

MasterScope SystemManager G

WebAPI Reference

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Preface

Notation Rules of This Document

This document describes the precautions and related information as follows:

Note

A functional, operational, or configurational notice, warning, or complement is described.

Tip

Indicates the location of additional information or reference destination information

Notation list

The following notation rules are applied in this document.

Notation	How to use	Example
[] square brackets	Placed before and after an item (such as a text box, check box, or tab) on the screen	Enter the machine name in the [Machine Name] text box. The [All] check box
"" double quotes	Placed before and after a screen name (such as a dialog box window), or the name of a manual other than this one.	"Setting" window "Installation Guide"
[] square brackets in the command line	Indicates that the specification of the value in [] can be omitted.	add [/a] Gr1
Monospace font	Output from the command-line system (such as a message prompt)	Execute the following command: replace Gr1
Italicized monospace font	An item that should be replaced by users with a valid value If the value contains a space, surround it with " " (double quotes).	add <i>GroupName</i> InstallPath= " <i>Install Path</i> "
Json example	Json examples are shown with breaks and indents added in order to improve the readability.	{ "ID": ["45ed3512"], "Manager": { "ErrorMessage": "", "Name": "localhost", "Status": 200, "StatusCode": 200 } }

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Chapter 1.

Functional outline

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Implement the following functions to Web API.

- Monitoring ON/OFF
Starting/stopping monitoring categories set in the business view
Stopping/restarting monitoring for each topology agent
Moving/Deleting the agents
- Changing the report destination mail address
Adding, changing, and deleting the report destination mail address of each category and filter set in the business view
- Setting the process monitoring function
Adding, updating, and deleting the process monitoring definition
- Setting the Windows service monitoring function
Adding, updating, and deleting the Windows service monitoring definition
- Setting the performance monitoring function
Adding, updating, and deleting the performance monitoring definition
- Setting the application log monitoring function
Adding, updating, and deleting the application log monitoring definition
Adding, updating, and deleting the filter definition
- Setting the event log monitoring function
Adding, updating, and deleting the filter definition
- Setting the system log monitoring function
Adding, updating, and deleting the filter definition

This document assumes that providers and tenant administrators use the above functions.

Providers and tenant administrators are defined below.

- Provider
A provider is the operation manager who manages the entire operation by using MasterScope MCOperations.
A provider performs operations, such as setting filters, etc., on MCOperations in response to applications from the tenant administrators.
- Tenant administrator
A tenant administrator is a person or organization utilizing the service. A tenant administrator also means the administrator, user, and operator of the provided computer.

1.1 WebAPI function outline

The functions to set monitored resources (agents, filters, etc.) and monitoring definitions are implemented using Web APIs.

For details, see the process overview of each individual API.

This document assumes that providers and tenant administrators use the above functions.

Providers and tenant administrators are defined below.

- Provider
Operation administrator who performs the operation management tasks in general by using MasterScope SystemManager G.
A provider performs the filter setting on SystemManager G and other tasks based on requests from a tenant administrator.
- Tenant administrator
A person or organization utilizing the service. The administrators, users, and operators of the provided computer are included.

1.2 System configuration to use WebAPI

This section describes the system configuration to use WebAPI.

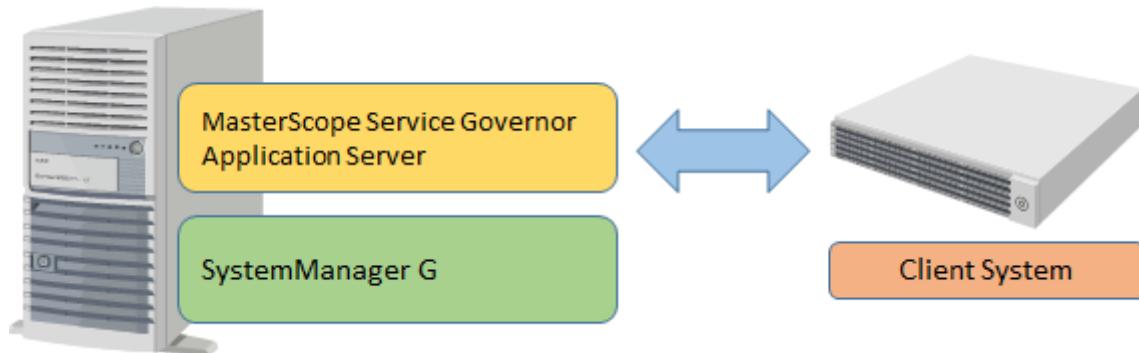
To use WebAPI, the following ServiceGovernor components must be installed in the server in which the manager function has been installed.

- MasterScope Service Governor
- Application Server (Tomcat)

For how to install ServiceGovernor, see "MasterScope ServiceGovernor Installation Guide."

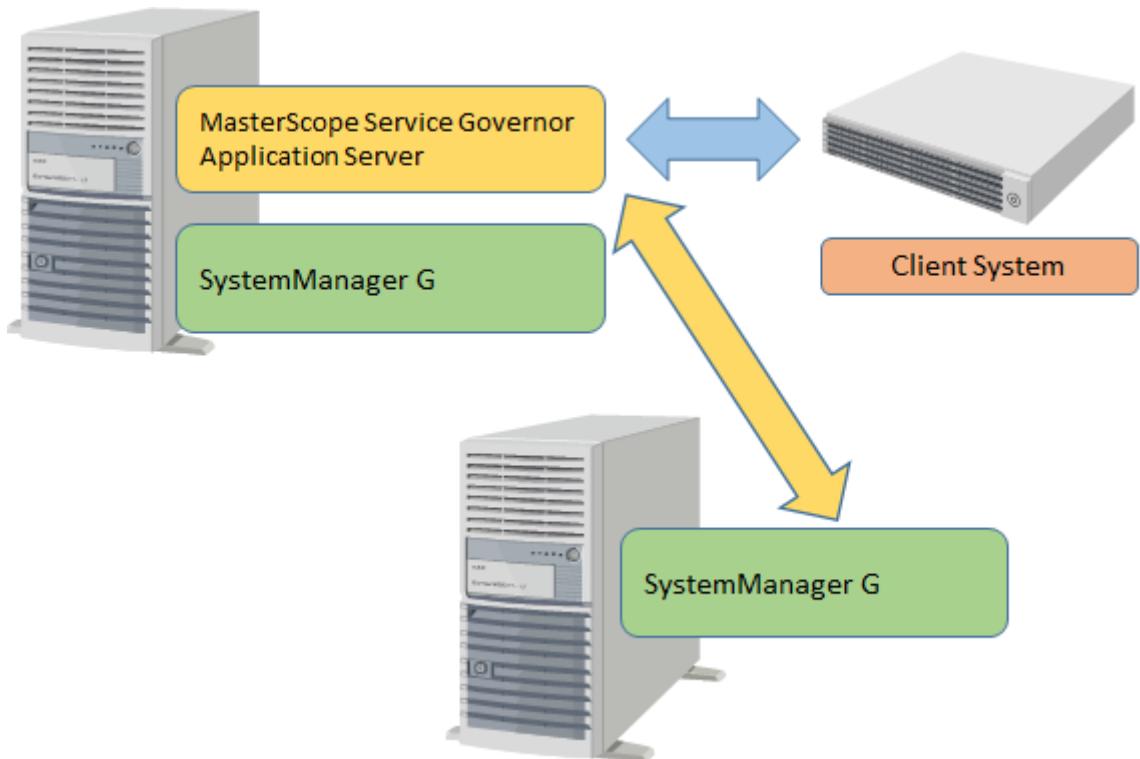
- When installing ServiceGovernor and the manager function in the same server:

The client system using WebAPI operates SystemManager G by accessing ServiceGovernor.



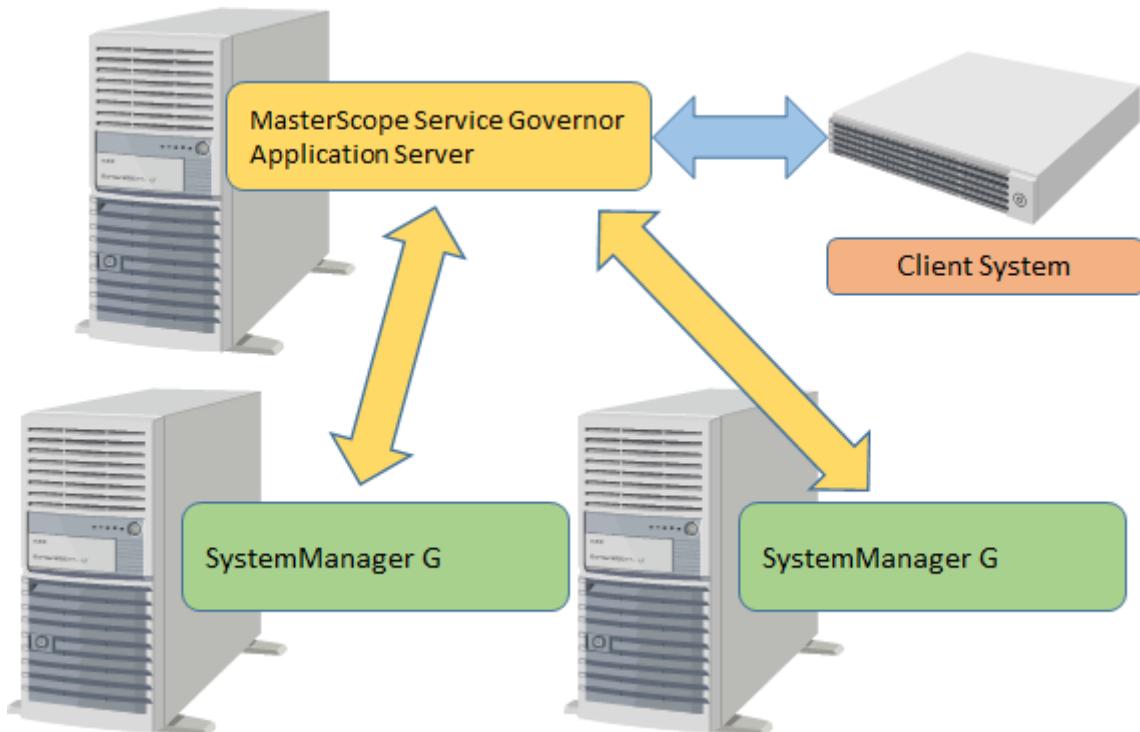
- For the environment in which multiple manager functions are deployed:

For the environment in which multiple SystemManager G instances are deployed, install ServiceGovernor in one of the servers in which the manager function is installed.



- For the environment in which ServiceGovernor is installed an independent server:

A system in which ServiceGovernor is installed an independent server can be configured.



The client system using WebAPI can operate all SystemManager G instances by accessing ServiceGovernor.

1.3 Preparation for Using Web API

Before you use Web API, you need to configure environmental setting.

For details about environmental preparation, refer to *MasterScope Service Governor Installation Guide*.

Chapter 2.

Prerequisites

- The WebAPI function is supported only by Windows and Linux managers. This function cannot be used by a manager other than a Windows or Linux manager.
- With WebAPI, you cannot set the access authority for resources such as agents and filters. You cannot set display restrictions according to the authority set from SystemManager G consoles, either.

Chapter 3.

Common Specifications of API

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Note

This chapter describes the command lines for the Windows manager. If another OS is used, replace it accordingly.

3.1 HTTP method

The following HTTP methods are used according to the purpose.

HTTP method	Usage
GET	Obtains the existing resource information.
POST	Creates a new resource.
PUT	Edits the existing resource.
DELETE	Deletes the existing resource.

3.2 JSON

API supports the JSON format.

3.2.1 JSON specifications

The JSON specifications conform to RFC4627.

For items without values, the null value is stored without omitting the key.

3.2.2 Character encoding

UTF-8 is used for encoding of all character strings.

3.3 Request format

3.3.1 HTTP header

Use the HTTP header shown below.

HTTP header	Setting value
X-FW-API-Version	API version. Set "1.1". * This character string is subject to change. Specify this when executing the following API common to the framework. "Chapter 4. External interface (common) (page 14)"
X-SYSMGR-API-Version	API version. Set "1.0". * This character string is subject to change. Specify this when executing the following SystemManager API. "4.13 Service port monitoring (page 379)"
X-APPNAVI-API-Version	API version. Set "1.0.0". * This character string is subject to change. Specify this when executing the following application management API.

HTTP header	Setting value
	"4.15 Application Management (page 443)"

Example 1:

```
X-FW-API-Version: 1.1
```

Example 2:

```
X-SYSGR-API-Version: 1.0
```

Example 3:

```
X-APPNAVI-API-Version: 1.0
```

3.3.2 URL

1. The URL and query character strings are case-sensitive.

3.3.3 HTTP message body

1. The HTTP message body is case-sensitive.

3.4 API Authentication Key

Create the authentication key for ServiceGovernor

1. Log into the manager under the Administrators privileges.
2. Open the Tools folder within the installation destination folder of the manager component.
3. Perform the following WebApiTool.bat command to create the access key.

```
> cd "< Installation directory>\Tools"
>WebApiTool.bat createkey <UserName> -description "<Description>"
```

* Specify any value for <UserName> and <Description>.

Caution

- An ASCII character or numeric value can be specified for <UserName>.
- The character string specified for <UserName> will be displayed as the user name of the [Audit Log] view on the manager's monitoring terminal.

