Information	1200		Carint lasfana									
rc	information	1300	Script before final action	Script before	-	0	О	О					
				final action									
			upon activa- tion failure in	upon resource activation									
			resource %1	failure started.									
				ranure started.									
ro	Information	1301	started. Script before	Script before	_	_	_	_					
rc	Illiorillation	1301	final action	l •	-	О	О	О					
			upon activa- tion failure in	upon resource									
				activation fail-									
			resource %1	ure completed.									
	Information	1302	completed.	Script before									
rc	Illiorillation	1302	Script before final action	Script before final action	-	О	О	О					
			upon deactiva-	upon resource									
			tion failure in	deactivation									
			resource %1	failure started.									
			started.	Tanuie starteu.									
rc	Information	1303	Script before	Script before	_	0	0	0					
10	imormanon	1303	final action	final action	_	0		0					
			upon deactiva-	upon resource									
			tion failure in	deactiva-									
			resource %1	tion failure									
			completed.	completed.									
rc	Information	1304	Script before	Script be-	_	0	0	0					
10	Information	1304	activation in	fore resource									
			resource %1	activation									
			started.	started.									
rc	Information	1305	Script before	Script be-	_	0	0	0					
10	Information	1303	activation in	fore resource									
			resource %1	activation									
			completed.	completed.									
rc	Information	1306	Script after	Script after re-	_	0	0	0					
10	mormation	1300	activation in	source activa-		0	"	"					
			resource %1	tion started.									
			started.	don started.									
			starteu.				n n ti						

Table 4.3 – continued from previous page

Module Type	Event Type	Even ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
rc	Information	1307	Script after activation in resource %1 completed.	Script af- ter resource activation completed.	-	0	О	О					
rc	Information	1308	Script before deactivation in resource %1 started.	Script be- fore resource deactivation started.	-	O	0	0					
rc	Information	1309	Script before deactivation in resource %1 completed.	Script be- fore resource deactivation completed.	-	0	0	0					
rc	Information	1310	Script after deactivation in resource %1 started.	Script after resource deactivation started.	-	0	0	O					
rc	Information	1311	Script after deactivation in resource %1 completed.	Script after resource de-activation completed.	-	0	0	O					
rc	Error	1340	Script before final action upon activation failure in resource %1 failed.	Script before final action upon resource activation failure failed.	Check the cause of the script failure and take measures.	0	0	0				0	
rc	Error	1341	Script before final action upon deactivation failure in resource %1 failed.	Script before final action upon resource deactivation failure failed.	Check the cause of the script failure and take measures.	0	0	0				O	
rc	Error	1342	Failed to execute script before activation in resource %1.	Script be- fore resource activation failed.	Check the cause of the script failure and take measures.	0	0	0				0	
rc	Error	1343	Failed to execute script after activation in resource %1.	Script after resource activation has failed.	Check the cause of the script failure and take measures.	0	0	0				0	
rc	Error	1344	Failed to execute script before deactivation in resource %1.	Script be- fore resource deactivation failed.	Check the cause of the script failure and take measures.	0	o	0				0	

Table 4.3 – continued from previous page

Module	Event	Even	Messages	ntinued from pre	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID	J	'									
rc	Error	1345	Failed to ex- ecute script after deac- tivation in resource %1.	Script after resource deactivation failed.	Check the cause of the script failure and take measures.	0	O	O				0	
rc	Error	1346	Failed to log on as a user.	Logon as a user failed	Check if the domain, account and password of the execution user are correctly set.	0	0	0					
rc	Information	1400	Forced stop (BMC Power Off) of server %1 has been requested.	forced-stop (bmc- poweroff) requested	-			0					
rc	Information	1401	Forced stop (BMC Power Cycle) of server %1 has been requested.	forced- stop (bmc- powercycle) requested	-			0					
rc	Information	1402	Forced stop (BMC Reset) of server %1 has been requested.	forced-stop (bmc-reset) requested	-			O					
rc	Information	1403	Forced stop (BMC NMI) of server %1 has been requested.	forced-stop (bmc-nmi) requested	-			0					
rc	Information	1404	Forced stop has been requested.	forced-stop (VMware vSphere CLI) requested	-			O					
rc	Information	1405	Script for forced stop has started.	Script for forced-stop has started.	-			O					
rc	Information	1406	Script for forced stop has completed.	Script for forced-stop has completed.	-			O					
rc	Error	1420	Forced stop (BMC Power Off) of server %1 failed.	forced-stop (bmc- poweroff) failed	The system may not be able to operate properly.	О	О	O				O	

Table 4.3 – continued from previous page

Module	Event	Evon		Description	Solution	1	2	3	4	5	6	7	8
Type		ID	Messages	Description	Solution		_	J	4	5	О	′	0
	Туре	1421	Forced stop	forced-	The system	_						_	
rc	Error	1421	Forced stop (BMC Power			О	0	0				0	
			`		-								
			Cycle) of server %1	powercycle) failed	able to operate								
			server %1 failed.	Talled	properly.								
	E	1.422		f1 -4	The	_							
rc	Error	1422	Forced stop	forced-stop	The system	О	О	О				О	
			(BMC Reset) of server %1	(bmc-reset)	may not be								
			failed.	failed	able to operate								
#0	Emon	1423		formed stars	properly.  The system	_						_	
rc	Error	1423	1	forced-stop		0	О	О				О	
			(BMC NMI) of server %1	(bmc-nmi) failed	may not be								
			failed.	Talled	able to operate								
	E	1424		f1 -4	properly.	_							
rc	Error	1424	Forced stop	forced-stop	The system	О	0	0				0	
			failed.	(VMware vSphere CLI)	may not be able to operate								
				failed	1 -								
***	Error	1425	Script for	Script for	properly.  Check the								
rc	EHOI	1423	•	forced-stop	cause of the	О	0	О				О	
			forced stop has	_	script fail-								
			failed. (%1)	has stopped.	ure and take								
	Emon	1426	Script for	Timeout on	measures.  Check the							_	
rc	Error	1420	forced stop has	Timeout on the-script for	cause of the	О	0	0				0	
			timed out.	forced stop	script time-								
			timed out.	Torced stop	out and take								
					measures.								
rc	Warning	1427	Group failover	Suppression	Check the	0	0	0					
10	warming	1727	has been can-	of failover for	cause of the								
			celed because	forceed stop	forced stop								
			forced stop	failed	failure and								
			of server %1	Tanea	take measures.								
			failed.		and mousules.								
rc	Information	1440	The CPU	The CPU	_	0	0	0					
	211101111111111111	1110	frequency has										
			been set to	been set to									
			high.	high.									
rc	Information	1441	The CPU	The CPU	-	О	0	0					
			frequency has	frequency has									
			been set to low.	been set to low.									
rc	Information	1442	The CPU	The CPU	-	О	О	О					
			frequency has	frequency has									
			been set to %1.	been set.									
rc	Information	1443	CPU fre-	CPU fre-	-	О	О	О					
•			quency setting	quency setting									
			has been	has been									
			switched to au-	switched to au-									
			tomatic control	tomatic control									
			by cluster.	by cluster.									
			<b>-</b>	, , , ,	1		onti		<u> </u>				_

Table 4.3 – continued from previous page

Module	Event	Even		ntinued from pre		1	2	2	1		6	7	0
	Event	Lve⊓	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре		Cluster action	Cl									
rc	Warning	1450		Cluster action	-	О	О	О					
	***	1 4 5 1	is disabled.	is disabled.									
rc	Warning	1451	Ignored the	Automatic	_	0	О	О					
			automatic	group startup									
			start of groups	is not exe-									
			because auto-	cuted.									
			matic group										
			startup is										
			disabled.										
rc	Warning	1452	Ignored the re-	Resource	-	0	О	О					
			covery action	recovery ac-									
			in resource	tion is not									
			activation	executed.									
			because re-										
			covery action										
			caused by										
			group resource										
			activation error										
			is disabled.										
rc	Warning	1453	Ignored the re-	Resource	-	О	О	О					
			covery action	recovery ac-									
			in resource	tion is not									
			deactivation	executed.									
			because re-										
			covery action										
			caused by										
			group resource										
			deactiva-										
			tion error is										
			disabled.										
rc	Information	1454	Cluster action	Cluster action	-	0	0	О					
			is set disabled.	is disabled.									
rc	Information	1455	Cluster action	Cluster action	-	О	О	О					
			is set enabled.	is enabled.									
rc	Error	1460	CPU fre-	CPU fre-	Check BIOS	О	О	О				О	
			quency control	quency control	settings and								
			cannot be	cannot be	kernel settings.								
			used.	used.									
rc	Error	1461	Failed to set	Setting the	Check BIOS	О	О	О				О	
			the CPU fre-	CPU fre-	settings and								
			quency to high.	quency to high	kernel settings.								
				has failed.	Check if the								
					cluster service								
					is started.								
					Check if the								
					configuration								
					is set so that								
					CPU fre-								
					quency control								
					is used.								
				I .						ш			

Table 4.3 – continued from previous page

Madula	Fuent	- Fiven		Description		4	_	2	1		6	7	0
Module	Event		t Messages	Description	Solution	1	2	3	4	5	6	/	8
Туре	Туре	ID	77.11		GI I DIGG								
rc	Error	1462	Failed to set	Setting the	Check BIOS	О	О	0				0	
			the CPU fre-	CPU fre-	settings and								
			quency to low.	quency to low	kernel settings.								
				has failed.	Check if the								
					cluster service								
					is started.								
					Check if the								
					configuration								
					is set so that								
					CPU fre-								
					quency control								
					is used.								
rc	Error	1463	Failed to set	Setting the	Check BIOS	О	О	o				o	
			the CPU fre-	CPU fre-	settings and								
			quency to %1.	quency has	kernel settings.								
				failed.	Check if the								
					cluster service								
					is started.								
					Check if the								
					configuration								
					is set so that								
					CPU fre-								
					quency control								
					is used.								
rc	Error	1464	Failed to	Switching	Check if the	О	О	О				0	
			switch the	the CPU fre-	cluster service								
			CPU fre-	quency setting	is started.								
			quency setting	to automatic	Check if the								
			to automatic	control by	configuration								
			control by	cluster has	is set so that								
			cluster.	failed.	CPU fre-								
					quency control								
					is used.								
rc	Information	1470	Server %1 has	destination	-	О	О	o					
			been set as the	found									
			destination for										
			the group %2										
			(reason: %3).										
rc	Warning	1471	There is no ap-	destination not	Check if any	О	О	o				0	
			propriate desti-	found	monitor re-								
			nation for the		sources detects								
			group %1 (rea-		an error on the								
			son: %2).		other servers.								
rc	Warning	1472	Server %1 is	not in a con-	Check if any	О	О	О					
			not in a con-	dition to start	monitor re-								
			dition to start	group	sources detects								
			group %2 (rea-		an error on the								
			son: %3).		server.								
						$\overline{}$	onti	-					

Table 4.3 – continued from previous page

Madula	Fuent	Livon		Description		1	2	2	1	E	6	7	0
Module	Event		t Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID	G			_							
rc	Error	1480	Group start has been canceled because wait- ing for group %1 to start has failed. (%2)	waiting for group to start failed		0	O	0					
rc	Warning	1481	Waiting for group %1 to start has failed. However, group start continues. (%2)	waiting for group to start failed	-	0	O	0					
rc	Error	1482	Group start has been canceled because wait- ing for group %1 to start has canceled.	waiting for group to start canceled	-	0	0	0					
rc	Warning	1483	Waiting for group %1 to start has canceled. However, group start continues.	waiting for group to start canceled	-	0	0	0					
rc	Error	1484	Group stop has been canceled because wait- ing for group %1 to stop has failed. (%2)	waiting for group to stop failed	-	0	0	0					
rc	Warning	1485	Waiting for group %1 to stop has failed. However, group stop continues. (%2)	waiting for group to stop failed	-	0	0	0					
rc	Error	1486	Group stop has been canceled because wait- ing for group %1 to stop has canceled.	waiting for group to stop canceled	1	0	0	0					

