Element Controller
Configuration Specifications

Version 0.9

Oct, 2017

Ver. No.	Revision Date	Change Description
0.9	October, 2017	Initial Version Registered

Configuration Definitions

Configurations are classified and defined by their usage. Also, they are distributed into separate files according to the usage.

The table below is a list of them.

Name	Description
ec_main.conf	The file which describes the configurations to be imported during the start up of EC Main Module.

Rules of Description for Configurations

There are some rules to describe definitions in configuration files with KEY_VALUE method as follows.

No.	Rule of Description
1	Character Code: UTF-8
2	Line Feed Code: LF
3	Delimiter between Key and Value: =
4	A line feed must be inserted just after each pair of key and value.
5	If a line is started with "#", it is a comment line (and will not be imported).
6	Half-width space and TAB characters are prohibited to be used (even in front or behind of "=" sign) except in comments.
7	Full-width characters (incl. all Japanese characters) are prohibited to be used except in comments.
8	Characters "=" and "#" are prohibited to be used in keys and values.

Description Example (case of "ec_main.conf")

```
#REST Waiting I/F Address
rest_server_address=0.0.0.0
#REST Waiting Port
Port_number=8080
```

1. ec_main.conf

The table below shows the detail of items which are managed in the EC Main Module configuration file.

No.	Item Name	Key	Description	Required?	Default Value	Type	Unit	Functional Block	Remarks
1	REST Waiting Interface Address	rest_server_address	REST waiting interface address	No	0.0.0.0	TEXT	-	Operation Request Reception Functional Part	-
2	REST Waiting Port	rest_server_port	REST waiting port equal or greater than 0, equal or smaller than 65535	No	18080	INT	-	Operation Request Reception Functional Part	-
3	No. of Retry When REST Request Failed	rest_retry_num	the number of retry when REST request was filed equal or greater than 0	No	0	INT	times	Operation Execution Functional Part	If 0, retry will not performed. This is used to request EC Main Module to FC as a client.
4	REST Request Timeout Time	rest_timeout	REST request timeout time equal or greater than 1	Yes	-	INT	sec	Operation Execution Functional Part	This is used to request EC to FC as a client. Connection timeout values are dependent on the OS configuration.
5	FC Connection Address (for REST)	fc_address	FC connection address (for REST)	Yes	-	TEXT	-	Operation Execution Functional Part	-
6	FC Connection Port Number (for REST)	fc_port	FC connection port number (for REST) equal or greater than 0, equal or smaller than 65535	Yes	-	INT	-	Operation Execution Functional Part	-
7	Log Configuration File Path	log_config_file	log configuration file path	Yes	-	TEXT	-		Set in the configuration file of log4j.
8	DB Connection Point URL	database_connection	DB connection point URL	Yes	-	TEXT	-	DB Control Functional Part	Set in the configuration file of Hibernate.
9	Service Running Status	service_status	service running status Specify either "in ready for start (startready)" or "in the process of changing over (changeover)".	No	startready	TEXT	-	Operation Management Functional Part	Fixed Value (Set the default value.)
10	Maintenance Blockage Status	blockade_status	maintenance blockage status Specify either "blocked (busy)" or "opened (inservice)".	No	inservice	TEXT	-	EC Main Module Inter-EM I/F Control Functional Part	Fixed Value (Set the default value.)
11	EM Connection Address (for NETCONF over ssh)	em_address	EM connection address (for NETCONF over ssh)	Yes	-	TEXT	-	EC Main Module Inter-EM I/F Control Functional Part	-
12	EM Connection Port Number (for NETCONF over ssh)	em_port	EM connection port number (for NETCONF over ssh) equal or greater than 0, equal or smaller than 65535	Yes	-	INT	-	EC Main Module Inter-EM I/F Control Functional Part	-
13	EM Connection User Name (for NETCONF over ssh)	em_user	EM connection user name (for NETCONF over ssh)	Yes	-	TEXT	-	EC Main Module Inter-EM I/F Control Functional Part	-
14	EM Connection Password (for NETCONF over ssh)	em_password	EM connection password (for NETCONF over ssh)	Yes	-	TEXT	-	EC Main Module Inter-EM I/F Control Functional Part	-
15	EM Connection Timeout Value (for NETCONF over ssh)	em_timeout	EM connection timeout value (for NETCONF over ssh) equal or greater than 1	Yes	-	INT	sec	EC Main Module Inter-EM I/F Control Functional Part	-
16	EC Main Module's Own Cluster ID	cluster_id	EC main module's own cluster ID equal or greater than 0	Yes	-	INT	-	Operation Execution Functional Part	-
17	SNMP Request Timeout Time in Configuration Management Function	device_snmp_timeout	SNMP request timeout time in the configuration management functional part equal or greater than 1	Yes	-	INT	sec	EC Main Module Inter-Device I/F Control Functional Part	-
18	No. of Retry for OSPF Neighbor Establishment Confirmation	ospf_neighbor_retry_num	the number of retry for OSPF neighbor establishment confirmation equal or greater than 0	Yes	-	INT	times	EC Main Module Inter-Device I/F Control	-
19	Retry Interval for OSPF Neighbor Establishment Confirmation	ospf_neighbor_retry_interval	retry interval for OSPF neighbor establishment confirmation equal or greater than 0	Yes	-	INT	msec	EC Main Module Inter-Device I/F Control	-
20	I/F Status Adjustment Process Execution Cycle	failure_mib_interval	I/F status adjustment process execution cycle equal or greater than 1	Yes	-	INT	sec	EC Main Module Inter-Device I/F Control	-
21	SNMP Request Timeout Time in Failure Management Function	failure_snmp_timeout	SNMP request timeout time in the failure management function equal or greater than 1	Yes	-	INT	sec	EC Main Module Inter-Device I/F Control	-
22	Execution Cycle of MIB Collection from the Managed Device in Traffic Management Function	traffic_mib_interval	execution cycle of MIB collection from the managed device in traffic management function equal or greater than 0	No	1	INT	min	EC Main Module Inter-Device I/F Control	If 0, do not operate the traffic management function. Make it the same value as the "traffic_tm_interval" of FC.
23	Timeout Time for MIB Collection	traffic_snmp_timeout	timeout time for MIB collection equal or greater than 1 (exceptionally 0 when traffic_mib_interval is	No	(traffic_mib_interval x 60)/2	INT	sec	EC Main Module Inter-Device I/F Control	-
24	Timeout Value for Waiting EM Queue	em_queue_timeout	timeout value for waiting EM queue equal or greater than 1	Yes	-	INT	sec	EC Main Module Inter-EM I/F Control Functional Part	-
25	DHCP Configuration File	device_dhcp_config	DHCP configuration file (/etc/dhcp/dhcpd.conf)	Yes	-	TEXT	-	EC Main Module Inter-Device I/F Control	-
26	Periodic Termination Process Timeout Time	gather_mib_stop_timeout	timeout value for waiting for the completion of the running I/F status adjustment process in the periodic termination process of the device information collection functional part equal or greater than 1	Yes	-	INT	sec	EC Main Module Inter-Device I/F Control Functional Part	-