Confirm that the following is displayed as a standard output.

```
NORMAL END.

command exit code:0
COMMAND SUCCEEDED.
```

4. Confirm the created access key.

Perform the following command to display the created access key.

```
> cd "< Installation directory>\Tools"
>WebApiTool.bat showkey <UserName>
```

Confirm that the following is displayed in a standard output.

```
-----
UserName : <UserName>
Description : <Description>
AccessKeyId : /TZfHsSFsdfsL3ghfE9hKyRYLW2ufSbcnYWf1m4RBVrw=
SecretAccessKey : rSQ2z2Yn/OgSHhL3R7j6IWuiErtMl1CBMJQWtWpE5rXuU=
-----
NORMAL END.

command exit code:0
COMMAND SUCCEEDED.
```

- Specify the displayed AccessKeyId and SecretAccessKey as the portal products.

Write down the values of the authentication access key (AccessKeyId) and authentication secret key (SecretAccessKey) and specify them to the portal products.

To use WebAPI of ServiceGovernor , it is necessary to include the assigned access key in the Http request header required to use WebAPI.

- When the portal products use WebAPI, create the Http request header as follows.

Use the following Http request header for authentication.

HTTP header	Description
Date	Specifies in the WebAPI request date (RFC1123 format).
Authorization	Specifies the created access key and signature described later. Specify "SharedKeyLite" as the authentication method.

Use the following algorithm to create the Authorization header.

- Read the access key generated with the WebApiTool.bat command on the manager.

```
AccessKeyId : /TZfHsSFsdfsL3ghfE9hKyRYLW2ufSbcnYWf1m4RBVrw=
SecretAccessKey : rSQ2z2Yn/OgSHhL3R7j6IWuiErtMl1CBMJQWtWpE5rXuU=
```

- Determine the request date.

```
Date = "Wed, 19 Dec 2012 08:01:10 GMT"
```

- Acquire the WebAPI path with the query character string ("?" or after) excluded.

```
CanonicalizedResource = "/umf/categories"
```

Caution

If you need URLencode, generate the target character string using the WebAPI path that results after encoding.

- Concatenate the request date and path by using a line feed character (CRLF) and create the character strings to be authenticated.

```
CRLF = "\x0D\x0A"
StringToSign = Date + CRLF + CanonicalizedResource
```

- Create the HMAC (SHA256) from the character strings to be authenticated and SecretAccessKey and encode it in Base64.

```
Signature = Base64(HmacSHA256(SecretAccessKey, StringToSign))
#=> "dSvqioC9hIUjnnDk7dhHcQ6oRCxJNlhc0Wdev393ZYc="
```

- Create the HTTP request header.

Example of Http request header:

```
Date: Wed, 19 Dec 2012 08:01:10 GMT
Authorization: SharedKeyLite /TZfHssSFsdfsL3ghfE9hKyRYLW2ufSbcnYWf1
m4RBVrw=:dSvqioC9hIUjnnDk7dhHcQ6oRCxJNlhc0Wdev393ZYc=
```

Caution

This procedure is required to perform setup on the portal product that uses WebAPI of ServiceGovernor . If no signature is specified or the specified signature has a wrong value, WebAPI will fail to be executed.

7. To operate ServiceGovernor in a cluster configuration, copy the following files from the active server to the standby server.

```
<Installation directory>\Tomcat\vDCApiKey.jks
```

3.5 Response format

3.5.1 Common HTTP status code

Success or failure in API is reported by the HTTP status code. HTTP status codes common to all APIs are shown below.

Code	Meaning	Description
4xx system	Client Error	There was an error in the request from the client. There was no problem on the server side, the client correctly modified the request, and the request was issued again.
400	Bad Request	The syntax was not correct or the parameter exceeded the allowable range.
404	Not Found	This is returned if the specified resource is not found.
405	Method Not Allowed	This is returned if the requested resource uses the HTTP method that is not supported.
5xx system	Server Error	This is returned if an error occurs inside the server. Whether the request is issued again depends on the HTTP status code.
500	Internal Server Error	This is returned if an unexpected error occurs when executing API.

Code	Meaning	Description
		The request cannot be issued again until the problem is resolved.
503	Service Unavailable	The service is temporarily overloaded and unavailable. If the load becomes smaller as time advances, reissue of the request is allowed.

Caution

Additionally, each API defines the HTTP status code. For errors unique to API, refer to the specifications of each API.

3.5.2 Error format

Information on the error is returned with JSON format.

```
HTTP/1.1 500 Internal Server Error
Content-Type: application/json; charset=utf-8
{
    "Error": "<Error messages> ",
    "Exception": "<Exception class name> ",
}
```

Exception class name	Description
ConnectException	Internal communication error
JsonParseException	Json encode/decode error
NotFoundException	Error occurring if the specified resource is not found
TimedOutException	Internal communication error (timeout)
UnsupportedRequestException	Error occurring if an HTTP method or URI that is not supported is requested
UnsupportedAPIVersionException	Error occurring if an API version that is not supported is specified
DuplicateException	Error occurring if more than one specified resource exists and it cannot be identified uniquely
MissingParameterException	Error occurring if the required parameter is insufficient
MissingManagerException	Error occurring if the specified manager is not found
OverloadException	Temporary communication error due to overloading
PluginException	Error in reading the internal plug-in file
InternalException	Fatal error other than errors described above

3.6 End point

The following URL is used as the end point of API.

```
https://<Host name>:<Port number>/umf/
```

3.7 Parameter description

3.7.1 How to View Parameters using methods other than API

Parameter	Reference method
Category ID and category group ID	Select the relevant category or category group from the business view of MasterScope Integrated Console, and display the category ID or group ID from the property view.
Category name and category group name	Display the category name and category group name of the relevant category from the business view of MasterScope Integrated Console.
Filter ID	Appears only in the API execution result.
Filter name	Right-click the relevant category in the business view of MasterScope Integrated Console, and select [Filter Setting]. Display the filter name on the "Filter Setting" screen.
Agent name	Display the corresponding agent name in the topology view of MasterScope Integrated Console.
Mail policy ID	Appears only in the API execution result.
Mail policy name	Right-click the relevant category in the business view of MasterScope Integrated Console, and select [Filter Setting]. Select the filter name on the "Filter Setting" screen, and press the [Update] button.
To: Mail receiver address	Select the [Recovery Setting] tab on the "Filter Detail Setting" screen, and press the [Configuration] button in [Report].
Cc: Mail receiver address	Select the [Recovery Setting] tab on the "Filter Detail Setting" screen, and press the [Configuration] button in [Report].
Bcc: Mail receiver address	Select the [E-Mail Setting] tab on the "Report Setting" screen, and press the [Update] button.
Subject	Select the [E-Mail Setting] tab on the "Report Setting" screen, and press the [Update] button.
Mail text	Display the mail policy name, receiver address, subject, and mail server name on the [E-Mail Policy Setting] screen.
Mail server ID	Press the [Edit] button to view the mail text.
Mail server name	The mail server ID appears only in the API execution result.

Chapter 4.

External interface (common)

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4.1 Business

4.1.1 Getting the business tree configuration

1. Process overview

Get the tree information of a category group and categories.

2. HTTP method

GET

3. URL

/umf/fw/business/category/**NodeID**?ManagerName=**ManagerName**

In **NodeID**, specify the management ID of the category group whose information you want to get.

If you omit **NodeID**, the tree information under the root node is output.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The business tree configuration has been successfully acquired.
206	Partial Content	Part of the business tree configuration failed to be acquired.
404	Not Found	The specified category group does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value						
(Root)	object	Root object	-						
Business	object[]	Array of the business tree information	-						
Business[n].TreeNode	object	Business tree information	-						
Business[n].TreeNode.No deID	string	Node ID	-						
Business[n].TreeNode.No deType	string	Node type	<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>root</td><td>Root</td></tr> <tr> <td>group</td><td>Group</td></tr> </tbody> </table>	Setting value	Description	root	Root	group	Group
Setting value	Description								
root	Root								
group	Group								

Parameter	Type	Description	Valid value	
			Setting value	Description
			category	Category
Business[n].TreeNode.DisplayName	string	Display name	Up to 64 characters	
Business[n].TreeNode.IconName	string	Icon name	Up to 256 characters	
Business[n].TreeNode.Schedule	number	Schedule definition status	0: Disabled 1: Enabled	
Business[n].TreeNode.ScheduleID	string	Schedule ID	Caution This parameter is to be deleted. Not available	
Business[n].TreeNode.ScheduleConfigID	string	Schedule definition ID		
Business[n].TreeNode.ScheduleStatus	number	Schedule status	0: Inactive 1: Active * Output only when the schedule definition status is "Enabled".	
Business[n].TreeNode.ActiveStatus	number	Status	0: Stopped 1: Monitoring * Output only when the node type is "category".	
Business[n].TreeNode.Severity	number	Severity	* Output only when the node type is "category".	
Business[n].TreeNode.FilterID	object[]	Array of filter information	* Output only when the node type is "category".	
Business[n].TreeNode.FilterID[m].ID	string	Filter ID		
Business[n].TreeNode.FilterID[m].FilterName	string	Filter name	Up to 256 characters	
Business[n].TreeNode.ChildNode	object[]	Array of child nodes	* Output only when the node type is "root" or "group" The same configuration as the above TreeNode object is applied as a recursive configuration.	
Business[n].Manager	object	Manager object	-	
Business[n].Manager.Name	string	Name of the manager of the category	Name of the manager in which the category exists MoM name or RM name	
Business[n].Manager.ErrorMessage	string	Error messages	-	
Business[n].Manager.Status	number	Communication error code	-	
Business[n].Manager.StatusCode	number	Internal error code	-	

7. Change history

- X-FW-API-Version: 1.1
 - Added Business[n].TreeNode.ScheduleConfigID.
 - Added Business[n].TreeNode.Severity.
- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/business/category HTTP/1.1
x-fw-api-version: 1.0
if-modified-since: Thu, 01 Jun 1970 00:00:00 GMT
Date: Wed, 16 Mar 2016 02:44:15 GMT
Authorization: SharedKeyLite 16ubpcPb793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:418siIBm/GwGTfKfOeCkFqEOBHRoZpn25WYJkGwLvxY=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Transfer-Encoding: chunked
Date: Wed, 16 Mar 2016 02:40:20 GMT

{
  "Business": [
    {
      "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
      },
      "TreeNode": {
        "ChildNode": [
          {
            "ChildNode": [
              {
                "ActiveStatus": 1,
                "DisplayName": "Application log monitoring",
                "FilterID": [
                  {
                    "FilterName": "Message from other than Unified
Management Framework",
                    "ID": "4fdd5848"
                  },
                  {
                    "FilterName": "Message from other than the app

```

```

lication log monitoring",
    "ID": "4fdd5847"
},
{
    "FilterName": "Message from the application
log monitoring",
    "ID": "4fdd5844"
}
],
"IconName": "%SYSTEM_FW_ROOT%$Svc$$image$$Produ
ct$$applicationlogmonitor.ico",
"NodeID": "45ed34d4",
"NodeType": "category",
"Schedule": 0,
"ScheduleID": ""
"ScheduleConfigID": "",
"Severity": 263
},
{
    "ActiveStatus": 1,
    "DisplayName": "Application view",
    "FilterID": [
        {
            "FilterName": "Message from other than Unified
Management Framework",
            "ID": "460a4bdb"
        },
        {
            "FilterName": "Message from other than the app
lication view",
            "ID": "460a4bda"
        },
        {
            "FilterName": "Message from the application
view",
            "ID": "460a4bd8"
        }
    ],
"IconName": "%SYSTEM_FW_ROOT%$Svc$$image$$Produ
ct$$applicationview.ico",
"NodeID": "45ed34df",
"NodeType": "category",
"Schedule": 0,
"ScheduleID": ""
"ScheduleConfigID": "",
"Severity": 263
},
{
    "ActiveStatus": 1,
    "DisplayName": "Business view",
    "FilterID": [
        {
            "FilterName": ""Message from other than Unif
ied Management Framework",
            "ID": "460a4c12"
        },
        {
            "FilterName": "Message from other than the b

```

```

        "business view",
            "ID": "460a4c11"
        },
        {
            "FilterName": "Message from the business vie
w",
                "ID": "54e29bff"
            }
        ],
        "IconName": "%SYSTEM_FW_ROOT%$Svc$$image$$Produ
ct$$businessview.ico",
            "NodeID": "45ed34ed",
            "NodeType": "category",
            "Schedule": 0,
            "ScheduleID": ""
            "ScheduleConfigID": "",
            "Severity": 263
        },
        {
            "ActiveStatus": 1,
            "DisplayName": "Service port monitoring",
            "FilterID": [
                {
                    "FilterName": "Message from other than Unifi
ed Management Framework",
                        "ID": "53843fbb"
                    },
                    {
                        "FilterName": "Message from other than the s
ervice port monitoring",
                            "ID": "53843fba"
                        },
                        {
                            "FilterName": "Message from the service port
monitoring",
                                "ID": "53843fb6"
                            }
            ],
            "IconName": "%SYSTEM_FW_ROOT%$Svc$$image$$Produ
ct$$portmonitor.ico",
                "NodeID": "538440ad",
                "NodeType": "category",
                "Schedule": 0,
                "ScheduleID": ""
                "ScheduleConfigID": "",
                "Severity": 263
            }
        ],
        "DisplayName": "Unified Management Framework",
        "IconName": "%SYSTEM_FW_ROOT%$Svc$$bin$$SysMonSvc.exe
",
            "NodeID": "45ed349e",
            "NodeType": "group",
            "Schedule": 0,
            "ScheduleID": ""
            "ScheduleConfigID": "",
            "Severity": 263
        }
    }
}

```