Table 4.3 – continued from previous page

	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Event Type	ID	Messages	Description	Colation	'	_		-		Ü	,	
Warning	1487	Waiting for group %1 to stop has canceled. However, group stop continues.	waiting for group to stop canceled	-	0	O	O					
	1490	started to check the double activation.	ble activation started	-			0					
Information	1491	Group %1 completed to check the double activation.	check the dou- ble activation ended	-			0					
Error	1492	failed to check the double activation.	check the dou- ble activation failed	status of the group.	0	О	O				O	
Information	1493	Waiting for group %1 to start for check the double activation.	group start continues for check the double activation	Check the status of the group.	0	0	0					
Information	1501	Monitor %1 has been started.	Monitor start	-	0	0	0					
Information	1502	Monitor %1 has been stopped.	Monitor stop	-	0	0	0					
Information	1503	Monitor %1 does not monitor in this server.	Not target server	-	0	0	O					
Warning	1504	Monitor %1 is in the warning status. (%2: %3)	Monitor warn	Check the cause of Warning.	0	0	O				0	
Warning	1505	The number of monitor resources reached the maximum number. (registered resource: %1)	invalid number of monitor re- source	Check the cluster configuration data.	0	O	O				O	
Warning	1506	Configuration of %1 is invalid. (%2:	invalid monitor resource	Check the cluster configuration data.	0	0	O				0	
	Information  Error  Information  Information  Information  Warning  Warning	Warning1487Information1490Information1491Error1492Information1501Information1502Information1503Warning1504	Warning 1487 Waiting for group %1 to stop has canceled. However, group stop continues.  Information 1490 Group %1 started to check the double activation.  Information 1491 Group %1 completed to check the double activation.  Error 1492 Group %1 failed to check the double activation.  Information 1493 Waiting for group %1 to start for check the double activation.  Information 1501 Monitor %1 has been started.  Information 1502 Monitor %1 has been stopped.  Information 1503 Monitor %1 does not monitor in this server.  Warning 1504 Monitor %1 is in the warning status. (%2: %3)  Warning 1505 The number of monitor resources reached the maximum number. (registered resource: %1)  Warning 1506 Configuration of %1 is in-	Warning 1487 Waiting for group %1 to stop has canceled. However, group stop continues.  Information 1490 Group %1 check the double activation.  Information 1491 Group %1 check the double activation.  Error 1492 Group %1 check the double activation.  Error 1492 Group %1 check the double activation.  Information 1493 Waiting for group start continues for check the double activation.  Information 1493 Waiting for group %1 to start for check the double activation.  Information 1501 Monitor %1 has been started.  Information 1502 Monitor %1 has been stopped.  Information 1503 Monitor %1 has been stopped.  Information 1504 Monitor %1 has been stopped.  Information 1505 Monitor %1 in this server.  Warning 1506 The number of monitor resources reached the maximum number. (registered resource: %1)  Warning 1506 Configuration of %1 is in-valid monitor resource.	Warning 1487 Waiting for group %1 to stop has canceled. However, group stop continues.  Information 1490 Group %1 started to check the double activation.  Information 1491 Group %1 completed to check the double activation.  Error 1492 Group %1 check the double activation.  Information 1493 Waiting for group start continues start ed double activation.  Information 1501 Monitor %1 has been started.  Information 1502 Monitor %1 has been stopped.  Information 1503 Monitor %1 has been stopped.  Information 1504 Monitor %1 has been stopped.  Information 1505 Monitor %1 has been stopped.  Warning 1506 The number of monitor resources reached the maximum number. (registered resource: %1)  Warning 1506 Configuration of %1 is in- visource with a continued started.  Invalid number of least the continued started attails invalid number of least on the cluster configuration of %1 is in- visource cluster con-	Warning 1487 Waiting for group %1 to stop has canceled. However, group stop continues.  Information 1490 Group %1 check the double activation.  Information 1491 Group %1 check the double activation.  Error 1492 Group %1 check the double activation.  Information 1493 Waiting for group %1 failed to check the double activation.  Information 1493 Waiting for group %1 to start for check the double activation.  Information 1501 Monitor %1 has been started.  Information 1502 Monitor %1 has been started.  Information 1503 Monitor %1 has been started.  Information 1504 Monitor %1 has been started.  Information 1505 Monitor %1 has been started.  Information 1506 Monitor %1 has been started.  Information 1507 Monitor %1 has been started.  Information 1508 Monitor %1 has been started.  Information 1509 Monitor %1 has been started.  Information 1500 Monitor %1 has been started.  Information 1501 Monitor %1 has been started.  Information 1502 Monitor %1 has been started.  Information 1503 Monitor %1 has been started.  Information 1506 Group %1 is in invalid number of monitor resources reached the maximum number. (registered resource: %1)  Warning 1506 Configuration of %1 is in- viscource cluster con-	Warning   1487   Waiting for group waiting for group to stop has canceled. However, group stop continues.	Warning 1487 Waiting for group %1 to stop has canceled. However, group stop continues.  Information 1490 Group %1 completed to check the double activation.  Information 1491 Group %1 completed to check the double activation.  Error 1492 Group %1 failed to check the double activation.  Information 1493 Waiting for group %1 to start for check the double activation.  Information 1501 Monitor %1 has been storped.  Information 1502 Monitor %1 has been storped.  Information 1503 Monitor %1 does not monitor in this server.  Warning 1505 The number of monitor resources reached the maximum number. (registered resource: %1)  Warning 1506 Configuration of %1 is in-location for stop of %1 is in-location in maximum number. (registered resource: %1)  Warning 1506 Configuration of %1 is in-location for stop of %1 is in-location in maximum number. (registered resource: %1)  Warning 1506 Configuration of %1 is in-location of %1 is in-lo	Warning   1487   Waiting for group   waiting for group to stop canceled.   However, group stop continues.	Warning 1487 Waiting for group to stop to stop to stop to stop continues.  Information 1490 Group %1 started to check the double activation.  Information 1491 Group %1 check the double activation check the double activation.  Error 1492 Group %1 check the double activation failed to check the double activation.  Information 1493 Waiting for group %1 to start for check the double activation.  Information 1501 Monitor %1 has been started.  Information 1502 Monitor %1 has been stopped.  Information 1503 Monitor %1 has been stopped.  Warning 1504 Monitor %1 is in the warning status. (%2: %3)  Warning 1505 The number of monitor resources reached the maximum number. (registered resource: %1)  Warning 1506 Configuration of %1 is in valid monitor Check the cluster continues of monitor resource of monitor resource of %1 is in valid monitor Check the cluster con-	Warning   1487   Waiting for group waiting for group to stop to stop to stop to stop to stop canceled.   However, group stop continues.	Warning

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Module	Event	Even	Messages	ontinued from pre	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID	Messages	Description	Colution	'	_	J	_			,	Ü
rm	Error	1507	Failed to start monitor %1.	monitor start- ing failed	The system may not be able to operate properly.	0	O	O	O	O		O	0
rm	Error	1508	Failed to stop monitor %1.	monitor stop- ping failed	The system may not be able to operate properly.	0	O	O				O	
rm	Error	1509	Monitor %1 detected an error. (%2: %3)	monitor failed	Check the cause for monitor error.	0	O	O	0	O		O	0
rm	Information	1510	Monitor %1 is not monitored.	not monitored	-	0	0	0					
rm	Information	1511	Monitor resource has not been registered.	unregistered monitor re- source	-	0	O	0					
rm	Information	1512	%1 was stopped for failure in monitor %2.	relation stop	-	О	O	O					
rm	Information	1513	%1 was restarted for failure in monitor %2.	relation restart	-	0	O	O					
rm	Information	1514	%1 was failed over for failure in monitor %2.	relation group failover	-	0	0	0					
rm	Information	1515	There was a request to stop cluster for failure in monitor %1.	cluster stop	-	0	0	0					
rm	Information	1516	There was a request to shut down the system for failure in monitor %1.	system shut- down	-	O	0	0					
rm	Information	1517	There was a request to restart the system for failure in monitor %1.	system reboot	-	0	0	0					
rm	Error	1518	Failed to stop %1 due to error detection of %2.	relation stop failure	Check the status of resources.	0	O	O				O	

Table 4.3 – continued from previous page

Module	Event	Even	Messages	ontinued from pre	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID	Messages	Description	Coldion	'	_		_		Ü	'	Ū
rm	Error	1519	Failed to restart %1 due to error detection of %2.	relation restart failure	Check the status of resources.	О	0	0				0	
rm	Error	1520	Failed to fail over %1 due to error detection of %2.	relation group failover failure	Check the status of resources.	O	O	O				O	
rm	Error	1521	Failed to stop the cluster due to error detec- tion of %1.	cluster stop failure	The system may not be able to operate properly.	O	O	O				O	
rm	Error	1522	Failed to shut down the sys- tem due to er- ror detection of %1.	os shutdown failure	The system may not be able to operate properly.	O	0	O				0	
rm	Error	1523	Failed to restart the system due to error detection of %1.	os reboot fail- ure	The system may not be able to operate properly.	О	0	O				0	
rm	Error	1524	The group of monitor %1 is unknown.	unknown group	Check the cluster configuration data.	О	O	O				O	
rm	Warning	1525	No action is taken because %1 is not online.	not perform failure action	-	O	O	O				O	
rm	Information	1526	Status of monitor %1 was returned to normal.	status changed into normal	-	O	O	O					
rm	Information	1527	Status of monitor %1 was changed into unknown.	status changed into unknown	The system may not be able to operate properly.	O	O	O					
rm	Error	1528	Initialization error has oc- curred (%1 : %2)	process initialize error	The system may not be able to operate properly.	O	O	O				O	
rm	Information	1529	Monitor %1 was suspended.	suspend (sin- gle monitor)	_	0	O	O					
rm	Information	1530	Monitor %1 was resumed.	resume (single monitor)	-	О	0	0					

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Type	ID	i wessages	Description	Coldion	<b>'</b>	_	"	7	٦	U	′	
rm	Information	1531	All moni-	suspend (all	_	О	О	0					
1111	Imormation	1331	tors were	monitors)		"		0					
			suspended.	inomitors)									
****	Information	1532	All monitors	resume (all	_		_	_					-
rm	IIIIOIIIIatioii	1332	were resumed.	,	-	О	0	0					
	Information	1522		monitors)				_					$\vdash$
rm	information	1533	The polling	change polling	-	О	О	О					
			interval of	interval (single									
			monitor %1	monitor)									
			was changed										
			into %2*%3.										
rm	Information	1534	The polling	change polling	-	0	0	0					
			interval ratio	interval (all									
			of all monitors	monitors)									
			were changed										
			into %1.										
rm	Information	1535	Causing in-	intentional	-	О	О	О					
			tentional stop	panic									
			error was re-										
			quired because										
			an error is										
			detected by										
			%1.										
rm	Error	1536	Causing inten-	intentional	The system	0	0	О				o	
			tional stop er-	panic failure	may not be								
			ror has failed		able to operate								
			because an er-		properly.								
			ror is detected										
			by %1.										
rm	Warning	1537	Recovery	not recov-	Monitor re-	0	О	О				О	
			will not be	ery(server	source is not								
			executed	suspending)	recovered if								
			since server is	1 6	the server is								
			suspending.		suspended								
					(Network								
					Partition								
					Unsolved).								
					Check the								
					cause for being								
					suspended								
					(Network								
					Partition Un-								
					solved) and								
					recover net-								
					work partition								
					_								
					resources to the normal								
					status.								į l

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	ontinued from pre	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID	Wessages	Description	Solution	<b>'</b>	_	٥	7	٦	0	,	U
rm	Warning	1538	Recovery will not be exe- cuted since none of the re-	not recovery (all groups)	-	0	О	0					
			covery targets is active.										
rm	Warning	1571	Monitor %1 was delayed. (timeout=%2, response time=%3, rate=%4)	monitor de- layed	Check the load on the server where monitoring delay was detected and reduce the load. Set longer timeout if the monitoring timeout is detected.	O	O	0				0	
rm	Warning	1572	Monitor %1 could not perform monitoring.	Delay in inter- nal processing	The system may not be able to operate properly.	0	0	O					
rm	Warning	1600	Shutdown count reached the maximum number (%1). Final action of monitor %2 was ignored.	reached OS shutdown limit	-	0	0	0	0	0		0	0
rm	Warning	1601	Since there is no other normally running server, the final action (%1) for the error detection of monitor resource %2 was suppressed.	Suppression of final action for error detection	-	0	0	0					
rm	Information	1700	Script before action(%1) upon failure in %2 monitor resource started.	Script before final action upon moni- tor resource failure started.	-	0	0	0					
rm	Information	1701	Script before action(%1) upon failure in %2 monitor resource completed.	Script before final action upon monitor resource fail- ure completed.	-	0	0	0					

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID	Wicocagoo	Boomption	Coldion	'	_		•			•	ı
rm	Information	1720	Script before action(%1) upon failure in %2 monitor resource failed.	Script before final action upon monitor resource failure has failed.	-	0	0	0					
rm	Information	1750	The collecting of detailed information triggered by monitoring %1 error has been started (timeout=%2).	The collecting of detailed information has been started.	-	0	0	O					
rm	Information	1751	The collection of detailed information triggered by monitoring %1 error has been completed.	The collection of detailed information has been completed.	-	0	0	0					
rm	Information	1752	The collection of detailed information triggered by monitoring %1 error has been failed (%2).	The collection of detailed information has been failed.	-	0	0	0					
rm	Information	1800	The %1 service will be started by cluster system.	start service	-	0	0	О					
rm	Information	1801	The %1 service will be started again because the service has been stopped by cluster system. (retry: %21%3)	start service (retry)	-	0	0	0					
rm	Information	1802	The %1 service will be resumed by cluster system.	resume service	-	0	O	O					

Table 4.3 – continued from previous page

Module	Event	Evon		ntinued from pre	Solution	1	2	3	1	5	6	7	•
Type	Type	ID	t Messages	Description	Solution	<b>'</b>	_	3	4	5	6	′	8
rm	Information	1803	The %1 service will be	resume service (retry)	-	0	0	0					
			resumed again	(letry)									
			because the										
			service has										
			been sus-										
			pended by										
			cluster system.										
	<b>T</b> 0	1001	(retry: %2/%3)										
rm	Information	1804	The %1 ser-	stop service	-	О	О	О					
			vice will be stopped by										
			cluster system.										
rm	Information	1805	The %1 ser-	service run-	_	0	0	0					
	21110111111111	1000	vice entered	ning									
			the running										
			state.										
rm	Information	1806	The %1 ser-	service	-	О	О	О					
			vice entered	stopped									
			the stopped										
	<b>W</b> /	1011	state.	failed to start	Check the ser-								
rm	Warning	1811	Start request of the %1 service	service	vice status.	О	0	0					
			failed. Check	Service	vice status.								
			the service sta-										
			tus.										
rm	Warning	1812	Resume re-	failed to	Check the ser-	О	О	О					
			quest of the	resume service	vice status.								
			%1 service										
			failed. Check										
			the service										
****	Wamina	1012	status.	foiled to stop	Charle the sam								
rm	Warning	1813	Stop request of the %1 service	failed to stop the service	Check the service status.	0	0	0					
			failed. Check	the service	vice status.								
			the service sta-										
			tus.										
rm	Warning	1816	The %1 ser-	service	Check the	О	0	0					
			vice has been	stopped (error)	cause of								
			stopped by		the service								
			other than		stopped.								
	<b>XX</b> 7	1017	cluster system.		Ch. 1 4								
rm	Warning	1817	The %1 service has been	service sus-	Check the cause of	О	0	0					
			suspended	pended (error)	cause of the service								
			by other than		suspended.								
			cluster system.		Suspended.								
				<u> </u>	<u> </u>	_			-1 -			nac	

