

[illegible]

The response code list returned to MSF host system is shown below.
For the sake of simplicity, 400, 404, 409 for the response code originating from the client, and 500 for the response code attributed to the server.
It may be possible that the library you are using returns code other than the above, but it is not stipulated here.

Class	Response code	Request operation type				Overview	Other codes to include in the response code
		POST	GET	PUT	DELETE		
Normal response	200 OK	○	○	○	—	Successful resource acquisition, or resource update or processing request by POST succeed	—
	201 Created	○	—	—	—	When resource creation succeeds	—
	202 Accepted	○	—	○	○	When acceptance of processing is successful by asynchronous processing	—
	204 No Contents	—	—	—	○	When the resource deletion is successful	—
Abnormal response	400 Bad Request	○	○	○	○	When the data format is incorrect	401 Unauthorized 402 Payment Required 403 Forbidden 405 Method Not Allowed 406 Not Acceptable 408 Request Timeout 412 Precondition Failed 413 Request Entity Too Large 414 Request-URI Too Large 415 Unsupported Media Type
	404 Not Found	○	○	○	○	When it is desired to hide that the operation target resource does not exist or exists	—
	409 Conflict	○	—	○	○	If there is already a resource you want to create or the operation target resource is locked	—
	500 Internal Server Error	○	○	○	○	Processing can not be continued due to server origin.	501 Not Implemented 503 Service Unavailable

Interface name	operation result
Method	PUT

URI parameter	type	overview	remarks
operation_id	string	operation id	-

URI /v1/operations/{operation_id}

message	code	body	type	required	Allow null	Allow empty	overview	remarks
request	-	operation_id	string	○	x		Operation ID	-
		occurred_time	string	○	x		Occurrence time	The format is "YYYYMMDD hhmmss"
		last_update_time	string	○	x		Last update time	When the status is in the completion state, the completion time is stored. The format is "YYYYMMDD hhmmss"
		status	string	○	x		State	"unexecuted" "executing" "completed" "failed" "canceled"
		sub_status	string	-	x		Substate	As required, each function stores the detailed state of "running".
		request	object	○	x		Request information	-
		uri	string	○	x		Request URI	-
		method	string	○	x		Request method	"POST" "PUT" "DELETE" ※ Only operations that can be asynchronous can be specified
		body	string	○	x		Body part upon request	Character string information of the body information at the time of request * For double quotation marked from the original, it is supposed to be replaced by "¥" and stored.
		response	object	-	x		Response information	Required when status is "completed" or "failed"
		status_code	int	○	x		Process result information	"Set the value with the same policy as REST response code Example: 200 = OK"
		body	string	○	x		Body part of response	Character string information of the body part of the response created for each process Basically, it assumes the json format, but for double quotation, it is assumed to be replaced by "¥" and stored. * In the IF case where information is not placed on the body part, it becomes an empty string. The created object_id to be included in the response of the POST request. The message corresponding to the process failure is also stored here.
		target_clusters	object[]	x	○	○	Cluster unit request/response in multi cluster	Optional for FC
		cluster_id	string	○	x		Cluster ID of the request destination	-
		request	object	○	x		Request information	-
		uri	string	○	x		Request URI	-
		method	string	○	x		Request method	"POST" "PUT" "DELETE" "PATCH" ※ Only operations that can be asynchronous can be specified
		body	string	○	x		Request body part	Character string information of response body part created for each processing. ※ Basically it assumes the json format, but for double quotes, it is assumed to be replaced by "¥" and stored. ※ In the IF case where information is not placed on the body part, it becomes an empty string.
		response	object	x	○		Response information	-
		status_code	int	x	○		Response code	-
		body	string	x	○		Response body data at rollback	String information of response Body data created every rollback to the cluster
		rollbacks	object	x	○		Rollback information	Optional for FC
		result	string	○	x		Rollback process result	success: "completed", failure: "failed" none: "none"
		occurred_time	string	○	x		Rollback start time	-
		target_clusters	object[]	x	○	○	Request/Response information of rollback for clusters	None in case there is no target for rollback
		cluster_id	string	○	x		Cluster ID	-
		request	object	○	x		Request information	-
		uri	string	○	x		Request URI	-
		method	string	○	x		Request method	"POST" "PUT" "DELETE" "PATCH" ※ Only operations that can be asynchronous can be specified
		body	string	x	○		Request body part	Character string information of response body part created for each processing. ※ Basically it assumes the json format, but for double quotes, it is assumed to be replaced by "¥" and stored. ※ In the IF case where information is not placed on the body part, it becomes an empty string.
		response	object	x	○		Response information	-
		status_code	int	x	○		Response code	-
		body	string	x	○		Response body data at rollback	String information of response Body data created every rollback to the cluster
response	200	-	-	-	-	-	-	-
Refer to the "Error response format" sheet for error response								

Body uses JSON format.