```

        ],
        "DisplayName": "Business view",
        "IconName": "",
        "NodeID": "00000000",
        "NodeType": "root",
        "Schedule": 0,
        "ScheduleID": ""
        "ScheduleConfigID": "",
        "Severity": 263
    }
}
]
}

```

4.1.2 Getting business node information

1. Process overview

Get the node information of a specified category group or category.

2. HTTP method

GET

3. URL

/umf/fw/business/category/node/**NodeID**?ManagerName=**ManagerName**

In **NodeID**, specify the management ID of the category group or category whose information you want to get.

A node type other than root, group, or category cannot be specified.

When more than one manager exists, specify the manager name acquired by getting the business tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Getting business node information succeeded.
404	Not Found	The specified category group or category does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
TreeNode	object	Business tree information	-

Parameter	Type	Description	Valid value								
TreeNode.NodeID	string	Node ID	-								
TreeNode.NodeType	string	Node type	<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>root</td><td>Root</td></tr> <tr> <td>group</td><td>Group</td></tr> <tr> <td>category</td><td>Category</td></tr> </tbody> </table>	Setting value	Description	root	Root	group	Group	category	Category
Setting value	Description										
root	Root										
group	Group										
category	Category										
TreeNode.DisplayName	string	Display name	Up to 64 characters								
TreeNode.IconName	string	Icon name	Up to 256 characters								
TreeNode.Schedule	number	Schedule definition status	0: Disabled 1: Enabled								
TreeNode.ScheduleID	string	Schedule ID	<p>⚠ Caution</p> <p>This parameter is to be deleted. Not available</p>								
TreeNode.ScheduleConfigID	string	Schedule definition ID									
TreeNode.ScheduleStatus	number	Schedule status	0: Inactive 1: Active * Output only when the schedule definition status is "Enabled".								
TreeNode.ActiveStatus	number	Status	0: Stopped 1: Monitoring * Output only when the node type is "category".								
TreeNode.Severity	number	Severity	* Output only when the node type is "category".								
TreeNode.FilterID	object[]	Array of filter information	* Output only when the node type is "category".								
TreeNode.FilterID[n].ID	string	Filter ID									
TreeNode.FilterID[n].FilterName	string	Filter name	Up to 256 characters								
TreeNode.ChildGroup	object[]	Array of child group information	* Output only when the node type is "root" or "group".								
TreeNode.ChildGroup[n].ID	string	Node ID of the child group									
TreeNode.ChildGroup[n].DisplayName	string	Display name of the child group	Up to 64 characters								
TreeNode.ChildCategory	object[]	Array of child category information	* Output only when the node type is "root" or "group".								
TreeNode.ChildCategory[n].ID	string	Node ID of the child category									
TreeNode.ChildCategory[n].DisplayName	string	Display name of the child category	Up to 64 characters								
Manager	object	Manager object	-								

Parameter	Type	Description	Valid value
Manager.Name	string	Name of the manager of the category	Name of the manager in which the category exists MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.1
 - Added TreeNode.ScheduleConfigID.
 - Added TreeNode.Severity.
- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/business/category/node/45ed349e HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 03:08:04 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:kT9tmr+N3UiOC0dqTD+vazHxzMt+2CfcLJZevbNMPKI=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1663
Date: Wed, 16 Mar 2016 03:04:09 GMT

{
  "Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
  },
  "TreeNode": {
    "ChildCategory": [
      {
        "DisplayName": "Application log",
        "ID": "45ed34d4"
      },
      {
        "DisplayName": "Application View",
        "ID": "45ed34df"
      }
    ]
  }
}
```

```
        },
        {
            "DisplayName": "Business View",
            "ID": "45ed34ed"
        },
        {
            "DisplayName": "Express Cluster",
            "ID": "45ed34fd"
        },
        {
            "DisplayName": "Windows Service",
            "ID": "45ed3512"
        },
        {
            "DisplayName": "Performance",
            "ID": "45ed351c"
        },
        {
            "DisplayName": "Process",
            "ID": "45ed3525"
        },
        {
            "DisplayName": "Topology View",
            "ID": "45ed3539"
        },
        {
            "DisplayName": "Event Correlation",
            "ID": "4647b9e1"
        },
        {
            "DisplayName": "Scenario View",
            "ID": "4647ba4f"
        },
        {
            "DisplayName": "File Monitor",
            "ID": "47623d95"
        },
        {
            "DisplayName": "Manager Linker",
            "ID": "47623da0"
        },
        {
            "DisplayName": "Operation View",
            "ID": "47ff15e3"
        },
        {
            "DisplayName": "Application Linker",
            "ID": "483101de"
        },
        {
            "DisplayName": "ServiceManager Linker",
            "ID": "49250745"
        },
        {
            "DisplayName": "Message Manager",
            "ID": "49409557"
        },
        {
```

```

        "DisplayName": "Invariant Analysis",
        "ID": "4b44228f"
    },
    {
        "DisplayName": "MultiGraph View",
        "ID": "4dd4fb60"
    },
    {
        "DisplayName": "Event Log",
        "ID": "4fd0b551"
    },
    {
        "DisplayName": "RemoteConnectCtl (API/WMI)",
        "ID": "4fd0b584"
    },
    {
        "DisplayName": "RemoteConnectCtl (SSH)",
        "ID": "50a49792"
    },
    {
        "DisplayName": "Syslog",
        "ID": "50a497d9"
    },
    {
        "DisplayName": "Service Port Monitor",
        "ID": "538440ad"
    }
],
"ChildGroup": [],
"DisplayName": "Unified Management Framework",
"IconName": "%SYSTEM_FW_ROOT%$Svc$bin$SysMonSvc.exe",
"NodeID": "45ed349e",
"NodeType": "group",
"Schedule": 0,
"ScheduleID": "",
"ScheduleConfigID": "",
"Severity": 263
}
}

```

4.1.3 Adding a category group

1. Process overview

Add a category group to the node ID specified in a request.

2. HTTP method

POST

3. URL

/umf/fw/business/group/**NodeID**

In **NodeID**, specify the node ID to which to add a category (root/group).

When more than one manager exists, specify the manager name acquired by getting the business tree configuration in **ManagerName**.

You can register an already existing group name.

4. Parameter

Parameter	Type	Description	Omittable	Valid value
(Root)	object	Root object	No	-
DisplayName	string	Name of the category group to be added	No	Up to 64 characters
Schedule	number	Schedule setting		0: Do not set 1: Set * An error occurs if a nonexistent ScheduleConfigID is specified when the schedule is set. Default value: 0: Do not set
ScheduleConfigID	string	Schedule definition ID		8 digits in hexadecimal
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

For the schedule definition ID, specify the one acquired in "[Getting the schedule list \(page 329\)](#)".

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The category group has been successfully added.
400	Bad Request	The node type of the node ID to which to add a category is other than root and group.
403	Forbidden	When the overwriting of the monitoring setting is prohibited
404	Not Found	The specified node ID (root or group) does not exist. The specified schedule definition ID (ScheduleConfigID) does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string	Node ID of the added category group	8 digits in hexadecimal
DisplayName	string	Name of the added category group	Up to 64 characters

Parameter	Type	Description	Valid value
Schedule	number	Schedule setting	0: Do not set 1: Set
ScheduleConfigID	string	Schedule definition ID	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.1
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/topology/group/00000000 HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, /*
Date: Fri, 13 May 2016 02:18:45 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:zrs9XSanG7XwOpBBWWSSqj4pRbZubfx3406he5C3jY38=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 75

{
    "DisplayName": "GroupX",
    "Schedule": 1,
    "ScheduleConfigID": "57353d02"
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 162
Date: Fri, 13 May 2016 02:35:20 GMT

{
    "Schedule" : 1,
    "ScheduleConfigID" : "57353d02",
```

```

    "ID" : "57353d68",
    "DisplayName" : "GroupX",
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}

```

4.1.4 Updating a category group

1. Process overview

Update a category group of the node ID specified in a request.

2. HTTP method

PUT

3. URL

/umf/fw/business/group/**NodeID**

In **NodeID**, specify the node ID of the category group to be updated (root/group).

When more than one manager exists, specify the manager name acquired by getting the business tree configuration in **ManagerName**.

You can register an already existing category group name.

4. Parameter

Parameter	Type	Description	O m i tta bl e	Valid value
(Root)	object	Root object	No	-
DisplayName	string	Name of the category group to be updated		Up to 64 characters A null character cannot be specified. ⚠ Caution If the node type of the node ID of the category group to be updated is “root”, the group name cannot be updated. (What is specified is skipped.)
Schedule	number	Schedule setting		0: Do not set 1: Set
ScheduleConfigID	string	Schedule definition ID		When you specify “1: Set” for the schedule setting (Schedule) and the schedule definition ID (ScheduleConfigID) is not set for any existing node, the schedule definition ID (ScheduleConfigID) must be specified.

Parameter	Type	Description	Omitable	Valid value
				When you specify "0: Do not set" for Schedule, the key of the set schedule definition ID is skipped. When the value of Schedule is changed from 1 (Set) to 0 (Do not set), the schedule definition ID and schedule ID (ScheduleID) that are set for the existing node are deleted. 8 digits in hexadecimal
Manager	object	Manager object	-	
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The group has been successfully updated.
400	Bad Request	When the node type of the node ID of the category group to be updated is other than root and group
403	Forbidden	When the overwriting of the monitoring setting is prohibited
404	Not Found	The specified node ID (root or group) does not exist. The specified schedule definition ID (ScheduleConfigID) does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string	Node ID of the updated monitoring group	8 digits in hexadecimal
DisplayName	string	Name of the updated monitoring group	Up to 64 characters
Schedule	number	Schedule setting	0: Do not set 1: Set
ScheduleConfigID	string	Schedule definition ID	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-

Parameter	Type	Description	Valid value
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* If the group information (DisplayName, Schedule, and ScheduleConfigID) has not been updated, the group information (ID, DisplayName, Schedule, and ScheduleConfigID) is not output.

7. Change history

- X-FW-API-Version : 1.1
 - Newly added.

8. JSON example

[Request]

```
PUT /umf/fw/topology/group/57353d68 HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, /*
Date: Fri, 13 May 2016 02:33:11 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:ynj3aF+obTeN49E3DxoQVvPndlbtAwgsDw/eu1D+7iM=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 69

{
  "DisplayName" : "GroupX",
  "Schedule" : 0,
  "ScheduleConfigID" : null
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 162
Date: Fri, 13 May 2016 02:49:46 GMT

{
  "Schedule" : 0,
  "ScheduleConfigID" : "57353d02",
  "ID" : "57353d68",
  "DisplayName" : "GroupX",
  "Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
```

```

        "ErrorMessage" : ""
    }

```

4.1.5 Deleting the category group

1. Process overview

Delete the category group to the node ID specified in a request.

2. HTTP method

DELETE

3. URL

/umf/fw/business/group/**NodeID**?ManagerName=**ManagerName**

In **NodeID**, specify the node ID whose information you want to delete.

Nodes in the specified group are also deleted.

When more than one manager exists, specify the manager name acquired by getting the business tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Deleting the group succeeded.
400	Bad Request	When the deletion target node ID whose node type is other than "group"
403	Forbidden	When the overwriting of the monitoring setting is prohibited
404	Not Found	The specified host does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string	Node ID of the deleted group	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.1
 - Newly added.

8. JSON example

[Request]

```
DELETE /umf/fw/topology/group/57353d68 HTTP/1.1
Accept: application/json, /*
Date: Fri, 13 May 2016 02:41:09 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:lpX9QD43Pi7JDRuuDoywjPUtHPP57d+cM0Kfs91kxYw=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 96
Date: Fri, 13 May 2016 02:57:44 GMT

{
  "ID" : "57353d68",
  "Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
  }
}
```

4.1.6 Adding a category

1. Process overview

Add a category to the node ID specified in a request.

2. HTTP method

POST

3. URL

/umf/fw/business/category/node/**NodeID**

In **NodeID**, specify the node ID to which to add a category (root/group).

When more than one manager exists, specify the manager name acquired by getting the business tree configuration in **ManagerName**.

You can register an already existing category name.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
DisplayName	string	Name of the category to be added	No	Up to 64 characters
Schedule	number	Schedule setting		0: Do not set 1: Set * An error occurs if a nonexistent ScheduleConfigID is specified when the schedule is set. Default value: 0: Do not set
ScheduleConfigID	string	Schedule definition ID		8 digits in hexadecimal When you specify "1: Set" for the schedule setting (Schedule), the schedule definition ID (ScheduleConfigID) must be specified. When you specify "0: Do not set" for Schedule, the set schedule definition ID (ScheduleConfigID) is skipped.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

For the schedule definition ID, specify the one acquired in "[Getting the schedule list \(page 329\)](#)".

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The category has been successfully added.
400	Bad Request	The node type of the node ID to which to add a category is other than root and group.
403	Forbidden	When the overwriting of the monitoring setting is prohibited
404	Not Found	The specified node ID (root or group) does not exist. The specified schedule definition ID (ScheduleConfigID) does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string	Node ID of the added category	8 digits in hexadecimal
DisplayName	string	Name of the added category	Up to 64 characters
Schedule	number	Schedule setting	0: Do not set 1: Set
ScheduleConfigID	string	Schedule definition ID	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.1
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/topology/group/00000000 HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, /*
Date: Fri, 13 May 2016 02:18:45 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:zrs9XSanG7XwOpBBWWSSqj4pRbzubfx3406he5C3jY38=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 75

{
    "DisplayName": "GroupX",
    "Schedule": 1,
    "ScheduleConfigID": "57353d02"
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
```

```

Content-Type: application/json; charset=UTF-8
Content-Length: 162
Date: Fri, 13 May 2016 02:35:20 GMT

{
    "Schedule" : 1,
    "ScheduleConfigID" : "57353d02",
    "ID" : "57353d68",
    "DisplayName" : "GroupX",
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}

```

4.1.7 Updating the category

1. Process overview

Update the category of the node ID specified in a request.