Table 4.3 – continued from previous page

Module	Event	Evon	t Messages	Description	Solution	1	2	3	4	5	6	7	8
		ID	i wessayes	Description	Solution	<b>'</b>	~	٥	4	5	O	′	0
Type	Type	1819	Start or resume	atant on magringa	_		_						
rm	Warning	1019		start or resume	-	0	О	0					
			retry count for	retry count									
			the %1 ser-	exceeded the									
			vice exceeded	threshold									
			the threshold										
	T.C:	1020	(%2).	1									
rm	Information	1820	The cluster	cluster stop	-	0	О	О					
			will be stopped	(failure in									
			because there	service moni-									
			was a failure	toring)									
			in %1 service										
		1001	monitoring.										
rm	Information	1821	The system	system shut	-	О	О	О					
			will be shut	down (failure									
			down because	in service									
			there was	monitoring)									
			a failure in										
			%1 service										
			monitoring.										
rm	Information	1822	The clus-	system re-	-	О	0	О					
			ter will be	boot (failure									
			rebooted be-	in service									
			cause there	monitoring)									
			was a failure										
			in %1 service										
			monitoring.										
rm	Error	1870	Monitor re-	cannot control	Check if the li-	0	0	0					
			source %1 can	monitor (in-	cense is regis-								
			not be con-	valid license)	tered or the li-								
			trolled because		cense is valid.								
			the license is										
			invalid.										
rm	Information	1890	Recovery	Recovery		О	О	О					
			script has exe-	script upon									
			cuted because	monitor re-									
			an error was	source failure									
			detected in	executed									
			monitoring										
		4.5.	%1.										
rm	Error	1891	Attempted	failed to ex-	Check the	О	О	О					
			to execute	ecute recovery	cause of the								
			recovery script	script	recovery script								
			due to the error		failure and								
			detected in		take measures.								
			monitoring										
			%1, but failed.				onti						

Table 4.3 – continued from previous page

Module	Event	Evon		Description	Solution	1	2	3	4	5	6	7	8
		ID	t Messages	Description	Solution	<b>'</b>	_	٥	4	5	O	,	0
Туре	Туре		T: 1. 1. 4. 1	т	Ch. 1 'C th.								
rm	Error	1892	Failed to log	Logon as a	Check if the	О	О	О					
			on as a user.	user failed	domain, ac-								
					count and								
					password of								
					the execu-								
					tion user are								
					correctly set.								
rm	Information	1910	Dummy Fail-	enable dummy	-	0	0	0					
			ure of monitor	failure									
			resource %1 is										
			enabled.										
rm	Information	1911	Dummy Fail-	disable dummy	-	0	0	0					
			ure of monitor	failure									
			resource %1 is										
			disabled.										
rm	Information	1912	Dummy Fail-	enable dummy	_	0	О	0					
			ure of all	failure (all									
			monitors will	monitors)									
			be enabled.	monitors)									
rm	Information	1913	Dummy Fail-	disable dummy	_	0	_	0					
rm	IIIOIIIauoii	1913	ure of all	failure (all	_	0	0	0					
			monitors will	monitors)									
				monitors)									
	***	1014	be disabled.	6 11 1 11									
rm	Warning	1914	An attempt	failed to enable	-	0	О	О					
			was made	dummy failure									
			to enable										
			Dummy Fail-										
			ure of monitor										
			resource %1,										
			but failed.										
rm	Warning	1915	An attempt	failed to dis-	-	О	О	О					
			was made	able dummy									
			to disable	failure									
			Dummy Fail-										
			ure of monitor										
			resource %1,										
			but failed.										
rm	Information	1930	Recovery	disable re-	-	О	О	О					
			action caused	covery action									
			by monitor	caused by									
			resource error	monitor re-									
			is disabled.	source error									
rm	Information	1931	Recovery	enable re-	-	О	0	О					
			action caused			-							
			by monitor	caused by									
			resource error	monitor re-									
			is enabled.	source error									
			15 CHADICA.	Source ciroi									

Table 4.3 – continued from previous page

Module	Event	Even	Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Type	ID	Wicobages	Besomption	Coldion	'	_		_	J	J	'	Ŭ
rm	Warning	1932	Ignored the re-	not recovery	_	О	0	0					
1111	warming	1732	covery action	(recovery									
			in monitoring	action caused									
			%1 because	by monitor									
			recovery ac-	resource error									
			tion caused	has disabled)									
			by monitor	lias disabled)									
			resource error										
			is disabled.										
rm	Warning	1933	Recovery ac-	disable re-	_	0	_	0					
rm	warming	1933	tion at timeout	covery action	_	0	0	0					
				1									
			occurrence										
			was disabled,	monitor re- source timeout									
			so the recovery action of mon-	source unieout									
			itor %1 was										
			not executed.										
arrant	Information	2101	%1 service has	Start service	_		_						
event	Illiormation	2101		Start service	-		О						
arrant	Information	2102	been started. %1 service has	Cton compies			_						
event	information	2102		Stop service	-		О						
	W/	2120	been stopped.  Timeout or	Threads were	The	_							
event	Warning	2130		timeout	The system	О	0					О	
				timeout	may not be								
			has occurred		able to operate								
			while waiting		properly.								
			for internal threads to										
			stop. Detected internal error										
ariant.	Ешан	2150	%1.	Involid	Chaola 41:	_	_					-	
event	Error	2130	The specified	Invalid config-	Check the	О	О					О	
			parameters are	uration	cluster con-								
			invalid. Check		figuration								
			the cluster		data.								
			configuration										
arrant.	Eman	2151	data.  Failed to ob-	Involid	Chaola tha and	_	_						
event	Error	2151		Invalid config-	Check the pol-	О	0					0	
			tain the policy	uration	icy file.								
			data. Check										
	E	2152	the data.	Dallad to an 1	The								
event	Error	2152	Failed to ob-	Failed to read	The system	О	О					О	
			tain the reg-	registry	may not be								
			istry data. Sys-		able to operate								
			tem may be un-		properly.								
			able to operate										
			correctly.										

Table 4.3 – continued from previous page

		_		ntinued from pre				_		_	_	_	
Module Type	Event Type	ID	t Messages	Description	Solution	1	2	3	4	5	6	7	8
event	Error	2153	Failed to dispatch to the service manager. System may be unable to operate correctly.	Dispatch failed	The system may not be able to operate properly.	0	0					0	
event	Error	2154	Failed to create an internal re- source. Sys- tem may be un- able to operate correctly.	failed to resource creation	The system may not be able to operate properly.	O	O					O	
event	Error	2155	Failed to create communication sockets. System may be unable to operate correctly.	failed to socket creation	The system may not be able to operate properly.	0	0					O	
event	Error	2156	Failed to control the shared memory. System may be unable to operate correctly.	failed to shared memory con- trol	The system may not be able to operate properly.	0	0					0	
event	Error	2157	Failed to generate internal threads.  System may be unable to operate correctly.	failed to thread creation	The system may not be able to operate properly.	0	O					O	
event	Error	2199	Other internal error has oc- curred. System may be unable to operate cor- rectly.	Internal Error	The system may not be able to operate properly.	0	0					O	
trnsv	Error	2301	There was a notification from external (IP=%1), but it was denied.	Connection limit by client IP address	Check the client IP address from which the connection is permitted.	0	0	O					
trnsv	Information	2310	There was a notification (%1) from external (IP=%2).	Received an abnormity occurrence notification from outside	-	0	o	0					

Table 4.3 – continued from previous page

	_			ntinued from pre				_					
Module Type	Event Type	Eveni ID	t Messages	Description	Solution	1	2	3	4	5	6	7	8
trnsv	Information	2320	Recovery action (%1) of monitoring %2 has been executed because a notification arrived from external.	Executed the recovery action at abnormity occurrence	-	0	O	0					
trnsv	Information	2321	Recovery action (%1) of monitoring %2 has been completed.	Completed the recovery action at abnormity occurrence	-	O	0	0					
trnsv	Error	2322	Attempted to recovery action (%1) of monitoring %2 due to the notification from external, but failed.	Failed to execute the recovery action at abnormity occurrence	Make sure that the recovery action on the environment is executable.	0	O	0					
trnsv	Information	2330	Action (%1) has been completed.	The requested action completed	-	0	0	0					
trnsv	Error	2331	Attempted to execute action (%1), but it failed.	The requested action Failed	Make sure that the recovery action is an executable environment.	O	0	0					
trnsv	Information	2340	Script before action of monitoring %1 has been executed.	Script execution started	-	0	O	0					
trnsv	Information	2341	Script before action of monitoring %1 has been completed.	·	-	0	0	0					
trnsv	Error	2342	Attempted to execute script before action of monitoring %1, but it failed.	Script execu- tion failed	Handle the problem after making sure the cause of script failure.	0	0	0					
trnsv	Error	2350	The system will be shut-down because cluster resume was failed.	Failed to resume the cluster daemon	-	0	0	0			ovt		

Table 4.3 – continued from previous page

Module	Event	Even		Description	Solution	1	2	3	4	5	6	7	8
	Type	ID	t Messages	Description	Solution	'		٥	4	3	О	1	0
Туре	Error	2351	An attament to	Failed to shut-	The system	_	_	_					
trnsv	EHOI	2331	An attempt to shutdown the			0	0	О					
				down the sys-	may not be								
			system failed.	tem	able to operate								
11.1.1.	E	2051	V1!	V 1'	properly.		_	_				_	
lankhb	Error	2851	Keep-alive timeout was	Keep-alive timeout	There is a server where	О	О	О				О	
			timeout was detected on the	timeout									
					keep-alive timeout is de-								
			server %1.										
					_								
					the server								
111.1	F	2052	CTOD	CTOD	error.								
lankhb	Error	2852	STOP error	STOP error	There is a	О	0	0				O	
			was de-		server where STOP error								
			tected on the server %1.		STOP error is detected.								
			server %1. (source:%2,		Remove the								
			exit code:%3)		failure of the								
			exit code. %3)		server.								
lankhb	Error	2853	Hardware	Hardware reset	There is a	0	0	0				0	
lalikilu	EHOI	2633		Traitiware reset	server where	0	U	0				U	
			reset was detected on		hardware reset								
			the server %1.		is detected.								
			(source:%2,		Remove the								
			exit code:%3)		failure of the								
			CAIL COUC. 703)		server.								
ptun	Warning	3301	The param-	Delay warning	The parameter	0	0	0				0	
ptun	warning	3301	eter (%1)	Delay warming	exceeded the		0					U	
			exceeded the		threshold. Set								
			threshold (%2		an appropriate								
			p.c.). Timeout		value to the								
			value=%3(sec)		parameter.								
			Data= $\%4(sec)$		parameter.								
ptun	Warning	3302	The param-	Delay warning	The parameter	О	o	0				0	
r			eter (%1)	,	exceeded the							٥	
			exceeded the		threshold. Set								
			threshold (%2		an appropriate								
			p.c.). Timeout		value to the								
			value=%3		parameter.								
			Data=%4		_								
			Server=%5										
			Resource=%6										

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Module	Event	Evon		Description	Solution	1	2	3	4	5	6	7	8
		1 1	t Messages	บครดาปกกกา	Jointion		_	٥	4	J	0	1	0
Type	Type Error	ID 3501	ARMLOAD detected that the application (watchID=%2) of the group %1 has stopped.  The number of failovers has reached the maximum count. Check what has caused the	Application stopped	Check the cause for application to be stopped.	0	0		4	3		0	
armemd	Error	3502	application to stop.  ARMLOAD detected that the application (watchID=%2) of the group %1 has stopped.  Script will	Application stopped	Check the cause for application to be stopped.	O	O					o	
armemd	Error	3503	be restarted. Check what has caused the application to stop.  ARMLOAD	Application	Check the	0	0					0	
			detected that the application (watchID=%2) of the group %1 has stopped.  The application will be restarted. Check what has caused the application to stop.	stopped	cause for application to be stopped.								