Interface name	status notification
Method	PUT

URI	/v1/MSFcontroller/status
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message	code	body	type	required	Allow null	Allow empty array	loverview	remarks
request	-	controller	object	○	x		-	-
		controller_type	string	○	x		Controller type	"mfc":MFC "fc":FC "ec":EC "em":EM
		cluster_id	string	x	○		Cluster ID managed by the controller	Optional for MFC
		event	string	○	x		Occurrence event	"start system switching" "end system switching" "start blockade" "end blockade"
response	200	-	-	-	-	-	-	-
Refer to the "Error response format" sheet for error response								

Body uses JSON format.

Interface name	traffic notification
Method	PUT

URI	/v1/MSFcontroller/traffic
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message	code	body	type	required	Allow null	Allow empty array	overview	remarks
request	-	physical unit	object	x	○		Traffic notification information(per physical unit)	-
		ifs	object[]	○	x	○	IF information list	-
		cluster_id	string	○	x		Cluster ID	-
		fabric_type	string	○	x		Node type(Leaf or Spine)	-
		node_id	string	○	x		Node ID	-
		if_type	string	○	x		IF type(see remark)	"physical-if": physical-IF "lag-if": LAG IF "breakout-if": breakoutIF
		if_id	string	○	x		IF ID	-
		cluster_unit	object	x	○		Traffic notification information(per cluster unit)	-
		clusters	object[]	○	x	○	Cluster information	-
		cluster_id	string	○	x		Cluster ID	-
		type	string	○	x		type(see remark)	"edge_point": edge-point "cluster_link-if": inter-cluster IF
		if_id	string	x	○		ID(see remark)	Specified "type"'s ID (i.e. if type is edge-point, edge-point id is obtained.)
		slice_unit	object	x	○		Failure notification information(per slice unit)	-
		slices	object[]	○	x	○	Slice information	-
		slice_type	string	○	x		Slice type	"l2vpn": L2Slice "l3vpn": L3Slice
		slice_id	string	○	x		Slice ID	-
		cp_ids	string[]	○	x	○	CP ID list	-
response	200	-	-	-	-	-	-	-
Refer to the "Error response format" sheet for error response								

Body uses JSON format.

Interface name	failure notification
Method	PUT

URI /v1/MSFcontroller/failure_status

message	code	body	type	required	Allow null	Allow empty array	overview	remarks
request	-	physical unit	object	x	○	○	Failure notification information(per physical unit)	-
		nodes	object[]	x	○	○	Node information list	Node failure notification
		cluster_id	string	○	x	-	Cluster ID	-
		fabric_type	string	○	x	-	Node type(Leaf or Spine)	-
		node_id	string	○	x	-	Node ID	-
		failure_status	string	○	x	-	Failure status	"up" "down"
		ifs	object[]	x	○	○	IF information list	IF failure notification
		cluster_id	string	○	x	-	Cluster ID	-
		fabric_type	string	○	x	-	Node type(Leaf or Spine)	-
		node_id	string	○	x	-	Node ID	-
		if_type	string	○	x	-	IF type(see remark)	"physical-if": physical-IF "lag-if": LAG IF "breakout-if": breakoutIF
		if_id	string	○	x	-	IF ID	-
		failure_status	string	○	x	-	Failure status	"up" "down"
		cluster unit	object	x	○	-	Failure notification information(per cluster unit)	-
		clusters	object[]	○	x	○	Cluster information	-
		cluster_id	string	○	x	-	Cluster ID	-
		type	string	○	x	-	type(see remark)	"edge_point": edge-point "cluster_link-if": inter-cluster IF "internal": internal cluster
		id	string	x	○	-	ID(see remark)	Specified "type"s ID (i.e. if type is edge-point, edge-point id is obtained.)
		failure_status	string	○	x	-	Failure status	"up" "down" "warn"
		slice unit	object	x	○	-	Failure notification information(per slice unit)	-
		slices	object[]	○	x	○	Slice information	-
		slice_type	string	○	x	-	Slice type	"l2vpn": L2Slice "l3vpn": L3Slice
		slice_id	string	○	x	-	Slice ID	-
		cp_ids	string[]	○	x	○	CP ID list	-
		failure_status	string	○	x	-	Failure status	"up" "down"
		reachable_statuses	object[]	x	○	○	Reachability status list	Reachability status list between CP <-> > CP and CP <-> inter-cluster link IF.
		cp_id	string	○	x	-	CP ID	One CP ID
		opposite_type	string	○	x	-	Opposite type	"cp": CP "cluster_link-if": Inter-cluster Link
		opposite_id	string	○	x	-	The Opposite ID	ID of the type specified by "opposite_type"
		reachable_status	string	○	x	-	Reachability status	"reachable": Reachable "unreachable": Unreachable
		cluster link	object	x	○	-	Inter-cluster link failure information	【FCのみ設定可能なパラメータ】
		reachable_statuses	object[]	○	x	○	Reachability status list	Reachability status list between inter- cluster link IF <-> inter-cluster link IF.
		cluster_link_if_id	string	○	x	-	Inter-cluster link ID	-
		opposite_cluster_link_if_id	string	○	x	-	Opposite inter-cluster link ID	-
		reachable_status	string	○	x	-	Reachability status	"reachable": Reachable "unreachable": Unreachable
response	200	-	-	-	-	-	-	-

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Body uses JSON format.