2. HTTP method

PUT

3. URL

/umf/fw/business/category/node/**NodeID**

In **NodeID**, specify the node ID whose information you want to update.

A node ID whose node type is other than category cannot be specified.

When more than one manager exists, specify the manager name acquired by getting the business tree configuration in **ManagerName**.

4. Parameter

Parameter	Type	Description	O m i tta b l e	Valid value
(Root)	object	Root object	No	-
DisplayName	string	Name of the category to be updated A null character cannot be specified.	No	Up to 64 characters
Schedule	number	Schedule setting		0: Do not set 1: Set * An error occurs if a nonexistent ScheduleConfigID is specified when the schedule is set.
ScheduleConfigID	string	Schedule definition ID		8 digits in hexadecimal

Parameter	Type	Description	Omittable	Valid value
				When you specify "1: Set" for the schedule setting (Schedule) and the schedule definition ID (ScheduleConfigID) is not set for any existing node, the schedule definition ID (ScheduleConfigID) must be specified. When you specify "0: Do not set" for Schedule, the set schedule definition ID (ScheduleConfigID) is skipped. When the value of Schedule is changed from 1 (Set) to 0 (Do not set), the schedule definition ID and schedule ID (ScheduleID) that are set for the existing node are deleted.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

For the schedule definition ID, specify the one acquired in "[Getting the schedule list \(page 329\)](#)".

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Updating the category succeeded.
400	Bad Request	When the update target node ID whose node type is other than "category"
403	Forbidden	When the overwriting of the monitoring setting is prohibited
404	Not Found	When the specified node ID (category) does not exist The specified schedule definition ID (ScheduleConfigID) does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string	Node ID of the updated category	8 digits in hexadecimal
DisplayName	string	Updated category name	Up to 64 characters
Schedule	number	Schedule setting	0: Do not set 1: Set
ScheduleConfigID	string	Schedule definition ID	8 digits in hexadecimal
Manager	object	Manager object	-

Parameter	Type	Description	Valid value
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* If the group information (DisplayName, Schedule, and ScheduleConfigID) has not been updated, the group information (ID, DisplayName, Schedule, and ScheduleConfigID) is not output.

7. Change history

- X-FW-API-Version : 1.1
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/topology/group/00000000 HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, /*
Date: Fri, 13 May 2016 02:18:45 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4W0cJyLcbTp28IylwP4Q
hs=:zrs9XSanG7XwOpBBWSqj4pRbZubfx3406he5C3jY38=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 75

{
    "DisplayName": "GroupX",
    "Schedule": 1,
    "ScheduleConfigID": "57353d02"
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 162
Date: Fri, 13 May 2016 02:35:20 GMT

{
    "Schedule" : 1,
    "ScheduleConfigID" : "57353d02",
    "ID" : "57353d68",
    "DisplayName" : "GroupX",
```

```

    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}

```

4.1.8 Deleting the category

1. Process overview

Delete the category to the node ID specified in a request.

2. HTTP method

DELETE

3. URL

/umf/fw/business/category/node/**NodeID**?ManagerName=**ManagerName**

In **NodeID**, specify the node ID whose information you want to delete.

A node ID whose node type is other than category cannot be specified.

When more than one manager exists, specify the manager name acquired by getting the business tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Deleting the category succeeded.
400	Bad Request	When the deletion target node ID whose node type is other than "category"
403	Forbidden	When the overwriting of the monitoring setting is prohibited
404	Not Found	When the specified node ID (category) does not exist The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string	Node ID of the deleted category	8 digits in hexadecimal
Manager	object	Manager object	-

Parameter	Type	Description	Valid value
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.1

- Newly added.

8. JSON example

[Request]

```
DELETE /umf/fw/topology/group/57353d68 HTTP/1.1
Accept: application/json, /*
Date: Fri, 13 May 2016 02:41:09 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQH4WOCJyLcbTp28IylwP4Q
hs=:lpX9QD43Pi7JDRuuDoywjPUtHPP57d+cM0Kfs91kxYw=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 96
Date: Fri, 13 May 2016 02:57:44 GMT

{
  "ID" : "57353d68",
  "Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
  }
}
```

4.1.9 Getting a filter list

1. Process overview

Get a list of filters that are set for the category of a specified category ID.

2. HTTP method

GET

3. URL

/umf/fw/business/category/filter/**CategoryID**?ManagerName=**ManagerName**

In **CategoryID**, specify the category ID acquired with the business tree configuration and business node information.

A category ID whose node type is other than category cannot be specified.

When more than one manager exists, specify the manager name acquired by getting the business tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Getting a filter list succeeded.
400	Bad Request	When a resource ID other than a category ID is specified
404	Not Found	The specified category ID does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(ROOT)	object	Root object type	-
Filter	object[]	Array of filter information	-
Filter[n].FilterID	string	Filter ID	
Filter[n].CategoryID	string	Category ID	
Filter[n].FilterName	string	Filter name	Up to 256 characters
Filter[n].FilterType	number	Type of the filter	0: Storage filter 1: Deletion filter
Filter[n].NodeNot	number	Negation specification of the node name condition	0: Affirmation 1: Negation
Filter[n].Node	string	Node name condition	Up to 256 characters
Filter[n].CategoryNot	number	Negation specification of the category name condition	0: Affirmation 1: Negation
Filter[n].Category	string	Category name condition	Up to 32 characters

Parameter	Type	Description	Valid value
Filter[n].ApplicationNot	number	Negation specification of the application name condition	0: Affirmation 1: Negation
Filter[n].Application	string	Application name condition	Up to 128 characters
Filter[n].ObjectNot	number	Negation specification of the object name condition	0: Affirmation 1: Negation
Filter[n].Object	string	Object name condition	Up to 128 characters
Filter[n].MessageIDNot	number	Negation specification of the message ID condition	0: Affirmation 1: Negation
Filter[n].MessageID	string	Message ID condition	Up to 128 characters
Filter[n].MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation
Filter[n].MessageText	string	Message text condition	Up to 1024 characters
Filter[n].SeverityNot	number	Negation specification of severity	0: Affirmation 1: Negation
Filter[n].Severity	number	Severity condition	If this item is not specified, 0 is assumed.
Filter[n].SelPos	object[]	Array of the SelPos conditions	
Filter[n].SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelPos[m].Position	number	Comparison position	1: Origin
Filter[n].SelPos[m].CompareType	number	Comparison type	0: = 1: <> 2: >= 3: > 4: <= 5: <
Filter[n].SelPos[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].SelKey	object[]	Array of the SelKey conditions	
Filter[n].SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelKey[m].Key	string	Key character string	Up to 64 characters
Filter[n].SelKey[m].CompareType	number	Comparison type	0: = 1: <> 2: >= 3: > 4: <= 5: <
Filter[n].SelKey[m].Value	string	Comparison character string	
Filter[n].OverWriteSeverity	number	Severity change specification	If this item is not specified, 0 is assumed. * Output only when the filter type is storage filter.

Parameter	Type	Description	Valid value
Filter[n].DisplayPosition	number	Display position	1: Origin * Output only when the filter type is storage filter.
Filter[n].AutoConfirm	number	Automatic reception confirmation specification	0: Not automatically confirmed 1: Automatically confirmed * Output only when the filter type is storage filter.
Filter[n].HelpApplication	string	Help application	Up to 256 characters * Output only when the filter type is storage filter.
Filter[n].HelpDirectory	string	Work directory used when the Help application is started	Up to 256 characters * Output only when the filter type is storage filter.
Filter[n].HelpOption	string	Help application startup option	Up to 128 characters * Output only when the filter type is storage filter.
Filter[n].Relation1	number	Related information 1	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].Relation1Def	object	Definition of related information 1	* Output only when the filter type is storage filter.
Filter[n].Relation1Def.DisplayText	string	Display name	Up to 16 characters
Filter[n].Relation1Def.Application	string	Application	Up to 256 characters
Filter[n].Relation1Def.Directory	string	Work directory	Up to 256 characters
Filter[n].Relation1Def.Option	string	Option	Up to 128 characters
Filter[n].Relation2	number	Related information 2	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].Relation2Def	object	Definition of related information 2	* Output only when the filter type is storage filter.
Filter[n].Relation2Def.DisplayText	string	Display name	Up to 16 characters
Filter[n].Relation2Def.Application	string	Application	Up to 256 characters
Filter[n].Relation2Def.Directory	string	Work directory	Up to 256 characters
Filter[n].Relation2Def.Option	string	Option	Up to 128 characters

Parameter	Type	Description	Valid value
Filter[n].Recovery	number	Recovery status	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].RecoveryID	string	Recovery ID	* Output only when the filter type is storage filter.
Filter[n].RecoveryAutoConfirm	number	Specification of automatic deletion upon normal recovery end	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].Report	number	Report status	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].ReportID	string	Report ID	* Output only when the filter type is storage filter.
Filter[n].ReportAutoConfirm	number	Specification of automatic deletion upon normal report end	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].HelpDesk	number	Help desk status	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].HelpDeskID	string	Help desk ID	* Output only when the filter type is storage filter.
Filter[n].HelpDeskAutoConfirm	number	Specification of automatic deletion upon normal Help desk end	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].HelpDeskManual	number	Specification of manual Help desk execution	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].Option1Def	object	Option definition 1	* Output only when the filter type is storage filter.
Filter[n].Option1Def.Title	string	Display title	Up to 32 characters
Filter[n].Option1Def.ViewType	number	Display type	0: HTML view 1: Text
Filter[n].Option1Def.Text	string	Display character string	Up to 1024 characters
Filter[n].Option2Def	object	Option definition 2	* Output only when the filter type is storage filter.
Filter[n].Option2Def.Title	string	Display title	Up to 32 characters
Filter[n].Option2Def.ViewType	number	Display type	0: HTML view 1: Text
Filter[n].Option2Def.Text	string	Display character string	Up to 1024 characters

Parameter	Type	Description	Valid value
Manager	object	Manager object	-
Manager.Name	string	Manager name	Manager name MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0

- Newly added.

8. JSON example

[Request]

```
GET /umf/fw/business/category/filter/45ed3512 HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 06:56:02 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:ZuyR35Q5I211Vm6az7yDBhaDwz0XXI60e0ral/D+N2c=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 7750
Date: Wed, 16 Mar 2016 06:52:07 GMT

{
  "Filter": [
    {
      "Application": "",
      "ApplicationNot": 0,
      "Category": "Unified Management Framework",
      "CategoryID": "45ed3512",
      "CategoryNot": 1,
      "FilterID": "4fd0b364",
      "FilterName": "Unified Management Framework",
      "FilterType": 1,
      "MessageID": "",
      "MessageIDNot": 0,
      "MessageText": "",
      "MessageTextNot": 0,
      "Node": "",
      "NodeNot": 0,
      "Object": "",
      "ObjectNot": 0,
      "SelKey": []
    }
  ]
}
```

```

        "SelPos": [],
        "Severity": 0,
        "SeverityNot": 0
    },
    {
        "Application": "",
        "ApplicationNot": 0,
        "Category": "",
        "CategoryID": "45ed3512",
        "CategoryNot": 0,
        "FilterID": "4fd0b363",
        "FilterName": "Windows",
        "FilterType": 1,
        "MessageID": "",
        "MessageIDNot": 0,
        "MessageText": "",
        "MessageTextNot": 0,
        "Node": "",
        "NodeNot": 0,
        "Object": "^NTServiceMonitor$",
        "ObjectNot": 1,
        "SelKey": [],
        "SelPos": [],
        "Severity": 0,
        "SeverityNot": 0
    },
    {
        "Application": "",
        "ApplicationNot": 0,
        "AutoConfirm": 0,
        "Category": "",
        "CategoryID": "45ed3512",
        "CategoryNot": 0,
        "DisplayPosition": 1,
        "FilterID": "4fd0b362",
        "FilterName": "Windows",
        "FilterType": 0,
        "HelpApplication": "",
        "HelpDesk": 0,
        "HelpDeskAutoConfirm": 0,
        "HelpDeskID": "",
        "HelpDeskManual": 0,
        "HelpDirectory": "",
        "HelpOption": "",
        "MessageID": "^0009000[1-3]$",
        "MessageIDNot": 0,
        "MessageText": "",
        "MessageTextNot": 0,
        "Node": "",
        "NodeNot": 0,
        "Object": "",
        "ObjectNot": 0,
        "Option1Def": {
            "Text": " $REPKEY(\"(NODE\") $REPKEY(\"(SNAME\") $REPKEY(\"(OLD\") $REPKEY(\"(NEW\")",
            "Title": "",
            "ViewType": 0
        }
    }

```