Table 4.3 – continued from previous page

Module	Event	Fvan	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID	. wicooayeo	Description	Joidholl	'	_		<b>-</b>		0	'	J
armemd	Error	3504	ARMLOAD detected that the application (watchID=%2) of the group %1 has stopped. Group will be failed over. Check what has caused the application to stop.	Application stopped	Check the cause for application to be stopped.	0	0					0	
armemd	Error	3505	ARMLOAD detected that the application (watchID=%2) of the group %1has stopped. The server will shut down. Check what has caused the application to stop.	Application stopped	Check the cause for application to be stopped.	0	0					0	
armemd	Error	3506	ARMLOAD detected that the service (watchID=%2) of the group %1 has stopped. The number of failovers has reached the maximum count. Check what has caused the application to stop.	Service stopped	Check the cause for service to be stopped.	0	0					0	

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Module	Event	1	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID											
armemd	Error	3507	ARMLOAD detected that the service (watchID=%2) of the group %1 has stopped. Script will be restarted. Check what has caused the application to stop.	Service stopped	Check the cause for service to be stopped.	0	0					0	
armemd	Error	3508	ARMLOAD detected that the service (watchID=%2) of the group %1 has stopped. The service will be restarted. Check what has caused the application to stop.	Service stopped	Check the cause for service to be stopped.	0	0					0	
armemd	Error	3509	ARMLOAD detected that the service (watchID=%2) of the group %1 has stopped. The group will be failed over. Check what has caused the application to stop.	Service stopped	Check the cause for service to be stopped.	0	0					0	

Table 4.3 – continued from previous page

Module	Event	Even	Messages	ontinued from pre	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID	· <b>-</b>					-			-		
armcmd	Error	3510	ARMLOAD detected that the service (watchID=%2) of the group %1 has stopped. The server will shut down. Check what has caused the application to stop.	Service stopped	Check the cause for service to be stopped.	0	0					0	
armcmd	Error	3513	An error occurred in command %1. Shut down the server.	Command error	The system may not be able to operate properly.	0	O					0	
armemd	Warning	3514	An abnormal connection to the shared name (%1) has been detected.	Share-name abnormally	The shared name cannot be used. Recover the devices that correspond to the shared name. (1) OS is unstable. Check the OS status. (2) Check if the power is supplied to the appropriate devices. (3) Check if the appropriate devices and the servers are connected properly.	0	0					0	
armcmd	Information	3515	Connection to the shared name (%1) has been recovered.	Share-name re- covered	-	О	o						
armcmd	Warning	3516	Failed to start the application (WID=%2) of the group %1.	Application failed	Check the cause for failing to start the application.	О	o					O	

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID	. moodagee	2 cccpt.c	Coldiion	'	_		•			•	·
armemd	Information	3517	The ap-	Application	-	0	0						
			plication	restarted									
			(WID=%2) of										
			the group %1										
			has restarted.										
armcmd	Warning	3518	Failed to start	Service failed	Check the	0	0					0	
	8		the service		cause for fail-								
			(WID=%2) of		ing to start the								
			the group %1.		service.								
armcmd	Information	3519	The service	Service	-	О	0						
			(WID=%2) of	restarted		-							
			the group %1										
			has restarted.										
armemd	Error	3520	Failed to fail	Fail over failed	There may not	О	0					О	
	-		over the group		be a server		-					-	
			%1. Check		where the								
			whether the		group can fail								
			server where		over.								
			the group can										
			fail over exists.										
lcns	Information	3551	The trial		-	О	О						
			license is	Trial version									
			valid until	license									
			%1. (Product	(normal)									
			name:%2)										
lcns	Error	3552	The trial li-		Register the li-	О	О	О				О	
			cense has	Trial version	cense.								
			expired in	license									
			%1. (Product	(expired)									
			name:%2)	(****									
lcns	Warning	3553	The number	Insufficient	Register the li-	О	О					О	
			of licenses is		cense.								
			insufficient.										
			The number										
			of insufficient										
			licenses is										
			%1. (Product										
			name:%2)										
lens	Error	3554	The license	Not registered	Register the li-	О	О	О				О	
			is not regis-	_	cense.								
			tered. (Product										
			name:%1)										
lcns	Error	3555	The same	Repetition reg-	Delete the	О	О	О				О	
			license is reg-	istered	overlapping								
			istered with		license.								
			other servers.										
			(Product										
			name:%1)					l		ı			l

Table 4.3 – continued from previous page

		_		ontinued from pre		-			_	_	_	_	_
Module Type	Event Type	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
lens	Error	3556	Manufacturer	Invalid man-	Confirm the	0	0	0				0	<del>                                     </del>
iciis	Lifoi	3330	or model of	ufacturer or	manufacturer	"						U	
			this server is	model	or model.								ĺ
			invalid.	inodei	of illodel.								ĺ
lens	Emon	3558	The registered	The license is	Danistan tha							_	-
ICHS	Error	3338	license is in-	invalid.	Register the valid lincense.	О	0	0				0	ĺ
			valid. (Product	ilivaliu.	vanu inicense.								ĺ
			,										ĺ
			name:%1, Se-										ĺ
1	T. C	2550	rial No:%2)	T. 1 . 1.									-
lens	Information	3559	The fixed	Fixed term li-	_	О	О						ĺ
			term license is	cense (normal)									ĺ
			effective until										ĺ
			%1. (Product										ĺ
			name:%2)										
lcns	Error	3560	The fixed term	Fixed term li-	Register the li-	0	o	О				o	
			license has	cense (expired)	cense.								ĺ
			expired in										ĺ
			%1. (Product										ĺ
			name:%2)										
logcmd	Information	3601		log command	-	О	Х	Х	Х	Х	X	X	Х
diskw	Warning	3701	Monitor %1	monitor de-	-	0	0	О				О	
			was delayed.	layed									ĺ
			(timeout=%2										ĺ
			response										ĺ
			time=%3										ĺ
			rate=%4)										
userw	Warning	3711	Monitor %1	monitor de-	-	О	О	О				О	
			was delayed.	layed									ĺ
			(timeout=%2										ĺ
			response										ĺ
			time=%3										ĺ
			rate=%4)										
mail	Error	4101	mail	Mail failed	Make sure	0	0	0				0	
.,			failed(%1).(SM7		there is no							-	İ
			server: %2)	_	error in the								ĺ
			561 (61. 702)		SMTP server								ĺ
					and no prob-								ĺ
					lem communi-								ĺ
					cating with the								ĺ
					SMTP server.								ĺ
mail	Information	4102	mail suc-	Mail suc-	SWIII SCIVEI.		0	0					
111411	Intormation	1102	ceed.(SMTP	ceeded									İ
			server: %1)	Cecaca									
apisv	Information	4301	There was	Cluster stop	_	0		0					
apisv	Information	7301	a request to	Cluster stop									
			stop clus-										
			ter from the										
			%1(IP=%2).										
			/01(1F=702).				 anti		<u> </u>				<u> </u>

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID	Moccagoo	2 ccomption	Colation	'			•			•	ĺ
apisv	Information	4302	There was	Cluster shut-	_	0		0					
r			a request to	down									ĺ
			shutdown clus-										ĺ
			ter from the										ĺ
			%1(IP=%2).										ĺ
apisv	Information	4303	There was	Cluster restart	-	О		0					
1			a request to										ĺ
			reboot clus-										ĺ
			ter from the										ĺ
			%1(IP=%2).										ĺ
apisv	Information	4304	There was	Cluster sus-	-	О		О					
•			a request to	pend									ĺ
			suspend clus-										ĺ
			ter from the										ĺ
			%1(IP=%2).										ĺ
apisv	Information	4310	There was a re-	Cluster service	-	0		О					
			quest to stop	stop									ĺ
			server from the										ĺ
			%1(IP=%2).										ĺ
apisv	Information	4311	There was	Shutdown	-	О		О					
			a request to										ĺ
			shutdown										ĺ
			server from the										ĺ
			%1(IP=%2).										
apisv	Information	4312	There was a re-	Restart	-	О		О					ĺ
			quest to reboot										ĺ
			server from the										ĺ
			%1(IP=%2).										<u> </u>
apisv	Information	4330	There was a	Group start	-	О		0					ĺ
			request to start										ĺ
			group(%1)										ĺ
			from the										ĺ
	T.C.	4221	%2(IP=%3).	A 11									<b>-</b>
apisv	Information	4331	There was	All group start	-	0		О					ĺ
			a request to										ĺ
			start all groups										ĺ
			from the										ĺ
omin	Informatia	4222	%1(IP=%2).	Cassasses				_					<u> </u>
apisv	Information	4332	There was a	Group stop		О		0					l
			request to stop										
			group(%1) from the										l
			%2(IP=%3).										ĺ
apisv	Information	4333	$\frac{\%2(\Pi - \%3)}{\text{There}}  \text{was}$	All group stop	_	0		0					
apisv	mormation		a request to	in group stop									ĺ
			stop all groups										ĺ
			from the										ĺ
			%1(IP=%2).										ĺ
			701(11 - 702).										

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID	Moodagoo	Boomption	Colation	'	_		·			•	
apisv	Information	4334	There was a re-	Group restart	_	0		0					
			quest to restart					-					
			group(%1)										
			from the										
			%2(IP=%3).										
apisv	Information	4335	There was a re-	All group	-	О		О					
			quest to restart	restart									
			all groups										
			from the										
			%1(IP=%2).										
apisv	Information	4336	There was a re-	Group move	-	o		o					
			quest to move										ĺ
			group(%1)										
			from the										
	T. C.	4005	%2(IP=%3).	. 11									
apisv	Information	4337	There was a re-	All group	-	О		O					ĺ
			quest to move	move									
			all groups										ĺ
			from the %1(IP=%2).										
apisv	Information	4338	There was	Group failover	_	0		0					<u> </u>
apisv	Illioillation	4336	a request	Group ranover	_			U					ĺ
			to failover										ĺ
			group(%1)										ĺ
			from the										ĺ
			%2(IP=%3).										ĺ
apisv	Information	4339	There was	All group	-	О		О					
			a request	failover									ĺ
			to failover										
			all groups										
			from the										
			%1(IP=%2).										
apisv	Information	4340	There was	Group migra-	-	О		o					ĺ
			a request	tion									
			to migrate										
			group(%1) from the										ĺ
			from the %2(IP=%3).										ĺ
apisv	Information	4341	There was	All group mi-	_	0		0					<u> </u>
apisv	momation	TJ#1	a request	gration				J					
			to migrate	0.411011									
			all groups										
			from the										
			%1(IP=%2).										
apisv	Information	4342	There was	All group	-	О		О					
=			a request	failover									
			to failover										
			all groups										İ
1													ļ
			from the %1(IP=%2).										

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	ontinued from pre	Solution	1	2	3	4	5	6	7	8
Type	Type	ID	_										
apisv	Information	4343	There was a request to cancel waiting for the dependence destination group of group %1 was issued from the %2.	Cancel waiting	-	0		O					
apisv	Information	4350	There was a request to start resource(%1) from the %2(IP=%3).	Resource start	-	0		0					
apisv	Information	4351	There was a request to start all resources from the %1(IP=%2).	All resource start	-	0		0					
apisv	Information	4352	There was a request to stop resource(%1) from the %2(IP=%3).	Resource stop	-	0		0					
apisv	Information	4353	There was a request to stop all resources from the %1(IP=%2).	All resource stop	-	0		0					
apisv	Information	4354	There was a request to restart resource(%1) from the %2(IP=%3).	Resource restart	-	0		0					
apisv	Information	4355	There was a request to restart all resources from the %1(IP=%2).		-	0		0					
apisv	Information	4360	There was a request to suspend monitor resources from the %1(IP=%2).	Monitor temporary stop	-	0		0					
apisv	Information	4361	There was a request to resume monitor resources from the %1(IP=%2).	Monitor restart	-	O		0					

Table 4.3 – continued from previous page

Module	Event	Evon	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID	i wessages	Description	Solution	<b>'</b>	-	3	4	5	O	′	0
apisv	Information	4362	There was a re-	Dummy Fail-	_	О		_					
apisv	IIIIOIIIIauoii	4302		ure enabled	-	0		О					
			quest to enable	ure enabled									
			Dummy Fail-										
			ure of monitor										
			resource(%1)										
			from the										
	T. C	12.62	%2(IP=%3).	D D II									
apisv	Information	4363	There was a	Dummy Fail-	-	0		О					
			request to dis-	ure disabled									
			able Dummy										
			Failure of										
			monitor re-										
			source(%1)										
			from the										
	T. C	1261	%2(IP=%3).	A 11 D									
apisv	Information	4364	There was a	All Dummy	-	О		О					
			request to dis-	Failure dis-									
			able Dummy Failure of	abled									
			all monitor										
			resources from the										
oniou	Information	4370	%1(IP=%2). There was	CPU clock	_			_					
apisv	Illiormation	4370		control	-	О		0					
			a request to set CPU	Control									
			frequency										
			from the										
			%1(IP=%2).										
apisv	Error	4401	A request	Cluster stop	Check the	О		0					
apisv	Litoi	7701	to stop	failure	cluster status.	"							
			cluster was	landic	Cluster status.								
			failed(%1).										
apisv	Error	4402	A request	Cluster shut-	Check the	О		0					
up10 v	21101	1.102	to shutdown		cluster status.								
			cluster was										
			failed(%1).										
apisv	Error	4403	A request	Cluster restart	Check the	0		0					
			to reboot	failure	cluster status.								
			cluster was										
			failed(%1).										
apisv	Error	4404	A request	Cluster sus-	Check the	О		0					
T	-		to suspend	pend failure	cluster status.								
			cluster was	•									
			failed(%1).										
apisv	Error	4410	A request to	Cluster service	Check the	О		О					
_			stop server was	stop failure	cluster status.								
			failed(%1).	_									
			· · · · · · · · · · · · · · · · · · ·		1		o n ti		<del></del>				

Table 4.3 – continued from previous page

Madula	F	Г		ontinued from pre		-		_	4	_	_	_	_
Module Type	Event Type	ID	t Messages	Description	Solution	1	2	3	4	5	6	1	8
apisv	Error	4411	A request to shutdown server was failed(%1).	Server shut- down failure	Check the server status.	O		O					
apisv	Error	4412	A request to reboot server was failed(%1).	Server restart failure	Check the server status.	0		0					
apisv	Error	4430	A request to start group(%1) was failed(%2).	Group start failure	Check the group status.	O		O					
apisv	Error	4431	A request to start all groups was failed(%1).	All group start failure	Check the group status.	0		O					
apisv	Error	4432	A request to stop group(%1) was failed(%2).	Group stop failure	Check the group status.	0		O					
apisv	Error	4433	A request to stop all groups was failed(%1).	All group stop failure	Check the group status.	0		O					
apisv	Error	4434	A request to restart group(%1) was failed(%2).	Group restart failure	Check the group status.	O		O					
apisv	Error	4435	A request to restart all groups was failed(%1).	All group restart failure	Check the group status.	O		O					
apisv	Error	4436	A request to move group(%1) was failed(%2).	Group move failure	Check the group status.	O		O					
apisv	Error	4437	A request to move all groups was failed(%1).	All group move failure	Check the group status.	O		0					
apisv	Error	4438	A request to failover group(%1) was failed(%2).	Group failover failure	Check the group status.	О		O					
apisv	Error	4439	A request to failover all groups was failed(%1).	All group failover failure	Check the group status.	0		O					