27	Periodic Termination Process Status Confirmation Cycle	gather_mib_stop_interval	confirmation cycle for the status of I/F status adjustment process in the periodic termination process of the device information collection functional part equal or greater than 1	Yes	-	INT	msec	EC Main Module Inter-Device I/F Control Functional Part	-
28	RSYSLOG Configuration File Name	device_rsyslog_config	RSYSLOG configuration file (/etc/rsyslog.conf)	Yes	-	TEXT	-	EC Main Module Inter-Device I/F Control	-
29	Timeout Value for Waiting Operation Queue	operation_queue_timeout	timeout value for waiting operation queue equal or greater than 1	Yes	-	INT	sec	Operation Management Functional Part	-
30	EC Management I/F Address	device_ec_management_if	management I/F address of EC (for DHCP configuration)	Yes	-	TEXT	-	EC Main Module Inter-Device I/F Control	-
31	Max. No. of REST Process Thread	rest_thread_max	the upper limit of the number of REST process threads (the number of running threads for the process received from FC) equal or greater than 1	Yes	-	INT		Operation Request Reception Functional Part	In case changing the value, it is needed to be matched with the same number of DB connection pools.
32	Script Installation Path	script_path	the path where the script called for by rsyslogd (boot.sh) is located	Yes	-	TEXT	-	EC Main Module Inter-Device I/F Control	-
33	Request Log Output Path	request_log_path	destination path of log for responding FC in jetty	Yes	-	TEXT	-	Operation Request Reception Functional Part	-
34	Request Log Retention Period (Days)	request_keep_period	retention period of the destination path of log for responding FC in jetty	Yes	-	INT	days	Operation Request Reception Functional Part	-
35	No. of Retry for REST Waiting I/F bind Failure	rest_server_bind_ng_retry_num	the number of retry for REST waiting interface bind failure equal or greater than 0	Yes	-	INT	times	Operation Request Reception Functional Part	-
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