```

    "Option2Def": {
        "Text": "",
        "Title": "",
        "ViewType": 0
    },
    "OverWriteSeverity": 0,
    "Recovery": 0,
    "RecoveryAutoConfirm": 0,
    "RecoveryID": "",
    "Relation1": 0,
    "Relation1Def": {
        "Application": "",
        "Directory": "",
        "DisplayText": "",
        "Option": ""
    },
    "Relation2": 0,
    "Relation2Def": {
        "Application": "",
        "Directory": "",
        "DisplayText": "",
        "Option": ""
    },
    "Report": 0,
    "ReportAutoConfirm": 0,
    "ReportID": "",
    "SelKey": [],
    "SelPos": [],
    "Severity": 0,
    "SeverityNot": 0
},
{
    "Application": "",
    "ApplicationNot": 0,
    "AutoConfirm": 0,
    "Category": "",
    "CategoryID": "45ed3512",
    "CategoryNot": 0,
    "DisplayPosition": 1,
    "FilterID": "4fd0b35d",
    "FilterName": "Windows",
    "FilterType": 0,
    "HelpApplication": "",
    "HelpDesk": 0,
    "HelpDeskAutoConfirm": 0,
    "HelpDeskID": "",
    "HelpDeskManual": 0,
    "HelpDirectory": "",
    "HelpOption": "",
    "MessageID": "^0019[0-9]{4}$",
    "MessageIDNot": 0,
    "MessageText": "",
    "MessageTextNot": 0,
    "Node": "",
    "NodeNot": 0,
    "Object": "",
    "ObjectNot": 0,
    "Option1Def": {

```

```

        "Text": "",
        "Title": "",
        "ViewType": 0
    },
    "Option2Def": {
        "Text": "",
        "Title": "",
        "ViewType": 0
    },
    "OverWriteSeverity": 0,
    "Recovery": 0,
    "RecoveryAutoConfirm": 0,
    "RecoveryID": "",
    "Relation1": 0,
    "Relation1Def": {
        "Application": "",
        "Directory": "",
        "DisplayText": "",
        "Option": ""
    },
    "Relation2": 0,
    "Relation2Def": {
        "Application": "",
        "Directory": "",
        "DisplayText": "",
        "Option": ""
    },
    "Report": 1,
    "ReportAutoConfirm": 0,
    "ReportID": "56de9150",
    "SelKey": [],
    "SelPos": [],
    "Severity": 0,
    "SeverityNot": 0
},
{
    "Application": "",
    "ApplicationNot": 0,
    "AutoConfirm": 0,
    "Category": "Application",
    "CategoryID": "45ed3512",
    "CategoryNot": 0,
    "DisplayPosition": 1,
    "FilterID": "56de7877",
    "FilterName": "testFilter",
    "FilterType": 0,
    "HelpApplication": "",
    "HelpDesk": 0,
    "HelpDeskAutoConfirm": 0,
    "HelpDeskID": "",
    "HelpDeskManual": 0,
    "HelpDirectory": "",
    "HelpOption": "",
    "MessageID": "",
    "MessageIDNot": 0,
    "MessageText": "",
    "MessageTextNot": 0,
    "Node": ""
}

```

```

    "NodeNot": 0,
    "Object": "",
    "ObjectNot": 0,
    "Option1Def": {
        "Text": "",
        "Title": "",
        "ViewType": 0
    },
    "Option2Def": {
        "Text": "",
        "Title": "",
        "ViewType": 0
    },
    "OverWriteSeverity": 0,
    "Recovery": 0,
    "RecoveryAutoConfirm": 0,
    "RecoveryID": "",
    "Relation1": 0,
    "Relation1Def": {
        "Application": "",
        "Directory": "",
        "DisplayText": "",
        "Option": ""
    },
    "Relation2": 0,
    "Relation2Def": {
        "Application": "",
        "Directory": "",
        "DisplayText": "",
        "Option": ""
    },
    "Report": 1,
    "ReportAutoConfirm": 1,
    "ReportID": "56de78ea",
    "SelKey": [],
    "SelPos": [],
    "Severity": 0,
    "SeverityNot": 0
}
],
"Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
}
}

```

4.1.10 Getting filter details

1. Process overview

Get the filter setting information of the specified filter ID.

2. HTTP method

GET

3. URL

```
/umf/fw/business/filter/FilterID?ManagerName=ManagerName
```

In **FilterID**, specify the filter ID acquired with the business tree configuration, business node information, and filter list.

When more than one manager exists, specify the manager name acquired by getting the business tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Getting filter details succeeded.
400	Bad Request	When a resource ID other than the filter ID is specified
404	Not Found	The specified filter ID does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value:
(ROOT)	object	Root object type	-
Filter	object	Filter information	-
Filter.FilterID	string	Filter ID	
Filter.CategoryID	string	Category ID	
Filter.FilterName	string	Filter name	Up to 256 characters
Filter.FilterType	number	Type of the filter	0: Storage filter 1: Deletion filter
Filter.NodeNot	number	Negation specification of the node name condition	0: Affirmation 1: Negation
Filter.Node	string	Node name condition	Up to 256 characters
Filter.CategoryNot	number	Negation specification of the category name condition	0: Affirmation 1: Negation
Filter.Category	string	Category name condition	Up to 32 characters
Filter.ApplicationNot	number	Negation specification of the application name condition	0: Affirmation 1: Negation
Filter.Application	string	Application name condition	Up to 128 characters
Filter.ObjectNot	number	Negation specification of the object name condition	0: Affirmation 1: Negation

Parameter	Type	Description	Valid value:
Filter.Object	string	Object name condition	Up to 128 characters
Filter.MessageIDNot	number	Negation specification of the message ID condition	0: Affirmation 1: Negation
Filter.MessageID	string	Message ID condition	Up to 128 characters
Filter.MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation
Filter.MessageText	string	Message text condition	Up to 1024 characters
Filter.SeverityNot	number	Negation specification of severity	0: Affirmation 1: Negation
Filter.Severity	number	Severity condition	If this item is not specified, 0 is assumed.
Filter.SelPos	object[]	Array of the SelPos conditions	
Filter.SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter.SelPos[m].Position	number	Comparison position	1: Origin
Filter.SelPos[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter.SelPos[m].Value	string	Comparison character string	Up to 64 characters
Filter.SelKey	object[]	Array of the SelKey conditions	
Filter.SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter.SelKey[m].Key	string	Key character string	Up to 64 characters
Filter.SelKey[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter.SelKey[m].Value	string	Comparison character string	Up to 64 characters
Filter.OverWriteSeverity	number	Severity change specification	If this item is not specified, 0 is assumed. * Output only when the filter type is storage filter.
Filter.DisplayPosition	number	Display position	1: Origin * Output only when the filter type is storage filter.
Filter.AutoConfirm	number	Automatic reception confirmation specification	0: Not automatically confirmed 1: Automatically confirmed * Output only when the filter type is storage filter.

Parameter	Type	Description	Valid value:
Filter.HelpApplication	string	Help application	Up to 256 characters * Output only when the filter type is storage filter.
Filter.HelpDirectory	string	Work directory used when the Help application is started	Up to 256 characters * Output only when the filter type is storage filter.
Filter.HelpOption	string	Help application startup option	Up to 128 characters * Output only when the filter type is storage filter.
Filter.Relation1	number	Related information 1	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter.Relation1Def	object	Definition of related information 1	* Output only when the filter type is storage filter.
Filter.Relation1Def.DisplayText	string	Display name	Up to 16 characters
Filter.Relation1Def.Application	string	Application	Up to 256 characters
Filter.Relation1Def.Directory	string	Work directory	Up to 256 characters
Filter.Relation1Def.Option	string	Option	Up to 128 characters
Filter.Relation2	number	Related information 2	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter.Relation2Def	object	Definition of related information 2	* Output only when the filter type is storage filter.
Filter.Relation2Def.DisplayText	string	Display name	Up to 16 characters
Filter.Relation2Def.Application	string	Application	Up to 256 characters
Filter.Relation2Def.Directory	string	Work directory	Up to 256 characters
Filter.Relation2Def.Option	string	Option	Up to 128 characters
Filter.Recovery	number	Recovery status	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter.RecoveryID	string	Recovery ID	* Output only when the filter type is storage filter.
Filter.RecoveryAutoConfirm	number	Specification of automatic deletion upon normal recovery end	0: Disabled 1: Enabled * Output only when the filter type is storage filter.

Parameter	Type	Description	Valid value:
Filter.Report	number	Report status	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter.ReportID	string	Report ID	* Output only when the filter type is storage filter.
Filter.ReportAutoConfirm	number	Specification of automatic deletion upon normal report end	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter.HelpDesk	number	Help desk status	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter.HelpDeskID	string	Help desk ID	* Output only when the filter type is storage filter.
Filter.HelpDeskAutoConfig	number	Specification of automatic deletion upon normal Help desk end	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter.HelpDeskManual	number	Specification of manual Help desk execution	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter.Option1Def	object	Option definition 1	* Output only when the filter type is storage filter.
Filter.Option1Def.Title	string	Display title	Up to 32 characters
Filter.Option1Def.ViewType	number	Display type	0: HTML view 1: Text
Filter.Option1Def.Text	string	Display character string	Up to 1024 characters
Filter.Option2Def	object	Option definition 2	* Output only when the filter type is storage filter.
Filter.Option2Def.Title	string	Display title	Up to 32 characters
Filter.Option2Def.ViewType	number	Display type	0: HTML view 1: Text
Filter.Option2Def.Text	string	Display character string	Up to 1024 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	Manager name MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/business/filter/56de7877 HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 06:19:33 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:4rSevr5TD209u5KdaemyEXefIJZQvz0gsGDqyMUpEqU=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1000
Date: Wed, 16 Mar 2016 06:15:38 GMT

{
    "Filter": {
        "Application": "",
        "ApplicationNot": 0,
        "AutoConfirm": 0,
        "Category": "Application",
        "CategoryID": "45ed3512",
        "CategoryNot": 0,
        "DisplayPosition": 1,
        "FilterID": "56de7877",
        "FilterName": "testFilter",
        "FilterType": 0,
        "HelpApplication": "",
        "HelpDesk": 0,
        "HelpDeskAutoConfirm": 0,
        "HelpDeskID": "",
        "HelpDeskManual": 0,
        "HelpDirectory": "",
        "HelpOption": "",
        "MessageID": "",
        "MessageIDNot": 0,
        "MessageText": "",
        "MessageTextNot": 0,
        "Node": "",
        "NodeNot": 0,
        "Object": "",
        "ObjectNot": 0,
        "Option1Def": {
            "Text": "",
            "Title": "",
            "ViewType": 0
        },
        "Option2Def": {
            "Text": ""
        }
    }
}
```

```

        "Title": "",
        "ViewType": 0
    },
    "OverWriteSeverity": 0,
    "Recovery": 0,
    "RecoveryAutoConfirm": 0,
    "RecoveryID": "",
    "Relation1": 0,
    "Relation1Def": {
        "Application": "",
        "Directory": "",
        "DisplayText": "",
        "Option": ""
    },
    "Relation2": 0,
    "Relation2Def": {
        "Application": "",
        "Directory": "",
        "DisplayText": "",
        "Option": ""
    },
    "Report": 1,
    "ReportAutoConfirm": 1,
    "ReportID": "56de78ea",
    "SelKey": [],
    "SelPos": [],
    "Severity": 0,
    "SeverityNot": 0
},
"Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
}
}
}

```

4.1.11 Editing the filter definition of a category

1. Process overview

Edit (add, delete, update, or update the priority order) the filter definition of a specified category.

Operation	Description
Addition	If Filter[n].FilterID (filter ID) is not specified, new filter information is added.
Update	If Filter[n].FilterID (filter ID) is specified, the matching filter information is updated. As for the parameters that can be omitted, if you specify only those items whose settings you want to modify, the remaining items are kept defined. By specifying "1: Do not modify" in Filter[n].NotModify (no modification flag), you can intentionally prevent the definitions from being updated.
Deletion	If you do not specify defined filter information, the defined filter information is deleted.

Operation	Description
Priority order	This is set by the order of defined filters.

- * Recovery and Help desk cannot be specified from WebAPI. The recovery and Help desk functions are disabled for a new filter created with WebAPI. (It is possible to perform the update from the console.) Recovery and Help desk cannot be updated with WebAPI, either.
- * Even if 1: Deletion filter is set for the filter type, the display and option definitions (message suppression function) can be set. However, since deleted messages become the target, the function is not enabled.
- * Even if the event correlation business view linkage function uses the filter definition for event correlation, the filter type can be changed from storage to deletion.

2. HTTP method

POST

3. URL

/umf/fw/business/filter/**NodeID**

In **NodeID**, specify the category ID acquired with the business tree configuration and business node information.