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Type	ID	J										
apisv	Error	4440	A request to migrate group(%1) was failed(%2).	Group migration failure	Check the group status.	0		0					
apisv	Error	4441	A request to migrate all groups was failed(%1).	All group migration failure	Check the group status.	0		0					
apisv	Error	4442	A request to failover all groups was failed(%1).	All group failover failure	Check the group status.	0		0					
apisv	Error	4443	A request to cancel waiting for the dependency destination group of group %s has failed(%1).	Cancel waiting failure	Check the group status.	0		0					
apisv	Error	4450	A request to start re- source(%1) was failed(%2).	Resource start failure	Check the resource status.	О		0					
apisv	Error	4451	A request to start all resources was failed(%1).	All resource start failure	Check the resource status.	0		О					
apisv	Error	4452	A request to stop re- source(%1) was failed(%2).	Resource stop failure	Check the resource status.	0		0					
apisv	Error	4453	A request to stop all resources was failed(%1).	All resource stop failure	Check the resource status.	0		0					
apisv	Error	4454	A request to restart re- source(%1) was failed(%2).	Resource restart failure	Check the resource status.	0		0					
apisv	Error	4455	A request to restart all resources was failed(%1).	All resource restart failure	Check the resource status.	0		0					

Table 4.3 – continued from previous page

Module	Event	Evon		Description	Solution	1	2	3	4	5	6	7	8
		ID	t Messages	Description	Solution	'	_	٥	4	3	О	′	0
Type	Type		A	Manitan tan	Class 1 - 41 - 4			_					
apisv	Error	4460	A request	Monitor tem-	Check the	О		О					
			to suspend	porary stop	monitor re-								
			monitor re-	failure	source status.								
			source was										
			failed(%1).										
apisv	Error	4461	A request	Monitor restart	Check the	0		o					
			to resume	failure	monitor re-								
			monitor re-		source status.								
			source was										
			failed(%1).										
apisv	Error	4462	A request	Dummy Fail-	Check the	О		О					
			to enable	ure enabled	monitor re-								
			Dummy Fail-		source status.								
			ure of monitor										
			resource(%1)										
			was										
			failed(%2).										
apisv	Error	4463	A request	Dummy Fail-	Check the	О		О					
-			to disable	ure disabled	monitor re-								
			Dummy Fail-		source status.								
			ure of monitor										
			resource(%1)										
			was										
			failed(%2).										
apisv	Error	4464	A request	All Dummy	Check the	0		О					
1			to disable	Failure dis-	monitor re-								
			Dummy Fail-	abled	source status.								
			ure of all										
			monitor re-										
			source was										
			failed(%1).										
apisv	Error	4470	A request	CPU clock	Check if the	0		0					=
P-23,		,5	to set CPU	control failure	server handles								
			frequency was		CPU clock								
			failed(%1).		control.								
apisv	Error	4480	Initializing	Initializing in-	Check if an	0		0					
up15 v	21101		internal com-	ternal commu-	application								
			munication	nication failed.	other than								
			(%1) failed	incation fanca.	EXPRESS-								
			(port=%2).		CLUSTER								
			(port= /02).		uses the port.								
userw	Warning	5001	Monitor %1	Monitor de-	-	0	0	0				0	=
USC1 W	,,,,,,,,,,,,,	3001	was delayed.	layed								9	
			(timeout=%2	,									
			response										
			time=%3										
			rate=%4)										
			1410-70+)			<u> </u>	<u> </u>		<u> </u>				

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Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID											
genw	Warning	5151	Since loss of	Since loss of	-	o	o						
			the target script	the target script									
			(%1) has been	(%1) has been									
			detected, it was	detected, it was									
			rebooted.	rebooted									
	Warning	10001	%1	Error message	Take appropri-	0	X	X	X	X	X	X	X
db2				for each mon-	ate action for								
ftp				itored applica-	the application								
http				tion.	failure by fol-								
imap4					lowing the er-								
odbc					ror message.								
oracle													
otx													
pop3													
psql													
smtp													
sqlserver													
tux													
was													
wls													
İ								1	l		l		

Table 4.3 – continued from previous page

Event	Fven		<u> </u>		1	2	3	4	5	6	7	8
		www	Description	Joidholl	'	_		•			,	
	1 1	The API Error	API error of	Take appropri-	0	х	Х	Х	Х	X	X	X
C		of Windows	Windows has	ate action for								
		occurred.%1	occurred. %1	the OS failure								
			is API error	by following								
			code.	the error code.								
V												
Warning	4901	Monitor %1 is	Monitor warn	Check the	О	О	О				О	
		in the warning		cause of								
		status. (%2 :		Warning.								
		,										
Warning	4902				О	0	0				О	
			resource									
		valid. (%2: %3)		data.								
			I .	uaia.	I	l	l	l	i .	1	1	i e
Error	4903	,	monitor start-	The system	O	n	n	n	Ω		0	Ω
Error	4903	Failed to start	monitor start- ing failed	The system may not be	0	0	0	0	0		O	O
Error	4903	,	monitor start- ing failed	The system may not be able to operate	0	0	0	0	0		0	0
	Event Type Warning  Warning  Warning	Type ID Warning 10002  Warning 4901	Event Type ID Warning 10002 The API Error of Windows occurred.%1  Warning 4901 Monitor %1 is in the warning status. (%2: %3)  Warning 4902 Configuration of %1 is invalid. (%2:	Event Type ID  Warning 10002 The API Error of Windows occurred.%1 is API error code.  Warning 4901 Monitor %1 is in the warning status. (%2 : %3)  Warning 4902 Configuration of %1 is invalid. (%2 : was i	Warning   10002   The API Error of Windows occurred.%1   is API error code.   Take appropriate action for the OS failure by following the error code.    Warning   4901   Monitor %1 is in the warning status. (%2 : %3)   Warning   4902   Configuration of %1 is invalid monitor ward of warning valid. (%2 : was in the warning status. (%2 : was in the warning valid. (%3 : was in the warning valid. (%3 : was in the warning valid. (%3 : was in the wa	Event Type   10   The API Error of Windows occurred.%1   API error of Windows occurred.%1   SaPI error of the OS failure by following the error code.      Warning   4901   Monitor %1 is in the warning status. (%2 : %3)   Warning   4902   Configuration of %1 is invalid. (%2 : walls)   Check the occurred of Windows has occurred. %1 is API error the OS failure by following the error code.      Warning   4901   Monitor %1 is in the warning status. (%2 : %3)   Warning warning warning of %1 is invalid monitor of %1 is invalid monitor of figuration figuration figuration figuration of %1 is invalid. (%2 : warning	Event Type   10   10002   The API Error of Windows occurred.%1   API error of Windows occurred.%1   SaPI error of the OS failure by following the error code.   Warning   4901   Monitor %1 is in the warning status. (%2 : %3)   Warning   4902   Configuration of %1 is in-valid. (%2 : warning warning warning walld. (%2 : warning warning warning walld. (%2 : warning	Event Type   Description   Solution   1   2   3	Event Type     Event ID     Messages ID     Description     Solution     1     2     3     4       Warning     10002     The API Error of Windows occurred.%1     API error of Windows has occurred. %1 is API error code.     Take appropriate action for the OS failure by following the error code.     Image: Company of the error code.     Image: Company of the error code.     Image: Company of the error code.       Warning     4901     Monitor %1 is in the warning status. (%2 : %3)     Monitor warn of warning.     Check the cause of Warning.     Image: Company of the course of warning.     Image: Company of the cause of warning.     Image: Company of the cause of warning.     Image: Company of the cause of warning.       Warning     4902     Configuration of %1 is invalid. (%2 : wall.)     Image: Company of the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check the cause of warning.     Image: Check th	Event Type   Event Messages   Description   Solution   1   2   3   4   5	Event Type   Top	Event Type   T

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

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Module	Event	Even	t Messages	ntinued from pre	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID	ooougoo	2 000p									
mrw	Error	4915	Failed to fail over %1 due to error detection of %2.	relation group failover failure	Check the status of resources.	0	0	О				O	
mrw	Error	4916	Failed to stop the cluster due to error detec- tion of %1.	cluster stop failure	The system may not be able to operate properly.	0	0	O				O	
mrw	Error	4917	Failed to shut down the sys- tem due to er- ror detection of %1.	os shutdown failure	The system may not be able to operate properly.	0	O	0				0	
mrw	Error	4918	Failed to restart the system due to error detection of %1.	os reboot fail- ure	The system may not be able to operate properly.	О	0	0				0	
mrw	Error	4919	The group of monitor %1 is unknown.	unknown group	Check the cluster configuration data.	0	O	O				O	
mrw	Warning	4920	No action is taken because %1 is not online.	not perform failure action	-	0	O	0				O	
mrw	Information	4921	Status of monitor %1 was returned to normal.	status changed into normal	-	0	O	O					
mrw	Information	4922	Status of monitor %1 was changed into unknown.	status changed into unknown	The system may not be able to operate properly.	O	O	O					
mrw	Error		Initialization error has oc- curred (%1 : %2)	process initial- ize error	The system may not be able to operate properly.	О	O	O				O	
mrw	Information	4924	Causing intentional stop error was required because an error is detected by %1.	intentional panic	-	0	0	O					

Table 4.3 – continued from previous page

Module	Event	Evon	t Messages	ontinued from pre	Solution	1	2	3	4	5	6	7	8
Type	Type	ID	wessages	Description	Solution		~	3	4	Э	О	1	0
mrw	Error	4925	Causing inten-	intentional	The system	0	0	0				0	
1111 VV	Litoi	7723	tional stop er-	panic failure	may not be							U	
			ror has failed	pame famare	able to operate								
			because an er-		properly.								
			ror is detected		property.								
			by %1.										
mrw	Warning	4926	Recovery	not recov-	Monitor re-	О	О	0				0	
			will not be	ery(server	source is not								
			executed	suspending)	recovered if								
			since server is		the server is								
			suspending.		suspended								
					(Network								
					Partition								
					Unsolved).								
					Check the								
					cause for being								
					suspended (Network								
					Partition Un-								
					solved) and								
					recover net-								
					work partition								
					resources to								
					the normal								
					status.								
mrw	Warning	4927	Shutdown	reached OS	-	О	О	О	О	o		О	О
			count reached	shutdown limit									
			the maximum										
			number (%1).										
			Final action of										
			monitor %2										
*******	Information	4029	was ignored.	Commet hafana									
mrw	Information	4928	Script before action(%1)	Script before final action	-	0	0	0					
			upon failure in %2 mon-	upon moni- tor resource									
			itor resource	failure started.									
			started.	Tarraro Startou.									
mrw	Information	4929	Script before	Script before	-	0	0	0					
			action(%1)	final action									
			upon failure	upon monitor									
			in %2 mon-	resource fail-									
			itor resource	ure completed.									
			completed.										
mrw	Information	4930	Script before	Script before	-	О	О	О					
			action(%1)	final action									
			upon failure	upon moni-									
			in %2 mon-	tor resource									
			itor resource	failure has									
			failed.	failed.		L	onti		L				

Table 4.3 – continued from previous page

Madula	E. cont	Гиан		ntinued from pre		4		2	4	-		7	0
Module Type	Event Type	ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
mrw	Information	4931	Recovery script has exe- cuted because an error was detected in monitoring %1.	Recovery script upon monitor re- source failure executed		0	0	0					
mrw	Error	4932	to execute recovery script due to the error detected in monitoring %1, but failed.	failed to ex- ecute recovery script	Check the cause of the recovery script failure and take measures.	0	0	0					
mrw	Warning	4933	Ignored the recovery action in monitoring %1 because recovery action caused by monitor resource error is disabled.	not recovery (recovery action caused by monitor resource error has disabled)	-	O	0	O					
mrw	Information	4934	There was a notification (%1) from external. (detail: %2)	An error notification from external was received.	-	O	0	0					
tuxw	Warning	10004	The API Error of Application occurred.%1	API error of application has occurred. %1 is API error code.	Take appropriate action for the application failure by following the error code.	0							
jra	Error	20251	Internal processing has failed. (%1)	An internal error occurred. %1: Internal error code	Check if JVM monitor resource is running. If not, restart the server.		0						
jra	Error	20252	Startup has failed due to an error of the setting value. (%1)	Specified setting value is invalid. %1: Internal error code	Check if the Java installa- tion path is correct.		O						
							nti	nuc	<u>.a.</u>	<u></u>	0)/t	200	

Table 4.3 – continued from previous page

Module	Event	Evon		ntinued from pre	Solution	1	2	3	1	5	6	7	Q
		Even	Messages	Description	Solution	'		J	4	၁	6	1	8
Type sra	Type Error	20301	Service was terminated because reading an SG file failed.	An error occurred in reading the setting file.	Check the message separately issued.		0						
sra	Error	20302		The installation folder name could not be acquired.	Restart the cluster, or execute the suspend and resume.		0						
sra	Error	20305	No IModules could be loaded.	Some files required to execute this product do not exist. So, this product failed to start.	Install this product again.		O						
sra	Error	20306	An unexpected error occurred.	An attempt was made to start this product, but failed for some reason or another.	Restart the cluster, or execute the suspend and resume.		0						
sra	Error	20307	Internal error occurred.	This product has terminated abnormally.	See the system log message issued last.		0						
sra	Error	20308	An error has occurred in issuing WMI. %1(Er-rorID:0x%2 class:%3) %1: Message %2: Error code %3: Information that could not be acquired	Statistics information could not be acquired. %1: Message %2: Error code %3: Information that could not be acquired	Restart the cluster, or execute the suspend and resume.		0						

Table 4.3 – continued from previous page

Module	Event	Even		ntinued from pre		4	_	2	1	E	e	7	n
Module Type	Event Type	Eveni   ID	Messages	Description	Solution	1	2	3	4	5	6	7	8
sra	Warning	20336	Script is timeout. (%1 %2) %1: Script file name %2: Argument	An internal error has occurred.	Check the load status of the server and re- move the load.		0						
sra	Information	20346	%1 event succeeded. %1: Event type (Boot, Shutdown, Stop, Start, or Flush)	The operation management command has been executed. The executed event type %1 (boot, shutdown, stop, start, or flush) is output.	-		0						
sra	Warning	20347	%1 was smaller than %2, it changed to minimum value(%3).	The configuration value of the monitoring is not correct. %1:Variable name %2:Variable name %3:configured value	Check the configured value on the Cluster WebUI.		0						
sra	Warning	20348	1 was too long compared with %2, it changed to %1(%3).	The configuration value of the monitoring is not correct. %1:Variable name %2:Variable name %3:configured value	Check the configured value on the Cluster WebUI.		0						