A node ID whose node type is other than category cannot be specified.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Filter	object[]	Filter definition information of a category to be edited	No	-
Filter[n].FilterID	string	Management ID of the filter		8 digits in hexadecimal If this item is omitted, the addition process is performed. If this item is omitted, the update process is performed.
Filter[n].NotModify	number	No change flag		0: Change 1: No change Used only when the filter is updated. If 0 is specified, the filter information is considered to have been changed and all the subsequent keys are checked. If 1 is specified, the filter information is considered to not have been changed and none of the subsequent keys is checked. * If you want to change only a specific filter, the order of priority, etc., specifying 1 in

Parameter	Type	Description	Omitable	Valid value
				this key improves the processing performance. Default value: 0: Change
Filter[n].FilterName	string	Filter name		Up to 256 characters Whether the key is required or not is as follows. When FilterID is omitted (add): Required When FilterID is specified (update): Optional
Filter[n].FilterType	number	Filter type		0: Storage filter 1: Deletion filter Default value: 0: Storage filter
Filter[n].NodeNot	number	Negation specification of the node name condition		0: Affirmation 1: Negation Default value: 0: Affirmation
Filter[n].Node	string	Node name condition		Up to 256 characters
Filter[n].CategoryNot	number	Negation specification of the category name condition		0: Affirmation 1: Negation Default value: 0: Affirmation
Filter[n].Category	string	Category name condition		Up to 32 characters
Filter[n].ApplicationNot	number	Negation specification of the application name condition		0: Affirmation 1: Negation Default value: 0: Affirmation
Filter[n].Application	string	Application name condition		Up to 128 characters
Filter[n].ObjectNot	number	Negation specification of the object name condition		0: Affirmation 1: Negation Default value: 0: Affirmation
Filter[n].Object	string	Object name condition		Up to 128 characters
Filter[n].MessageIDNot	number	Negation specification of the message ID condition		0: Affirmation 1: Negation Default value: 0: Affirmation
Filter[n].MessageID	string	Message ID condition		Up to 128 characters
Filter[n].MessageTextNot	number	Negation specification of the message text condition		0: Affirmation 1: Negation Default value:

Parameter	Type	Description	Omittable	Valid value
				0: Affirmation
Filter[n].MessageText	string	Message text condition		Up to 1024 characters
Filter[n].SeverityNot	number	Negation specification of severity		0: Affirmation 1: Negation Default value: 0: Affirmation
Filter[n].Severity	numeric	Severity condition		"* See severity. (page 437)" Default value: 0
Filter[n].SelPos	object[]	Array of the SelPos conditions		⚠ Caution Up to eight SelPos conditions can be specified. An error occurs if nine or more conditions are specified.
Filter[n].SelPos[m].Type	number	Negation specification		0: Affirmation 1: Negation Default value: 0: Affirmation
Filter[n].SelPos[m].Position	number	Comparison position		1: Origin (in the range of 1 to 1024) Default value: 1: 1st character If 1 is specified in Filter[n].SelPos[m].Type, this item must be specified. Skipped if Filter[n].SelPos[m].Value is not set.
Filter[n].SelPos[m].CompareType	number	Comparison type		0: Skipped if Filter[n].SelPos[m].Value is not set.
Filter[n].SelPos[m].Value	string	Comparison character string		Up to 64 characters Default value: Null: No comparison character string If 1 is specified in Filter[n].SelPos[m].Type, this item must be specified.
Filter[n].SelKey	object[]	Array of the SelKey conditions		⚠ Caution Up to eight SelKey conditions can be specified. An error occurs if nine or more conditions are specified.
Filter[n].SelKey[m].Type	number	Negation specification		0: Affirmation 1: Negation Default value:

Parameter	Type	Description	Omittable	Valid value
				0: Affirmation
Filter[n].SelKey[m].Key	string	Key character string		Up to 64 characters Default value: Null: No key character string If a value is specified in Filter[n].SelKey[m].Value, this item must be specified. If 1 is specified in Filter[n].SelKey[m].Type, this item must be specified.
Filter[n].SelKey[m].CompareType	number	Comparison type		0: Skipped if Filter[n].SelKey[m].Value is not set.
Filter[n].SelKey[m].Value	string	Comparison character string		Up to 64 characters Default value: Null: No comparison character string If a value is specified in Filter[n].SelKey[m].Key, this item must be specified. If 1 is specified in Filter[n].SelKey[m].Type, this item must be specified.
Filter[n].OverWriteSeverity	number	Severity change specification		0 means no change. If this item is omitted, 0 (no change) is assumed. " * See severity. (page 437) " *1
Filter[n].DisplayPosition	number	Display position		Specify a value within the range of 1 to 1024. If this item is omitted, 1 is assumed.
Filter[n].AutoConfirm	number	Automatic reception confirmation specification		0: Not automatically confirmed 1: Automatically confirmed *1
Filter[n].HelpApplication	string	Help application		Up to 256 characters This item is required when Filter[n].HelpDirectory or Filter[n].HelpOption is specified. *1
Filter[n].HelpDirectory	string	Work directory used when the Help application is started		Up to 256 characters Specify this item when the Help application is not a null character string. *1

*1 Severity can be set regardless of the filter type. However, the function is enabled only when the filter type is storage filter. Also, the setting information can be referenced only when the filter type is storage filter.

Parameter	Type	Description	Omittable	Valid value
Filter[n].HelpOption	string	Help application startup option		<p>Up to 128 characters</p> <p>A replacement character string can be specified.</p> <p>Specify this item when the Help application is not a null character string.</p> <p>The replacement character string is valid only when it is used on the console.</p> <p>"* See the replacement character string. (page 438)"</p> <p>*1</p>
Filter[n].Relation1	number	Related information 1		<p>0: Disabled 1: Enabled</p> <p>Default value: 0</p> <p>*1</p>
Filter[n].Relation1Def	object	Definition of related information 1		<p>Specify this item only when related information 1 is 1 (enabled).</p> <p>This item cannot be omitted when related information 1 is 1.</p> <p>*1</p>
Filter[n].Relation1Def.DisplayText	string	Display name		<p>Up to 16 characters</p> <p>This item cannot be omitted when related information 1 is 1.</p>
Filter[n].Relation1Def.Application	string	Application		<p>Up to 256 characters</p> <p>This item cannot be omitted when related information 1 is 1.</p> <p>*1</p>
Filter[n].Relation1Def.Directory	string	Work directory		<p>Up to 256 characters</p> <p>*1</p>
Filter[n].Relation1Def.Option	string	Option		<p>Up to 128 characters</p> <p>A replacement character string can be specified.</p> <p>The replacement character string is valid only when it is used on the console.</p> <p>"* See the replacement character string. (page 438)"</p> <p>*1</p>
Filter[n].Relation2	number	Related information 2		<p>0: Disabled 1: Enabled</p> <p>Default value: 0</p> <p>*1</p>
Filter[n].Relation2Def	object	Definition of related information 2		Specify this item only when related information 2 is 1 (enabled).

Parameter	Type	Description	Omittable	Valid value
				This item cannot be omitted when related information 2 is 1 (enabled). *1
Filter[n].Relation2Def.DisplayText	string	Display name		Up to 16 characters This item cannot be omitted when related information 2 is 1 (enabled). *1
Filter[n].Relation2Def.Application	string	Application		Up to 256 characters This item cannot be omitted when related information 2 is 1 (enabled). *1
Filter[n].Relation2Def.Directory	string	Work directory		Up to 256 characters *1
Filter[n].Relation2Def.Option	string	Option		Up to 128 characters A replacement character string can be specified. The replacement character string is valid only when it is used on the console. " See the replacement character string. (page 438)" *1
Filter[n].Report	number	Report specification		0: Disabled 1: Enabled Default value: 0 *1 *2
Filter[n].PatlitePolicyID	string[]	Patrol lamp policy ID		This item cannot be omitted if report specification is 1 when a filter is added and if the mail policy ID and action policy ID are not specified. 8 digits in hexadecimal Specify the patrol lamp policy ID. If this item is omitted, the patrol lamp policy is not set (registered or updated).

*2 * When the report status is 1 (enabled), PatlitePolicyID, MailPolicyID, or ActionPolicyID must be set. (If any of these IDs is set in advance, it does not need to be specified. Otherwise, one of them must be specified.)

The report setting is as follows.

- While the report can be set even if the report status (Filter.Report) is disabled, the function is not enabled. When the report status is enabled, the preset content is enabled.
- If any of the policy IDs is set, it is considered that the report setting has been changed and the report setting processing (issuance of a report ID and deletion of the old report ID) is performed.
- If any of the policy IDs is set and the other policy IDs are omitted, it is considered that those omitted IDs are not set.

Parameter	Type	Description	Omitable	Valid value
				For the patrol lamp policy ID, specify the one acquired in "Getting the report information (page 99)". *1 *2
Filter[n].MailPolicyID	string[]	Mail policy ID		This item cannot be omitted if report specification is 1 when a filter is added and if the patrol lamp policy ID and action policy ID are not specified. 8 digits in hexadecimal Specify the mail policy ID. If this item is omitted (or a null character string is specified), the mail policy is not set (registered or updated). For the mail policy ID, specify the one acquired in "Getting the report information (page 99)". Only one ID can be specified. *1 *2
Filter[n].ActionPolicyID	string[]	Action policy ID		This item cannot be omitted if report specification is 1 when a filter is added and if the patrol lamp policy ID and mail policy ID are not specified. 8 digits in hexadecimal Specify the action policy ID. If this item is omitted (or a null character string is specified), the action policy is not set (registered or updated). For the action policy ID, specify the one acquired in "Getting the report information (page 99)". Only one ID can be specified. *1 *2
Filter[n].ReportAutoConfirm	number	Automatic confirmation upon report completion		0: Not automatically confirmed 1: Automatically confirmed Default value: 0 *1
Filter[n].Option1Def	object	Option definition 1		*1
Filter[n].Option1Def.Title	string	Display title		Up to 32 characters

Parameter	Type	Description	Omittable	Valid value
				This item is required when the display character string of option definition 1 is set. *1
Filter[n].Option1Def.ViewType	number	Display type		0: HTML view 1: Text *1
Filter[n].Option1Def.Text	string	Display character string		Up to 1024 characters *1
Filter[n].Option2Def	object	Option definition 2		*1
Filter[n].Option2Def.Title	string	Display title		Up to 32 characters This item is required when the display character string of option definition 2 is set. *1
Filter[n].Option2Def.ViewType	number	Display type		0: HTML view 1: Text *1
Filter[n].Option2Def.Text	string	Display character string		Up to 1024 characters *1
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

* Even if 1: Deletion filter is set for the filter type, the display and option definitions (message suppression function) can be set. However, since deleted messages become the target, the function is not enabled.

* If the same node ID is specified multiple times, an error does not occur and the latest registered setting takes effect.

* Skipped if you specify a nonexistent filter ID or a filter ID that is not under the category whose filter is edited.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The filter definition of the category has been successfully edited.
400	Bad Request	When 9 or more conditions are specified in Filter[n].SelPos[m] When 9 or more conditions are specified in Filter[n].SelKey[m] When 2 or more conditions are specified in Filter[n].MailPolicyID

HTTP status code	Meaning	Description
		<p>When 2 or more conditions are specified in Filter[n].ActionPolicyID</p> <p>When only either Filter[n].SelKey[m].Key or Filter[n].SelKey[m].Value is specified</p> <p>When Filter[n].HelpDirectory or Filter[n].HelpOption is specified but Filter[n].HelpApplication is not specified</p> <p>When the report ID is not set and "1: Enabled" is specified in Filter[n].Report but none of the policy IDs (Filter[n].PatlitePolicyID, Filter[n].MailPolicyID, and Filter[n].ActionPolicyID) is specified</p> <p>When Filter[n].Option1Def.Text is specified but Filter[n].Option1Def.Title is not specified</p> <p>When Filter[n].Option2Def.Text is specified but Filter[n].Option2Def.Title is not specified</p> <p>When "1: Negation" is set in each negation condition but the corresponding comparison character string or other necessary item is omitted</p>
403	Forbidden	When the overwriting of the monitoring setting is prohibited
404	Not Found	When the node ID of the specified category does not exist The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Filter	object[]	Array of filter information	-
Filter[n].FilterID	string	Filter ID	
Filter[n].CategoryID	string	Category ID	
Filter[n].FilterName	string	Filter name	Up to 256 characters
Filter[n].FilterType	number	Type of the filter	0: Storage filter 1: Deletion filter
Filter[n].NodeNot	number	Negation specification of the node name condition	0: Affirmation 1: Negation
Filter[n].Node	string	Node name condition	Up to 256 characters
Filter[n].CategoryNot	number	Negation specification of the category name condition	0: Affirmation 1: Negation
Filter[n].Category	string	Category name condition	Up to 32 characters

Parameter	Type	Description	Valid value
Filter[n].ApplicationNot	number	Negation specification of the application name condition	0: Affirmation 1: Negation
Filter[n].Application	string	Application name condition	Up to 128 characters
Filter[n].ObjectNot	number	Negation specification of the object name condition	0: Affirmation 1: Negation
Filter[n].Object	string	Object name condition	Up to 128 characters
Filter[n].MessageIDNot	number	Negation specification of the message ID condition	0: Affirmation 1: Negation
Filter[n].MessageID	string	Message ID condition	Up to 128 characters
Filter[n].MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation
Filter[n].MessageText	string	Message text condition	Up to 1024 characters
Filter[n].SeverityNot	number	Negation specification of severity	0: Affirmation 1: Negation
Filter[n].Severity	number	Severity condition	If this item is not specified, 0 is assumed.
Filter[n].SelPos	object[]	Array of the SelPos conditions	
Filter[n].SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelPos[m].Position	number	Comparison position	1: Origin
Filter[n].SelPos[m].CompareType	number	Comparison type	0: = 1: <> 2: >= 3: > 4: <= 5: <
Filter[n].SelPos[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].SelKey	object[]	Array of the SelKey conditions	
Filter[n].SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelKey[m].Key	string	Key character string	Up to 64 characters
Filter[n].SelKey[m].CompareType	number	Comparison type	0: = 1: <> 2: >= 3: > 4: <= 5: <
Filter[n].SelKey[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].OverWriteSeverity	number	Severity change specification	If this item is not specified, 0 is assumed. * Output only when the filter type is storage filter.

Parameter	Type	Description	Valid value
Filter[n].DisplayPosition	number	Display position	1: Origin * Output only when the filter type is storage filter.
Filter[n].AutoConfirm	number	Automatic reception confirmation specification	0: Not automatically confirmed 1: Automatically confirmed * Output only when the filter type is storage filter.
Filter[n].HelpApplication	string	Help application	Up to 256 characters * Output only when the filter type is storage filter.
Filter[n].HelpDirectory	string	Work directory used when the Help application is started	Up to 256 characters * Output only when the filter type is storage filter.
Filter[n].HelpOption	string	Help application startup option	Up to 128 characters * Output only when the filter type is storage filter.
Filter[n].Relation1	number	Related information 1	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].Relation1Def	object	Definition of related information 1	* Output only when the filter type is storage filter.
Filter[n].Relation1Def.DisplayText	string	Display name	Up to 16 characters
Filter[n].Relation1Def.Application	string	Application	Up to 256 characters
Filter[n].Relation1Def.Directory	string	Work directory	Up to 256 characters
Filter[n].Relation1Def.Option	string	Option	Up to 128 characters
Filter[n].Relation2	number	Related information 2	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].Relation2Def	object	Definition of related information 2	* Output only when the filter type is storage filter.
Filter[n].Relation2Def.DisplayText	string	Display name	Up to 16 characters
Filter[n].Relation2Def.Application	string	Application	Up to 256 characters
Filter[n].Relation2Def.Directory	string	Work directory	Up to 256 characters
Filter[n].Relation2Def.Option	string	Option	Up to 128 characters

Parameter	Type	Description	Valid value
Filter[n].Recovery	number	Recovery status	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].RecoveryID	string	Recovery ID	* Output only when the filter type is storage filter.
Filter[n].RecoveryAutoConfirm	number	Specification of automatic deletion upon normal recovery end	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].Report	number	Report status	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].ReportID	string	Report ID	* Output only when the filter type is storage filter.
Filter[n].ReportAutoConfirm	number	Specification of automatic deletion upon normal report end	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].HelpDesk	number	Help desk status	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].HelpDeskID	string	Help desk ID	* Output only when the filter type is storage filter.
Filter[n].HelpDeskAutoConfirm	number	Specification of automatic deletion upon normal Help desk end	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].HelpDeskManual	number	Specification of manual Help desk execution	0: Disabled 1: Enabled * Output only when the filter type is storage filter.
Filter[n].Option1Def	object	Option definition 1	* Output only when the filter type is storage filter.
Filter[n].Option1Def.Title	string	Display title	Up to 32 characters
Filter[n].Option1Def.ViewType	number	Display type	0: HTML view 1: Text
Filter[n].Option1Def.Text	string	Display character string	Up to 1024 characters
Filter[n].Option2Def	object	Option definition 2	* Output only when the filter type is storage filter.
Filter[n].Option2Def.Title	string	Display title	Up to 32 characters
Filter[n].Option2Def.ViewType	number	Display type	0: HTML view 1: Text
Filter[n].Option2Def.Text	string	Display character string	Up to 1024 characters

Parameter	Type	Description	Valid value
Manager	object	Manager object	-
Manager.Name	string	Manager name	Manager name MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

- * If the default values of the SelPos conditions (Filter[n].SelPos[m].Type, Filter[n].SelPos[m].Position, Filter[n].SelPos[m].CompareType, and Filter[n].SelPos[m].Value) remain unchanged, the array of the SelPos conditions (Filter[n].SelPos) is not output.
- * If the default values of the SelKey conditions (Filter[n].SelKey[m].Type, Filter[n].SelKey[m].Key, Filter[n].SelKey[m].CompareType, and Filter[n].SelKey[m].Value) remain unchanged, the array of the SelKey conditions (Filter[n].SelKey) is not output.

7. Change history

- X-FW-API-Version : 1.1
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/syslog/filter/AgentHost/07353998 HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, */*
Date: Mon, 16 May 2016 02:01:59 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:dJZ49+O2eCHbYLPq8bvnWo9hSd0TZjowCbQCNq2jXFI=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 107

{
  "Filter" : [ {
    "Name" : "Filter01",
    "FilterType" : 1,
    "MessageText" : "Normal"
  }, {
    "NodeID" : "073536ee",
    "NotModify" : 0
  } ]
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
```

```

X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 2105
Date: Mon, 16 May 2016 02:29:50 GMT

{
  "Filter": [ {
    "SelKey": [ {
      "CompareType": 0,
      "Type": 0,
      "Key": "",
      "Value": ""
    }, {
      "CompareType": 0,
      "Type": 0,
      "Key": "",
      "Value": ""
    }, {
      "CompareType": 0,
      "Type": 0,
      "Key": "",
      "Value": ""
    }, {
      "CompareType": 0,
      "Type": 0,
      "Key": "",
      "Value": ""
    }, {
      "CompareType": 0,
      "Type": 0,
      "Key": "",
      "Value": ""
    }, {
      "CompareType": 0,
      "Type": 0,
      "Key": "",
      "Value": ""
    }, {
      "CompareType": 0,
      "Type": 0,
      "Key": "",
      "Value": ""
    }, {
      "CompareType": 0,
      "Type": 0,
      "Key": "",
      "Value": ""
    }, {
      "CompareType": 0,
      "Type": 0,
      "Key": "",
      "Value": ""
    }, {
      "CompareType": 0,
      "Type": 0,
      "Key": "",
      "Value": ""
    } ],
    "SelPos": [ {
      "CompareType": 0,
      "Type": 0,
      "Value": "",
      "Position": 1
    }, {
      "CompareType": 0,
      "Type": 0,
      "Value": ""
    }
  ]
}

```

```

        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, [
        {
            "Name" : "Filter01",
            "MessageTextNot" : 0,
            "NodeID" : "0739309e",
            "FilterType" : 1,
            "MessageText" : "Normal"
        }, {
            "MessageIgnore" : 0,
            "Node" : "AgentHost",
            "Application" : "0000",
            "MessageIgnoreInterval" : 10,
            "SelKey" : [
                {
                    "CompareType" : 0,
                    "Type" : 0,
                    "Key" : "",
                    "Value" : ""
                }, {
                    "CompareType" : 0,
                    "Type" : 0,
                    "Key" : "",
                    "Value" : ""
                }, {
                    "CompareType" : 0,
                    "Type" : 0,
                    "Key" : "",
                    "Value" : ""
                }, {
                    "CompareType" : 0,
                    "Type" : 0,
                    "Key" : "",
                    "Value" : ""
                }
            ]
        }
    ]
}

```

```

    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, [
    "MessageIgnorePassDelete" : 0,
    "Severity" : 264,
    "MessageIgnoreReset" : 0,
    "SelPos" : [ {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }
]
}

```

```

        },
        {
            "CompareType" : 0,
            "Type" : 0,
            "Value" : "",
            "Position" : 1
        },
        {
            "CompareType" : 0,
            "Type" : 0,
            "Value" : "",
            "Position" : 1
        }],
        "Name" : "Default Filter",
        "MessageID" : "0000",
        "MessageTextNot" : 0,
        "NodeID" : "073536ee",
        "Object" : "0000",
        "FilterType" : 0,
        "Category" : "messages",
        "MessageText" : ""
    ],
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}

```

4.1.12 Starting and stopping monitoring (with categories specified)

1. Process overview

Start and stop the monitoring of the categories under a specified business node.

If you specify the root or a group in a request, only all the categories under the root or group become the target and the node IDs of the categories for which the start or stop processing is actually performed are reported.

2. HTTP method

PUT

3. URL

/umf/fw/business/category/(active | hold)

URL	Description
/umf/fw/business/category/active	Start the monitoring of categories.
/umf/fw/business/category/hold	Stop the monitoring of categories.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
ID	string	Node ID of the start or stop target	No	Specify the node ID of the root, group, or category. A node type other than root, group, or category cannot be specified.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring has been successfully started or stopped.
404	Not Found	When the node ID of the specified start or stop target does not exist The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string[]	Node ID	The node IDs of the categories for which the monitoring has actually been started or stopped are listed. * The IDs of the already started or stopped categories are not included.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Manager name MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

Example) Starting the monitoring of the "Windows service monitoring" category of manager "MoM1"

- a. Execute the acquisition of the business tree configuration to check the status and management ID of the "Windows service monitoring" category.

For details, see "[Getting the business tree configuration \(page 15\)](#)".

- b. Start the monitoring of categories.
Specify the following parameters and execute the request.

- In URL, specify /umf/fw/business/category/active.
- In Request Json, specify the management ID of the "Windows service monitoring" category acquired by getting the business tree configuration.

[Request]

```
PUT /umf/fw/business/category/active HTTP/1.1
Content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 06:10:11 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:/:gz1WdhASdySpk3/OgOKczOQ+pYewgOhHLgX9007is8=
Host: 192.168.21.4:12080
Content-Length: 52

{
    "ID": "45ed3512",
    "Manager": {
        "Name": "localhost"
    }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 98
Date: Wed, 16 Mar 2016 06:06:16 GMT

{
    "ID": [
        "45ed3512"
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.2 Topology

4.2.1 Getting the topology tree configuration

1. Process overview

Get the list of the managed agents.

2. HTTP method

GET

3. URL

/umf/fw/topology/agent/**NodeID**?ManagerName=**ManagerName**

In **NodeID**, specify the management ID of the group whose information you want to get.

If you omit **NodeID**, the tree information under the root node is output.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Getting the topology tree configuration succeeded.
206	Partial Content	Part of the topology tree configuration failed to be acquired.
400	Bad Request	When the management ID of a node other than a group is specified as the management ID of the target group
404	Not Found	The management ID of the specified group does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Topology	object[]	Array of topology tree information	-
Topology[n].TreeNode	object	Topology tree information	-
Topology[n].TreeNode.No deID	string	Node ID	-

Parameter	Type	Description	Valid value	
			Setting value	Description
Topology[n].TreeNode.NodeType	string	Node type	root group unknownGroup agent unknownAgent	Root Group Unregistered agent group Agent Unregistered agent
Topology[n].TreeNode.DisplayName	string	Agent name	Up to 64 characters	
Topology[n].TreeNode.IconName	string	Icon name	Up to 256 characters * Output only when the node type is other than "unknownGroup" or "unknownAgent"	
Topology[n].TreeNode.IPAddress	string	IP address	Up to 15 characters * Output only when the node type is "agent" or "unknownAgent"	
Topology[n].TreeNode.Probe	number	Probe agent identification	0: Ordinary agent 1: Probe agent * Output only when the node type is "agent" or "unknownAgent"	
Topology[n].TreeNode.RemoteAgent	number	Remote agent identification	0: Ordinary agent 1: Remote host * Output only when the node type is "agent" or "unknownAgent"	
Topology[n].TreeNode.VAplianceAgent	number	Virtual appliance agent identification	0: Ordinary agent 1: Virtual appliance agent * Output only when the node type is "agent" or "unknownAgent"	
Topology[n].TreeNode.OSType	number	OS type	1: OS whose system name includes "Windows" 2: OS whose system name includes "Linux" 3: OS whose system name includes "HP-UX" 4: OS whose system name includes "Sun-Blade" 8: OS whose system name includes "AIX" Value other than the above: Node not supported by WebAPI	

Parameter	Type	Description	Valid value
			<p>* Output only when the node type is "agent" or "unknownAgent"</p> <p>* In the case of a remote agent, the OS type may differ from that of the actual OS.</p>
Topology[n].TreeNode.OSName	string	OS name	<p>Up to 127 characters</p> <p>* Output only when the node type is "agent" or "unknownAgent"</p>
Topology[n].TreeNode.OSSubName	string	OS subname	<p>Up to 127 characters</p> <p>* Output only when the node type is "agent" or "unknownAgent"</p>
Topology[n].TreeNode.OSMajorVersion	number	OS major version	<p>* Output only when the node type is "agent" or "unknownAgent"</p>
Topology[n].TreeNode.OSMinorVersion	number	OS minor version	<p>* Output only when the node type is "agent" or "unknownAgent"</p>
Topology[n].TreeNode.Schedule	number	Schedule definition status	<p>0: Disabled 1: Enabled</p> <p>* Output only when the node type is other than "unknownGroup" or "unknownAgent"</p>
Topology[n].TreeNode.ScheduleID	string	Schedule ID	<p>* Output only when the node type is other than "unknownGroup" or "unknownAgent"</p> <p>Caution</p> <p>This parameter is to be deleted. Not available</p>
Topology[n].TreeNode.ScheduleConfigID	string	Schedule definition ID	<p>* Output only when the node type is other than "unknownGroup" or "unknownAgent"</p>
Topology[n].TreeNode.ScheduleStatus	number	Schedule status	<p>0: Inactive 1: Active</p> <p>* Output only when the schedule definition status is "Enabled".</p>
Topology[n].TreeNode.ActiveStatus	number	Status	<p>0: Stopped 1: Monitoring</p> <p>* Output only when the node type is "agent" or "unknownAgent"</p>

Parameter	Type	Description	Valid value
Topology[n].TreeNode.Severity	number	Severity	Severity * Output only when the node type is "agent" or "unknownAgent"
Topology[n].TreeNode.ChildNode[m]	object[]	Array of child nodes	* Output only when the node type is "root", "group", or "unknownGroup". The same configuration as the above TreeNode object is applied as a recursive configuration.
Topology[n].Manager	object	Manager object	-
Topology[n].Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Topology[n].Manager.ErrorMessage	string	Error messages	-
Topology[n].Manager.Status	number	Communication error code	-
Topology[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.1
 - Added Topology[n].TreeNode.ScheduleConfigID.
 - Added Topology[n].TreeNode.Severity.
 - Corrected the valid values of Topology[n].TreeNode.OSType.
- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/topology/agent HTTP/1.1
x-fw-api-version: 1.0
Date: Tue, 15 Mar 2016 10:20:25 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:4jCHuXWyF4muk509+s7TIMcX4RmxNdZCkoeJarUu6fo=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
```