Table 4.3 – continued from previous page

Module	Event	Event	Messages	ontinued from pre	Solution	1	2	3	4	5	6	7	8
Type	Type	ID	_	'									
sra	Warning	20349	smaller than %2, it changed to %2 value(%3).	The configuration value of the monitoring is not correct. %1:Variable name %2:Variable name %3:configured value	Check the configured value on the Cluster WebUI.		0						
sra	Warning	20350	0 %1 was larger than %2, it changed to %2 value(%3).	The configuration value of the monitoring is not correct. %1:Variable name %2:Variable name %3:configured value	Check the configured value on the Cluster WebUI.		0						
sra	Warning	20351	%1 was over than Total disk size, %2.	The configuration value of the monitoring is not correct. %1:Variable name %2:configured value	Check the configured value on the Cluster WebUI.		0						
sra	Warning	20352	%1 was over than Total disk size, %2.	The configuration value of the monitoring is not correct. %1:Variable name %2:configured value	Check the configured value on the Cluster WebUI.		o						

Table 4.3 – continued from previous page

Module	Event	Even	t Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID										-	
sra	Warning	20353	Delete MOUNT[%1] in DiskCapac- ity list.	The configuration value of the monitoring is not correct. %1:configured value	Check the configured value on the Cluster WebUI.		O						
sra	Warning	20354	%1 was illegal value (%2).	The configuration value of the monitoring is not correct. %1:Variable name %2:configured value	Check the configured value on the Cluster WebUI.		0						
sra	Warning	20355	The DriveLetter of %1 is not ready, or Drive type was not fixed.(DriveLette = %2)	The configuration value of the r monitoring is not correct. %1:Variable name %2:configured value	Check the configured value on the Cluster WebUI.		O						
sra	Error	20358	A process resource error was detected. (type = cpu, pid = %1, %2)	An error was detected in monitoring the CPU usage rate of the specific process. %1:Process ID %2:Process name	Check the possible causes of the monitoring failure.	0	0						

Table 4.3 – continued from previous page

Module	Event	Fven	Messages	ntinued from pre	Solution	1	2	3	4	5	6	7	8
Type	Type	ID	www	Description	Joidion	'	_		_ T	5	J	'	J
sra	Error	20358	resource error was detected. (type = memory leak, pid = %1, %2)	An error was detected in monitoring the memory usage of the specific process. %1:Process ID %2:Process name	Check the possible causes of the monitoring failure.	0	0						
sra	Error	20358	resource error was detected. (type = file leak, pid = %1, %2)	An error was detected in monitoring the number of the open files of the specific process. %1:Process ID %2:Process name	Check the possible causes of the monitoring failure.	0	0						
sra	Error	20358	resource error was detected. (type = thread leak, pid = %1, %2)	An error was detected in monitoring the number of the threads of the specific process. %1:Process ID %2:Process name	Check the possible causes of the monitoring failure.	0	0						
sra	Error	20358	resource error was detected. (type = same name process, pid = %1, %2)	An error was detected in monitoring a process with the same name. %1:Process ID %2:Process name	Check the possible causes of the monitoring failure.	0	0						

Table 4.3 – continued from previous page

Module	Event	Fyen	Messages	Description	Solution	1	2	3	4	5	6	7	8
Type	Туре	ID	wiessayes	Description	Colution	<b>'</b>	_	٦	-	5	J	′	J
sra	Error	20359	A system	An error was	Check the pos-	0	0						
			resource error	detected in	sible causes of								
			was detected.	monitoring the	the monitoring								
			(type = cpu)	CPU usage	failure.								
				rate of the									
				system.									
sra	Error	20359	•	An error was	Check the pos-	0	0						
			resource error	detected in	sible causes of								
			was detected.	monitoring the	the monitoring								
			(type = mem-	usage amount	failure.								
			ory)	of the total									
				memories of									
				the system.									
sra	Error	20359	•	An error was	Check the pos-	О	О						
			resource error	detected in	sible causes of								
			was detected.	monitoring the	the monitoring								
			(type = swap)	usage amount	failure.								
				of the total vir-									
				tual memories									
		20266		of the system.									
sra	Error	20360			Check the pos-	О	О						
			source error	A notice-level	sible causes of								
			was detected.	error was	the monitoring								
			(type = used	detected in	failure.								
			rate, level =	monitoring the									
			NOTICE, %1)	disk usage									
				rate.									
				%1:Logical									
				drive									
sra	Error	20360	A disk re-		Check the pos-	0	0						
			source error	A	sible causes of								
			was detected.	warning-level	the monitoring								
			(type = used)	error was	failure.								
			rate, level =										
			WARNING,	monitoring the									
			%1)	disk usage									
			,	rate.									
				%1:Logical									
				drive									

Table 4.3 – continued from previous page

Madula	Frant	Гиол		ntinued from pre		4	_	_	4	-		7	_
Module Type	Event Type	ID	Messages	Description	Solution	1	2	3	4	5	6	/	8
sra	Error	20360	A disk resource error was detected. (type = free space, level = NOTICE, %1)	A notice-level error was detected in monitoring the free space of disks. %1:Logical drive	Check the possible causes of the monitoring failure.	O	O						
sra	Error	20360	A disk resource error was detected. (type = free space, level = WARNING, %1)	A warning-level error was detected in monitoring the free space of disks. %1:Logical drive	Check the possible causes of the monitoring failure.	0	0						
webmgr	Warning	5121	HTTPS configuration isn't correct, HTTPS mode doesn't work. Please access WebManager by HTTP mode.	Invalid HTTPS setting	-	O	O	O					
SSS	Error	20004	Failed to get the system drive letter.	The system drive letter could not be acquired.	The system may not be able to operate properly.			O					
SSS	Error		Failed to get the server name.	The server name could not be acquired.	The system may not be able to operate properly.			0					
SSS	Info	20006	name has been updated.	The server name has been updated.	-	0		0					
SSS	Error	20007	Failed to update the configuration file.	The configuration file could not be updated.	Check the configuration data.	0		0					
SSS	Info	20008	The configuration file has been updated.	The configuration file has been updated.	-			O					

Table 4.3 – continued from previous page

Module	Event	Even	Messages	Description	Solution	1	2	3	4	5	6	7	8
Туре	Туре	ID											
SSS	Error		The content of the configura- tion file is in- valid.	The content of the configura- tion file is in- valid.	Check the configuration data.			O					
SSS	Error	20010	Failed to start %1 service.	The %1 service could not be started.	The system may not be able to operate properly.	O		0					
SSS	Info		%1 service has been started.	The %1 service has been started.	-			0					
SSS	Info		%1 service has been stopped.	The %1 service has been stopped.	-			O					
SSS	Info	20014	The redundant module of the LAN board has been started.	The redundant module of the LAN board has been started.	Memory or OS resources may not be sufficient. Check them.			0					
SSS	Error	20015	Failed to start the redundant module of the LAN board.	The redundant module of the LAN board could not be started.	-	0		0					
ncctl	Error	20101	An error was detected in LAN board %1.	An error was detected in LAN board %1.	Check whether the settings of the standby LAN board are correct.	0		0					
ncctl	caution		Changing LAN board %1 to LAN board %2.	LAN board %1 will now be switched to LAN board %2.	-	0		0					
ncctl	Error	20103	The operation of LAN board %1 failed.	The operation of LAN board %1 failed.	-	0		0					

## 4.3 Driver event log messages

#### 4.3.1 Kernel mode LAN heartbeat driver

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

Module	Event	Event	Message	Description	Solution
Type	Type	ID			
clphb	Error	3001	Fatal error occurred in	Fatal error occurred in	Kernel memory or OS
			the driver.	the driver.	resource may not be suf-
					ficient. Check with per-
					formance monitor.
clphb	Info	1001	Signal has been set to	User mode is stalled.	Kernel memory or OS
			the shutdown event due		resource may not be suf-
			to the keep alive timeout.		ficient. Check with per-
					formance monitor.
clphb	Info	1002	Signal has been set to the	Received FILTER clos-	Kernel memory or OS
			shutdown event due to	ing action.	resource may not be suf-
			the FILTER closing ac-		ficient. Check with per-
			tion.		formance monitor.

# 4.4 Detailed information in activating and deactivating group resources

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

## 4.4.1 Application resource

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

## 4.4.2 Script resource

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

Table 4.6 – continued from previous page

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

#### 4.4.3 Service resource

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

#### 4.4.4 Virtual machine resource

Module Type	Туре	Return Value	Message	Description	Solution
vm	Error	5	Virtual Machine configuration data is invalid.	The configuration file of the virtual machine may be invalid.	Check if VM configuration file path is correct.

Table 4.8 – continued from previous page

Module	Type	Return	Message	Description	Solution
Туре	,,	Value	J	1	
vm	Error	6	Virtual machine has been already started.	The virtual machine failed to start because the virtual machine has been already started.	Check the status of the virtual machine.
vm	Error	7	Hyper-V Virtual Machine Management service has not started yet.	Hyper-V Virtual Machine Management has not started yet.	Check the status of Hyper-V Virtual Machine Management service.
vm	Error	8	Failed to start virtual machine.	Failed to start virtual machine.	Check the status of the virtual machine and if the configuration file is valid.
vm	Error	9	Failed to stop virtual machine.	Failed to stop virtual machine.	Check the status of the virtual machine.
vm	Error	10	Failed to save virtual machine.	Failed to temporarily stop and export the virtual machine.	Check if the status of the virtual machine is Running on Hyper-V manager.
vm	Error	11	Failed to resume virtual machine.	Failed to import and restart the virtual machine.	Check if VM configuration file path is correct.
vm	Error	13	Timeout occurred.	It took much time to import, export, start or stop the virtual machine.	Check if the timeout value is proper.
vm	Error	Others	Internal error occurred.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

## 4.5 Detailed information of monitor resource errors

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

## 4.5.1 Application monitor resource

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

#### 4.5.2 DB2 monitor resource

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

Table 4.10 – continued from previous page

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

#### 4.5.3 Disk RW monitor resource

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

Table 4.11 – continued from previous page

Module	Туре	Return	Message	Description	Solution
Туре	.,,,,,	Value	moodago	2000111211	Colditori
diskw	Error	72	Timeout has occurred when writing in the file.	Timeout has occurred when writing in the file.	Check if the monitoring target disk is connected properly, the disk is powered on, or no other errors are occurred on the disk. The system may be under high load, or memory or OS resources may not be sufficient. Check them.
diskw	Error	73	Timeout has occurred when synchronizing the disk of the file.	Timeout has occurred when synchronizing the disk of the file.	Check if the monitoring target disk is connected properly, the disk is powered on, or no other errors are occurred on the disk. The system may be under high load, or memory or OS resources may not be sufficient. Check them.
diskw	Error	74	Timeout has occurred when closing the file.	Timeout has occurred when closing the file.	Check if the monitoring target disk is connected properly, the disk is powered on, or no other errors are occurred on the disk. The system may be under high load, or memory or OS resources may not be sufficient. Check them.
diskw	Warning	100	Failed to add keep alive drive when initializing keep alive driver.	Failed to add keep alive drive when initializing keep alive driver.	Memory or OS resources may not be sufficient. Check them.
diskw	Warning	101	There is not enough disk space.	There is not enough disk space.	Secure free space on the monitoring target disk.
diskw	Warning	102	Timeout has occurred when initializing internal resources.	Timeout has occurred when initializing internal resources.	Memory or OS resources may not be sufficient. Check them.
diskw	Warning	103	Timeout has occurred when other timing.	Timeout has occurred when other timing.	The system may be under high load, or memory or OS resources may not be sufficient. Check them.
diskw	Warning	104	Failed to allocate memory.	Failed to allocate memory.	Memory or OS resources may not be sufficient. Check them.
diskw	Warning	105	Internal error occurred.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.

Table 4.11 – continued from previous page

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

## 4.5.4 FTP monitor resource

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

#### 4.5.5 Custom monitor resource

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

#### 4.5.6 HTTP monitor resource

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

#### 4.5.7 IMAP4 monitor resource

Module Type	Туре	Return Value	Message	Description	Solution
imap4w	Error	11	An error was detected in accessing the monitor target.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as an IP address). If there is no error, check if the monitor applica- tion has errors.

Table 4.15 – continued from previous page

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

#### 4.5.8 IP monitor resource

## **EXPRESSCLUSTER X SingleServerSafe 4.3 for Windows Operation Guide, Release 1**

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

## 4.5.9 NIC Link Up/Down monitor resource

Module	Туре	Return	Message	Description	Solution
Type		Value			
miiw	Error	4	IP address does not exist.	IP address does not exist.	NIC may have been dis-
					abled. Check if the IP
					address of the specified
					NIC exists by the ipcon-
					fig command.
miiw	Error	8	Detected NIC Link	Detected NIC Link	Check if the LAN cable
			Down.	Down.	is connected properly.
miiw	Warning	105	Failed to get the IP ad-	Failed to get the IP ad-	Memory or OS resources
			dress list.	dress list.	may not be sufficient.
					Check them.
miiw	Warning	106	Failed to get the NIC in-	Failed to get the NIC in-	Memory or OS resources
			terface name.	terface name.	may not be sufficient.
					Check them.
miiw	Warning	107	Failed to get the NIC sta-	Failed to get the NIC sta-	Check if the NIC device
			tus.	tus.	is supported by the de-
					vice I/O controller.
miiw	Warning	189	An internal error has oc-	An internal error has oc-	Memory or OS resources
			curred.	curred.	may not be sufficient.
					Check them.

#### 4.5.10 Multi target monitor resource

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

#### 4.5.11 Process name monitor resource

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

#### 4.5.12 ODBC monitor resource

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

Table 4.20 – continued from previous page

Madula	T	D - 1	Table 4.20 – Continued	· · · · · · · · · · · · · · · · · · ·	Calutian
Module	Type	Return	Message	Description	Solution
Туре	***	Value		TTI C 1 1 2	C1 1 1 2 1
odbcw	Warning	102	The configured value is not correct.	The configured value of the monitoring is not correct.	Check the configured value on the Cluster WebUI because it may not be correct.
odbcw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.
odbcw	Error	11	An error was detected in accessing the monitor target.	The access to the database failed.	Check configured values on the Cluster WebUI (such as a database name). If there is no error, check the database has errors.
odbew	Warning	112	An error was detected in user authentication.	The access to the database failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the database has errors.
odbcw	Warning	113	An application error was detected.	The database error was detected.	Refer to error messages for database described separately to fix errors.
odbew	Error	14	An error was detected in executing SQL statement [%1].	Executing SQL statement failed.  The executed SQL statement is displayed on %1.	Refer to error messages for database described separately to fix errors.
odbew	Error	15	A data error was detected.	A value on the table of database has an error.	Database may be corrupt. Stop the database operation and investigate it. This error may occur when more than one monitoring is performed with the same monitor table name concurrently. Check if the values set in the multi-directional environment are appropriate.
odbcw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
odbcw	Warning	160	Failed to obtain the configuration data.	The configured value could not be obtained.	OS may have errors. Restart the server or take other actions

Table 4.20 – continued from previous page

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

#### 4.5.13 Oracle monitor resource

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

Table 4.21 – continued from previous page

Module	Туре	Return	Message	Description	Solution
Type	71	Value			
oraclew	Error	15	A data error was de-	A value on the table of	Database may be cor-
oraciew	Littor	13	tected.	database has an error.	rupt. Stop the database
			teeteu.	database nas an enon.	operation and investigate
					it. This error may oc-
					cur when more than one
					monitoring is performed
					with the same monitor
					table name concurrently.
					Check if the values set in
					the multi-directional en-
					vironment are appropri-
					ate.
oraclew	Warning	140	No license is registered.	The license has not been	Register the license.
				registered.	
oraclew	Warning	160	Failed to obtain the con-	The configured value	OS may have errors.
			figuration data.	could not be obtained.	Restart the server or take
					other actions.
oraclew	Warning	190	Internal error.	Internal error occurred.	Memory or OS resources
					may not be sufficient.
					Check them.

#### 4.5.14 POP3 monitor resource

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

Table 4.22 – continued from previous page

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

## 4.5.15 PostgreSQL monitor resource

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

Table 4.23 – continued from previous page

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

#### 4.5.16 Service monitor resource

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

#### 4.5.17 SMTP monitor resource

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

Table 4.25 – continued from previous page

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

## 4.5.18 SQL Server monitor resource

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

Table 4.26 – continued from previous page

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

## 4.5.19 Tuxedo monitor resource

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

Table 4.27 – continued from previous page

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

#### 4.5.20 VM monitor resource

Module	Type	Return	Message	Description	Solution
Type		Value			
vmw	Error	12	Virtual machine is un-	The status of the virtual	Check the status of
			normal [%1]	machine is other than	the virtual machine on
				Running.	Hyper-V manager.
vmw	Error	Others	Internal error occurred.	Internal error occurred.	Memory or OS resources
					may not be sufficient.
					Check them.

## 4.5.21 Websphere monitor resource

Module Type	Туре	Return Value	Message	Description	Solution
wasw	Error	12	An error was detected in user authentication.	The access to the monitor application failed.	Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the mon- itor application has er- rors.
wasw	Warning	110	A function error was detected.	A function error occurred.	Monitor applications or OS may have errors. Check the status of the system.

Table 4.29 – continued from previous page

Module Type	Туре	Return Value	Message	Description	Solution
wasw	Warning	113	An application error was detected.	The monitor application error was detected.	Refer to error messages for monitor applications described separately to fix errors.
wasw	Warning	140	No license is registered.	The license has not been registered.	Register the license.
wasw	Warning	188	Internal error.	Internal error occurred.	Memory or OS resources may not be sufficient. Check them.
wasw	Warning	190	Initialization has failed[%1].	Initialization process has failed. It may be due to memory allocation failure or a failure in obtaining the configured value.  Information on the initialization may be displayed on %1.	The configured value of the Cluster WebUI may be incorrect. Check the value. If there is no problem with the value, OS itself may have er- rors. Restart the server or take other actions.

## 4.5.22 Weblogic monitor resource

in accessing the monitor target.  In accessing the monitor target.  In the cluster WebUI (such as an IP address). If there is no error, check if the monitor application has errors.  In the cluster WebUI (such as an IP address). If there is no error, check if the monitor application has errors.  In the access to the monitor application failed.  In the access to the access to the monitor applica	Module	Туре	Return	Message	Description	Solution
in accessing the monitor target.  In the cluster WebUI (such as an IP address). If there is no error, check if the monitor application has errors.  In the cluster WebUI (such as an IP address). If there is no error, check if the monitor application has errors.  In the access to the monitor application failed.  In the access to the monitor appli	Type		Value			
target.    target.   (such as an IP address). If there is no error, check if the monitor application has errors.    Wlsw   Error   12	wlsw	Error	11	An error was detected		Check configured values
wlsw Error 12 An error was detected in user authentication.  Wlsw Warning 110 A function error was detected.  Warning 113 An application error was detected.  If there is no error, check if the monitor application failed.  If there is no error, check if the monitor application failed.  Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the monitor application has errors.  A function error occurred.  Warning 110 A function error was detected.  Warning 113 An application error was detected.  The monitor application Refer to error messages for monitor applications described separately to				in accessing the monitor	tor application failed.	
wlsw Error 12 An error was detected in user authentication.  Wlsw Error 12 An error was detected in user authentication.  Wlsw Warning 110 A function error was detected.  Wlsw Warning 113 An application error was detected.  Wlsw Warning 113 An application error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.  Warning 114 An application error was detected.  Warning 115 An application error was detected.				target.		l '
wlsw Error 12 An error was detected in user authentication.  Wlsw Warning 110 A function error was detected.  Wlsw Warning 113 An application error was detected.  Wlsw Warning 113 An application error was detected.  The access to the monitor application failed.  Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the monitor application has errors.  Monitor applications or OS may have errors.  Check the status of the system.  Wester to error messages for monitor applications described separately to						
wlsw Error 12 An error was detected in user authentication.  An error was detected in user authentication.  The access to the monitor application failed.  Check configured values on the Cluster WebUI (such as a user name or a password). If there is no error, check if the monitor application has errors.  Wlsw Warning 110 A function error was detected.  A function error occurred.  Warning 113 An application error was detected.  The monitor application Refer to error messages for monitor applications described separately to						
wisw Warning 110 A function error was detected.  wisw Warning 113 An application error was detected.  wisw Warning 113 An application error was detected.  wisw Warning 113 An application error was detected.  wisw Warning 113 An application error was detected.  wisw Warning 113 An application error was detected.  wisw Warning 113 An application error was detected.  wisw Warning 113 An application error was detected.  wisw Warning 113 An application error was detected.  wisw Warning 113 An application error was detected.						
wisw Warning 110 A function error was detected.  Warning 110 A function error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.	wlsw	Error	12	An error was detected in		
wlsw Warning 110 A function error was detected.  Warning 110 A function error was detected.  Warning 110 A function error was detected.  Warning 110 A function error was detected.  Warning 110 A function error was detected.  Warning 110 A function error was defected.  Warning 110 A function error was defected.  Warning 110 An application error was detected.				user authentication.	tor application failed.	on the Cluster WebUI
wlsw Warning 110 A function error was detected.  Warning 110 A function error was detected.  Warning 110 A function error was detected.  Warning 110 A function error was detected.  Warning 113 An application error was detected.  The monitor application Refer to error messages for monitor applications described separately to						(such as a user name or a
wlsw Warning 110 A function error was detected.  Warning 110 A function error was detected.  Warning 110 A function error was detected.  Warning 113 An application error was detected.  The monitor application Refer to error messages for monitor applications described separately to						1 -
wlsw Warning 110 A function error was detected.  Warning 110 A function error was detected.  Warning 113 An application error was detected.  Warning 113 An application error was detected.  The monitor application error messages for monitor applications described separately to						
wlsw     Warning     110     A function error was detected.     A function error occurred.     Monitor applications or OS may have errors. Check the status of the system.       wlsw     Warning     113     An application error was detected.     The monitor application error was detected.     Refer to error messages for monitor applications described separately to						itor application has er-
tected.  tected.  curred.  OS may have errors. Check the status of the system.  Wlsw Warning 113  An application error was detected.  The monitor application error messages for monitor applications described separately to						
wlsw Warning 113 An application error was detected. Check the status of the system.  The monitor application Refer to error messages for monitor applications described separately to	wlsw	Warning	110	A function error was de-	A function error oc-	1
wlsw Warning 113 An application error was detected. System.  The monitor application error was detected. Refer to error messages for monitor applications described separately to				tected.	curred.	OS may have errors.
wlsw Warning 113 An application error was detected. The monitor application error was detected. Refer to error messages for monitor applications described separately to						Check the status of the
detected. error was detected. for monitor applications described separately to						,
described separately to	wlsw	Warning	113	An application error was	The monitor application	Refer to error messages
				detected.	error was detected.	for monitor applications
						described separately to
						fix errors.
wlsw Warning 140 No license is registered. The license has not been Register the license.	wlsw	Warning	140	No license is registered.		Register the license.
registered.					registered.	Continued on poyt page

Table 4.30 – continued from previous page

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

#### 4.5.23 WebOTX monitor resource

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

Table 4.31 – continued from previous page

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

### 4.5.24 JVM monitor resource

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

## 4.5.25 System monitor resource

Module	Type	Return	Message	Description	Solution
Type		Value			
sraw	Error	11	1	An error was detected when monitoring system resources.	There may be an error with the resources.

### 4.5.26 Process resource monitor resource

Module	Type	Return	Message	Description	Solution
Type		Value			
psrw	Error	11		An error was detected	•
			,	U 1	ror with the resources.
			tected an error in moni-	cess resources.	Check them.
			toring process resource.)		

# 4.5.27 User space monitoring resource

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

## 4.6 STOP codes list of disk RW monitor resources

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

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

# 4.7 JVM monitor resource log output messages

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

The file is created in the following location:

JVM operation log: <*EXPRESSCLUSTER\_install\_path*>\log\ha\jra\jragent\*.log (\* indicates a number starting at 0.)

JVM load balancer linkage log: <EXPRESSCLUSTER\_install\_path>\log\ha\jra\lbadmin.log

### 4.7.1 JVM operation log

Message	Cause of genera-	Action
Failed to write the %1.stat.	Writing to the JVM statistics log has failed. %1 .stat: JVM statistics log file name	Check whether there is sufficient free disk space.
%1: analyze finish[%4]. state = %2, cause = %3	(When the status of the Java VM to be monitored is abnormal) the resource use amount has exceeded the threshold in the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: Status of Java VM to be monitored (1=normal, 0=abnormal) %3: Error generation location at abnormality occurrence %4: Measurement thread name	Review the Java application that runs on the Java VM to be monitored.

Table 4.37 – continued from previous page

Table 4.37 – continued from previous page				
Message	Cause of genera- tion	Action		
thread stopped by UncaughtException.	The thread of the JVM monitor resource has stopped.	Execute cluster suspend/cluster resume and then restart the JVM monitor resource.		
thread wait stopped by Exception.	The thread of the JVM monitor resource has stopped.	Execute cluster suspend/cluster resume and then restart the JVM monitor resource.		
%1: monitor thread can't connect to JVM.	The Java VM to be monitored could not be connected. %1: Name of the Java VM to be monitored	Check that the Java VM to be monitored is running.		
%1: monitor thread can't get the JVM state.	The resource use amount could not be acquired from Java VM to be monitored.  %1: Name of the Java VM to be monitored	Check that the Java VM to be monitored is running.		
%1: JVM state is changed [abnormal -> normal].	The status of the Java VM to be monitored has changed from abnormal to normal. %1: Name of the Java VM to be monitored	-		
%1: JVM state is changed [normal -> abnormal].	The status of the Java VM to be monitored has changed from normal to abnormal. %1: Name of the Java VM to be monitored	Review the Java application that runs on the Java VM to be monitored.		

Table 4.37 – continued from previous page

Table 4.37 – continued from previous page				
Message	Cause of genera- tion	Action		
%1: Failed to connect to JVM.	The Java VM to be monitored could not be connected.	Check that the Java VM to be monitored is running. %1: Name of the Java VM to be monitored		
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: GARBAGE_COLLECTOR_MXBEAN_DOMAIN_TYPE is invalid.	GC information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.		
%1: GarbageCollectorMXBean is invalid.	GC information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.		

Table 4.37 – continued from previous page

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

Table 4.37 – continued from previous page

Table 4.57 – Continued from pre		A - 1'
Message	Cause of genera-	Action
	tion	
%1: GC average time is too long. av = %6, last.getCount = %2,		Review the Java ap-
last.getTime = %3, now.getCount = %4, now.getTime = %5.	The average GC	plication that runs
	execution time has	on the Java VM to
	exceeded the	be monitored.
	threshold in the	
	Java VM to be	
	monitored.	
	%1: Name of the	
	Java VM to be	
	monitored	
	%2: GC generation	
	count at last	
	measurement	
	%3: Total GC	
	execution time at	
	last measurement	
	%4: GC generation	
	count at this	
	measurement	
	%5: Total GC	
	execution time at	
	this measurement	
	%6: Average of the	
	GC execution time	
	used from the last	
	measurement to this	
	measurement	
	1	

Table 4.37 – continued from previous page

Message	Cause of genera-	Action
M1 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	lion	D 1 1 T
%1: GC average time is too long compared with the last connection.	10 1 7 77	Review the Java ap-
av = %6, last.getCount = %2, last.getTime = %3, now.getCount =	After the Java VM	plication that runs
%4, now.getTime = $%5$ .	to be monitored was	on the Java VM to
	reconnected, the	be monitored.
	average of the GC	
	execution time has	
	exceeded the	
	threshold in the	
	Java VM to be	
	monitored.	
	%1: Name of the	
	Java VM to be	
	monitored	
	%2: GC generation	
	count at last	
	measurement	
	%3: Total GC	
	execution time at	
	last measurement	
	%4: GC generation	
	count at this	
	measurement	
	%5: Total GC	
	execution time at	
	this measurement	
	%6: Average of the	
	GC execution time	
	used from the last	
	measurement to this	
	measurement	

Table 4.37 – continued from previous page

Table 4.37 – continued from pre		
Message	Cause of genera- tion	Action
%1: GC count is too frequently. count = %4 last.getCount = %2, now.getCount = %3.	The GC generation count has exceeded the threshold in the Java VM to be monitored.  %1: Name of the Java VM to be monitored %2: GC generation count at last measurement %3: GC generation count at this measurement %4: GC generation count from the last measurement to this measurement	Review the Java application that runs on the Java VM to be monitored.
%1: GC count is too frequently compared with the last connection.  count = %4 last.getCount = %2, now.getCount = %3.	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: Name of the Java VM to be monitored %2: GC generation count at last measurement %3: GC generation count at this measurement %4: GC generation count from the last measurement to this measurement	Review the Java application that runs on the Java VM to be monitored.

Table 4.37 – continued from previous page

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

Table 4.37 – continued from previous page

Message Table 4.37 – continued from pre	Cause of genera-	Action
%1: Failed to measure the memory stat.	tion	
	Memory information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct. Check whether the processing load is high in the Java VM to be monitored.
%1: MemoryPool name is undefined. memory_name = %2.	Memory information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: Name of the Java memory pool to be measured	Check whether the operating environment of the Java VM to be monitored is correct.
%1: MemoryPool capacity is too little. memory_name = %2, used = %3, max = %4, ratio = %5.	The Java memory pool free space has fallen below the threshold in the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: Name of the Java memory pool to be measured %3: Use amount of the Java memory pool %4: Maximum usable amount of the Java memory pool %5: Use rate of the Java memory pool	Review the Java application that runs on the Java VM to be monitored.

Table 4.37 – continued from previous page

Mossago		Action
Message	Cause of genera- tion	
%1: THREAD_MXBEAN_NAME is invalid.	Thread information could not be acquired from the Java VM to be monitored.  %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1: ThreadMXBean is invalid.	Thread information could not be acquired from the Java VM to be monitored.	Check whether the operating environment of the Java VM to be monitored is correct. %1: Name of the Java VM to be monitored
%1: Failed to measure the thread stat.	Thread information could not be acquired from Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1: Detect Deadlock. threads = %2.	Thread deadlock has occurred in the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: ID of the deadlock thread	Review the Java application that runs on the Java VM to be monitored.

Table 4.37 – continued from previous page

Table 4.37 – continued from pro		1 -
Message	Cause of genera- tion	Action
%1: Thread count is too much(%2).	The number of activated threads has exceeded the threshold in the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: Number of activated threads at measurement	Review the Java application that runs on the Java VM to be monitored.
%1: ThreadInfo is null.Thread count = %2.	Thread information could not be acquired in the Java VM to be monitored. %1: Name of the Java VM to be monitored %2: Number of activated threads at measurement	Check whether the operating environment of the version of the Java VM to be monitored is correct.
%1: Failed to disconnect.	Disconnection from the Java VM to be monitored has failed. %1: Name of the Java VM to be monitored	-
%1: Failed to connect to WebLogicServer.	WebLogic Server to be monitored could not be connected. %1: Name of the Java VM to be monitored	Review the Java application that runs on the WebLogic Server to be monitored.

Table 4.37 – continued from previous page

Message	Cause of genera- tion	Action
%1: Failed to connect to Sun JVM.	Java VM and WebOTX to be monitored could not be connected. %1: Name of the Java VM to be monitored	Review the Java application that runs on the Java VM and WebOTX to be monitored.
Failed to open the %1.	The JVM statistics log could not be output. %1: Name of the HA/JVMSaverJVM statistics log file	Check whether the disk has suffi- cient free space or whether the number of open files has exceeded the upper limit.
%1: Can't find monitor file.	No monitoring %1: Name of the Java VM to be monitored	-
%1: Can't find monitor file, monitor stopped[thread:%2].	Monitoring stops. %1: Name of the Java VM to be monitored %2: Type of the measurement thread	-
%1: Failed to create monitor status file.	An internal file could not be created. %1: Name of the Java VM to be monitored	Check whether the disk free space and the maximum number of volume files are sufficient.
%1: Failed to delete monitor status file.	An internal file could not be deleted.	Check whether there is a problem with the hard disk.

Table 4.37 – continued from previous page

Table 4.37 – continued from pre		
Message	Cause of genera- tion	Action
%1: com.bea:Type=ServerRuntime is invalid.	Information could not be acquired from the Java VM to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the Java VM to be monitored is correct.
%1: WorkManagerRuntimeMBean or ThreadPoolRuntimeMBean is invalid.	Information could not be acquired from the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating en- vironment of the WebLogic Server to be monitored is correct.
%1: Failed to measure the WorkManager or ThreadPool stat.	Information could not be acquired from the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored	Check whether the operating environment of the WebLogic Server to be monitored is correct.
%1: ThreadPool stat is invalid. last.pending = %2, now.pending = %3.	The number of waiting requests could not be measured in the thread pool of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Number of waiting requests at last measurement %3: Number of waiting requests at this measurement	Check whether the operating environment of the version of the WebLogic Server to be monitored is correct.

Table 4.37 – continued from previous page

Message	Cause of genera-	Action
Wessage	tion	Action
%1: WorkManagar stat is invalid last panding = %2 naw panding	lion	Chack whather
%1: WorkManager stat is invalid. last.pending = %2, now.pending = %3.	The number of waiting requests could not be measured in the work manager of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Number of waiting requests at last measurement %3: Number of waiting requests at this measurement	Check whether the operating environment of the version of the WebLogic Server to be monitored is correct.
%1: PendingRequest count is too much. count = %2.	The number of waiting requests has exceeded the threshold in the thread pool of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Number of waiting requests at this measurement	Review the Java application that runs on the WebLogic Server to be monitored.

Table 4.37 – continued from previous page

Table 1.67 Continued from pre-		
Message	Cause of genera-	Action
	tion	
%1: PendingRequest increment is too much. increment = %4,		Review the Java ap-
last.pending = $\%2$ , now.pending = $\%3$ .	The increment of	plication that runs
	the number of	on the WebLogic
	waiting requests has	Server to be moni-
	exceeded the	tored.
	threshold in the	
	thread pool of the	
	WebLogic Server to	
	be monitored.	
	%1: Name of the	
	Java VM to be	
	monitored	
	%2: Number of	
	waiting requests at	
	last measurement	
	%3: Number of	
	waiting requests at	
	this measurement	
	%4: Increment of	
	the number of	
	waiting requests	
	from the last	
	measurement to this	
	measurement	

Table 4.37 – continued from previous page

Message	Cause of genera-	Action
moodge	tion	7.00.011
%1: PendingRequest increment is too much compared with the last		Review the Java ap-
%1: PendingRequest increment is too much compared with the last connection. increment = %4, last.pending = %2, now.pending = %3.	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: Name of the Java VM to be monitored %2: Number of waiting requests at last measurement %3: Number of waiting requests at this measurement %4: 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: Throughput count is too much. count = %2.	The number of requests executed per unit time has exceeded the threshold in the thread pool of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Number of requests executed per unit time at this measurement	Review the Java application that runs on the WebLogic Server to be monitored.

Table 4.37 – continued from previous page

Message	Cause of genera-	Action
Moodage	tion	7.00011
0/1. The least in a second in the second in		Davissa tha Isaa sa
	ment = $\%4$ ,	Review the Java ap-
last.throughput = $\%2$ , now.throughput = $\%3$ .	The increment of	plication that runs
	the number of	on the WebLogic
	requests executed	Server to be moni-
	per unit time has	tored.
	exceeded the	
	threshold in the	
	thread pool of the	
	WebLogic Server to	
	be monitored.	
	%1: Name of the	
	Java VM to be	
	monitored	
	%2: Number of	
	requests executed	
	per unit time at last	
	measurement	
	%3: Number of	
	requests executed	
	per unit time at this	
	measurement	
	%4: Increment of	
	the number of	
	requests executed	
	per unit time from	
	the last	
	measurement to this	
	measurement	

Table 4.37 – continued from previous page

%3. Servino mor reco	fter the WebLogic erver to be conitored was	Review the Java application that runs on the WebLogic
num exect time the thre Wet be r %1: Java mor %2: requ per mea %3: requ per mea %4: the	econnected, the accement of the cumber of requests accuted per unit me has exceeded at threshold in the acceptance of the WebLogic Server to be monitored.  11: Name of the acceptance of the ac	Server to be monitored.

Table 4.37 – continued from previous page

Cause of genera-	Action
tion	
=	Review the Java ap-
The number of	plication that runs
waiting requests has	on the WebLogic
exceeded the	Server to be moni-
threshold in the	tored.
work manager of	
the WebLogic	
Server to be	
monitored.	
%1: Name of the	
Java VM to be	
monitored	
%2: Application	
name	
%3: Work manager	
name	
%4: Number of	
waiting requests	
	tion  The number of waiting requests has exceeded the threshold in the work manager of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Application name %3: Work manager name

Table 4.37 – continued from previous page

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

Table 4.37 – continued from previous page

Table 4.37 – continued from previous page		
Message	Cause of genera- tion	Action
%1: PendingRequest increment is too much compared with the last connection. AppName = %2, Name = %3, increment = %6, last.pending = %4, now.pending = %5.	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: Name of the Java VM to be monitored %2: Application name %3: Work manager name %4: Number of waiting requests at last measurement %5: Number of waiting requests at this measurement %6: 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: Can't find WorkManager. appName = %2, name = %3.	The work manager which was set could not be acquired from the WebLogic Server.  %1: Name of the Java VM to be monitored  %2: Application name  %3: Work manager name	Review the setting of Target WebLogic Work Managers.

Table 4.37 – continued from previous page

Table 4.37 – continued from previous page		
Message	Cause of genera-	Action
	UUII	
%1: analyze of average start[%2].	Analyzing of the average value has started. %1: Name of the Java VM to be monitored %2: Thread name	-
%1: analyze of average finish[%2].state = %3.	Analyzing of the average value has been completed. %1: Name of the Java VM to be monitored %2: Thread name %3: Status of the target to be monitored	-
%1: Average of PendingRequest count is too much. count = %2.	The average of the number of waiting requests has exceeded the threshold in the thread pool of the WebLogic Server to be monitored. %1: Name of the Java VM to be monitored %2: Number of waiting requests at this measurement	Review the Java application that runs on the WebLogic Server to be monitored.

Table 4.37 – continued from previous page

Table 4.37 – continued from previous page		
Message	Cause of genera-	Action
	tion	
%1: Average of Throughput count is too high. count = %2.		Review the Java ap-
	The average of the	plication that runs
	number of requests	on the WebLogic
	executed per unit	Server to be moni-
	time has exceeded	tored.
	the threshold in the	
	thread pool of the	
	WebLogic Server to	
	be monitored.	
	%1: Name of the	
	Java VM to be	
	monitored	
	%2: Number of	
	requests executed	
	per unit time at this	
	measurement	
%1: Average of PendingRequest count is too high. AppName = %2,		Review the Java ap-
Name = $\%3$ , count = $\%4$ .	The average of the	plication that runs
	number of waiting	on the WebLogic
	requests has	Server to be moni-
	exceeded the	tored.
	threshold in the	
	work manager of	
	the WebLogic	
	Server to be	
	monitored.	
	%1: Name of the	
	Java VM to be	
	monitored	
	%2: Application	
	name	
	%3: Work manager	
	name	
	%4: Number of	
	waiting requests at	
	this measurement	
Error: Failed to operate clpjra_bigip.[%1]	%1: Error code	Review the setting.
		1

# 4.7.2 JVM load balancer linkage log

Message	Cause of generation	Action
lbadmin command start.	Execution of the load balancer link-	-
	age command has started.	
lbadmin command finish.	Execution of the load balancer link-	-
T. H. H. Cl., 1	age command has been completed.	
Into HealthCheck mode.	The health check function is en-	-
Into Weight mode.	abled.  The load calculation function of the	_
into weight mode.	Java VM to be monitored is valid.	-
The PID of lbadmin.jar is "%1".	sava vivi to be monitored is vand.	-
The Tib of feathering at 15 70 TV	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	Check the HTML file name and
	failed.	HTML rename destination file
%1 doesn't exist.		name.  Check the HTML file name.
701 doesii t exist.	The rename source HTML file does	Check the HTML me name.
	not exist.	
	%1: HTML file name	
	/	
%1 already exists.		Check the HTML rename destina-
	The rename destination HTML file	tion file name.
	already exists.	
	%1: HTML rename destination file	
	name	
		GI 1 1 HTD G
Can't rename file:%1.	December 201 - 1970 At Cl. 1	Check the HTML rename destina-
	Renaming of the HTML file has failed.	tion file name.
	%1: HTML file name	
The number of retries exceeded the	The retry count for renaming the	Check the HTML rename destina-
limit.	HTML file has exceeded the upper	tion file name.
	limit.	non me manie.
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	

# **EXPRESSCLUSTER X SingleServerSafe 4.3 for Windows Operation Guide, Release 1**

Table 4.38 – continued from previous page

Message	Cause of generation	Action
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.
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: 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 monitoring has not yet started. %1: Internal file name	Start the JVM monitor resource.

# 4.8 STOP codes list of user space monitor resources

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

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

**CHAPTER** 

**FIVE** 

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### **CHAPTER**

# SIX

# **REVISION HISTORY**

Edition	Revised Date	Description
1st	Apr 09, 2021	New manual

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