```

Content-Length: 1230
Date: Tue, 15 Mar 2016 10:16:29 GMT

{
    "Topology": [
        {
            "Manager": {
                "ErrorMessage": "",
                "Name": "localhost",
                "Status": 200,
                "StatusCode": 200
            },
            "TreeNode": {
                "ChildNode": [
                    {
                        "ChildNode": [
                            {
                                "ActiveStatus": 1,
                                "DisplayName": "WIN2008R2-M",
                                "IPAddress": "192.168.17.55",
                                "NodeID": "06d6df78",
                                "NodeType": "unknownAgent",
                                "OSMajorVersion": 6,
                                "OSMinorVersion": 1,
                                "OSName": "Windows Server 2008 R2 Standard",
                                "OSSubName": "Service Pack 1",
                                "OSType": 1,
                                "Probe": 0,
                                "RemoteAgent": 0,
                                "VApplianceAgent": 0
                            }
                        ],
                        "DisplayName": "Unregistered Host",
                        "NodeID": "00000001",
                        "NodeType": "unknownGroup"
                    },
                    {
                        "ActiveStatus": 1,
                        "DisplayName": "MOM1",
                        "IPAddress": "192.168.21.4",
                        "IconName": "",
                        "NodeID": "06d0081b",
                        "NodeType": "agent",
                        "OSMajorVersion": 6,
                        "OSMinorVersion": 2,
                        "OSName": "Windows Server 2012 Datacenter",
                        "OSSubName": "",
                        "OSType": 1,
                        "Probe": 0,
                        "RemoteAgent": 0,
                        "Schedule": 0,
                        "ScheduleConfigID": "",
                        "ScheduleID": "",
                        "Severity": 278,
                        "VApplianceAgent": 0
                    },
                    {

```

```

        "ActiveStatus": 1,
        "DisplayName": "AgentHost",
        "IPAddress": "192.168.21.4",
        "IconName": "",
        "NodeID": "06e7e015",
        "NodeType": "agent",
        "OSMajorVersion": 6,
        "OSMinorVersion": 2,
        "OSName": "Windows Server 2012 Datacenter",
        "OSSubName": "",
        "OSType": 1,
        "Probe": 0,
        "RemoteAgent": 0,
        "Schedule": 0,
        "ScheduleConfigID": "",
        "ScheduleID": "",
        "Severity": 278,
        "VApplianceAgent": 0
    }
],
"DisplayName": "TopologyService",
"IconName": "",
"NodeID": "00000000",
"NodeType": "root",
"Schedule": 0,
"ScheduleConfigID": "",
"ScheduleID": ""
}
]
}

```

4.2.2 Getting topology node information

1. Process overview

Get the node information of a specified group or agent.

2. HTTP method

GET

3. URL

/umf/fw/topology/agent/node/**NodeID**?ManagerName=**ManagerName**

In **NodeID**, specify the node ID whose information you want to get.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Getting topology node information succeeded.
404	Not Found	The specified group or agent does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value												
(Root)	object	Root object	-												
TreeNode	object	Topology tree information	-												
TreeNode.NodeID	string	Node ID	-												
TreeNode.NodeType	string	Node type	<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>root</td><td>Root</td></tr> <tr> <td>group</td><td>Group</td></tr> <tr> <td>unknownGroup</td><td>Unregistered agent group</td></tr> <tr> <td>agent</td><td>Agent</td></tr> <tr> <td>unknownAgent</td><td>Unregistered agent</td></tr> </tbody> </table>	Setting value	Description	root	Root	group	Group	unknownGroup	Unregistered agent group	agent	Agent	unknownAgent	Unregistered agent
Setting value	Description														
root	Root														
group	Group														
unknownGroup	Unregistered agent group														
agent	Agent														
unknownAgent	Unregistered agent														
TreeNode.DisplayName	string	Agent name	Up to 64 characters												
TreeNode.IconName	string	Icon name	Up to 256 characters * Output only when the node type is other than "unknownGroup" or "unknownAgent"												
TreeNode.IPAddress	string	IP address	Up to 15 characters * Output only when the node type is "agent" or "unknownAgent"												
TreeNode.Probe	number	Probe agent identification	0: Ordinary agent 1: Probe agent * Output only when the node type is "agent" or "unknownAgent"												
TreeNode.RemoteAgent	number	Remote agent identification	0: Ordinary agent 1: Remote (AG-less) agent * Output only when the node type is "agent" or "unknownAgent"												
TreeNode.VApplianceAgent	number	Virtual appliance agent identification	0: Ordinary agent 1: Virtual appliance agent * Output only when the node type is "agent" or "unknownAgent"												

Parameter	Type	Description	Valid value
TreeNode.OSType	number	OS type	<p>1: OS whose system name includes "Windows" 2: OS whose system name includes "Linux" 3: OS whose system name includes "HP-UX" 4: OS whose system name includes "Sun-Blade" 8: OS whose system name includes "AIX" Value other than the above: Node not supported by WebAPI</p> <p>* Output only when the node type is "agent" or "unknownAgent"</p> <p>* In the case of a remote agent, the OS type may differ from that of the actual OS.</p>
TreeNode.OSName	string	OS name	<p>Up to 127 characters</p> <p>* Output only when the node type is "agent" or "unknownAgent"</p>
TreeNode.OSSubName	string	OS subname	<p>Up to 127 characters</p> <p>* Output only when the node type is "agent" or "unknownAgent"</p>
TreeNode.OSMajorVersion	number	OS major version	<p>* Output only when the node type is "agent" or "unknownAgent"</p>
TreeNode.OSMinorVersion	number	OS minor version	<p>* Output only when the node type is "agent" or "unknownAgent"</p>
TreeNode.Schedule	number	Schedule definition status	<p>0: Disabled 1: Enabled</p> <p>* Output only when the node type is other than "unknownGroup" or "unknownAgent"</p>
TreeNode.ScheduleID	string	Schedule ID	<p>* Output only when the node type is other than "unknownGroup" or "unknownAgent"</p> <p>Caution</p> <p>This parameter is to be deleted. Not available</p>
TreeNode.ScheduleConfigID	string	Schedule definition ID	<p>* Output only when the node type is other than "unknownGroup" or "unknownAgent"</p>
TreeNode.ScheduleStatus	number	Schedule status	<p>0: Inactive 1: Active</p>

Parameter	Type	Description	Valid value
			* Output only when the schedule definition status is "Enabled".
TreeNode.ActiveStatus	number	Status	0: Stopped 1: Monitoring * Output only when the node type is "agent" or "unknownAgent"
TreeNode.Severity	number	Severity	Severity * Output only when the node type is "agent" or "unknownAgent"
TreeNode.ChildGroup	object[]	Array of child group information	* Output only when the node type is "root" or "group".
TreeNode.ChildGroup[n].ID	string	Node ID of the child group	* Output only when the node type is "root" or "group".
TreeNode.ChildGroup[n].DisplayName	string	Display name of the child group	Up to 64 characters * Output only when the node type is "root" or "group".
TreeNode.ChildAgent	object[]	Array of child agent information	* Output only when the node type is "root", "group", or "unknownGroup".
TreeNode.ChildAgent[n].ID	string	Node ID of the child agent	* Output only when the node type is "root", "group", or "unknownGroup".
TreeNode.ChildAgent[n].DisplayName	string	Display name of the child agent	Up to 64 characters * Output only when the node type is "root", "group", or "unknownGroup".
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.1
 - Added TreeNode.ScheduleConfigID.
 - Added TreeNode.Severity.
 - Corrected the valid values of TreeNode.OType.
- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/topology/agent/node/06e7e015 HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 06:32:53 GMT
Authorization: SharedKeyLite 16ubpcPb793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:hI5jN615CHxtxMPIlu7bUE/FBPS82YLmENNxYGfxm+Y=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 397
Date: Wed, 16 Mar 2016 06:28:57 GMT

{
    "TreeNode": {
        "ActiveStatus": 1,
        "DisplayName": "AgentHost",
        "IPAddress": "192.168.21.4",
        "IconName": "",
        "NodeID": "06e7e015",
        "NodeType": "agent",
        "OSMajorVersion": 6,
        "OSMinorVersion": 2,
        "OSName": "Windows Server 2012 Datacenter",
        "OSSubName": "",
        "OSType": 1,
        "Probe": 0,
        "RemoteAgent": 0,
        "Schedule": 0,
        "ScheduleConfigID": "",
        "ScheduleID": "",
        "Severity": 278,
        "VApplianceAgent": 0
    },
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.2.3 Starting/Stopping monitoring (Specifying the agents)

1. Process overview

Start/Stop monitoring the agents under the specified topology nodes. If the root or group is specified on requesting, all the agents under it are monitored, and the node ID of the agent for which the monitoring process is actually started or stopped is reported.

2. HTTP method

PUT

3. URL

/umf/fw/topology/agent/(active | hold)

URL	Description
/umf/fw/topology/agent/active	Start agent monitoring.
/umf/fw/topology/agent/hold	Stop agent monitoring.

4. Parameter

Parameter	Type	Description	Optional attribute	Valid value
(Root)	object	Root object	No	-
ID	string	Target node ID		Specify the node IDs of the root, group, and agents You cannot omit ID and AgentName at the same time. Specify either ID or AgentName. If you specify both, AgentName is used.
AgentName	string	Agent name		Specify the agent name You cannot omit ID and AgentName at the same time. Specify either ID or AgentName. If you specify both, AgentName is used.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring process has been started or stopped successfully.
404	Not Found	The specified node does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-

Parameter	Type	Description	Valid value
ID	string[]	* Node ID * Node IDs of the agents for which the monitoring process is actually started or stopped are enumerated. * The node IDs of the agents for which the monitoring process had already been started or stopped are not included.	
Manager	object	Manager object	-
Manager.Name	string	Manager name	Manager name MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

Example: Start monitoring the "AgentHost" node of the manager "MoM1".

- a. Obtain the topology tree configuration, and confirm the status of the "AgentHost" node and management ID.

For details, see "[Obtaining the topology tree configuration \(page 73\)](#)".

- b. Start monitoring the nodes.
Specify the following parameters, and execute the request.
 - Specify /umf/fw/topology/agent/active as the URL.
 - Specify the management ID of the "AgentHost" node obtained when obtaining the topology tree configuration in the request JSON.

[Request]

```
PUT /umf/fw/topology/agent/active HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 06:44:16 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:cJeTiOjv75G801Hv1RxrjufXU+YvW+L7cn6Ezh/6Gkg=
Host: 192.168.21.4:12080
Content-Length: 52

{
  "ID": "06e7e015",
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 98
Date: Wed, 16 Mar 2016 06:40:20 GMT

{
    "ID": [
        "06e7e015"
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}

```

4.2.4 Adding a host group

1. Process overview

Add a group to the node ID specified in a request.

When service operation monitoring is used, a host group cannot be created under a probe group.

2. HTTP method

POST

3. URL

/umf/fw/topology/group/**NodeID**

In **NodeID**, specify the parent node ID to which to add a group.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

You can register an already existing group name.

4. Parameter

Parameter	Type	Description	O m i tta bl e	Valid value
(Root)	object	Root object	No	-
DisplayName	string	Name of the added monitoring group	No	Up to 64 characters
Schedule	number	Schedule setting		0: Do not set 1: Set * An error occurs if a

Parameter	Type	Description	Omitable	Valid value
				nonexistent ScheduleConfigID is specified when the schedule is set. Default value: 0: Do not set
ScheduleConfigID	string	Schedule definition ID		8 digits in hexadecimal
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

* You can register an already existing group name.

For the schedule definition ID, specify the one acquired in "[Getting the schedule list \(page 329\)](#)".

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The group has been successfully added.
404	Not Found	The specified manager does not exist. The specified agent does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string	Management ID of the added monitoring group	8 digits in hexadecimal
DisplayName	string	Name of the added monitoring group	Up to 64 characters
Schedule	number	Schedule setting	0: Do not set 1: Set
ScheduleConfigID	string	Schedule definition ID	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0

- Newly added.

8. JSON example

[Request]

```
POST /umf/fw/topology/group/00000000 HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, */*
Date: Fri, 13 May 2016 02:18:45 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:zrs9XSanG7XwOpBBWWSqj4pRbZubfx3406he5C3jY38=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 75

{
    "DisplayName": "GroupX",
    "Schedule": 1,
    "ScheduleConfigID": "57353d02"
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 162
Date: Fri, 13 May 2016 02:35:20 GMT

{
    "Schedule" : 1,
    "ScheduleConfigID" : "57353d02",
    "ID" : "57353d68",
    "DisplayName" : "GroupX",
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}
```

4.2.5 Deleting the host group

1. Process overview

Delete the group of the node ID specified on requesting.
Perform this work after deleting all the agents under the group.

2. HTTP method

DELETE

3. URL

/umf/fw/topology/group/**NodeID**?ManagerName=**ManagerName**

Specify the node ID (group) of the group to be deleted in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The group has been deleted successfully.
403	Forbidden	The agent exists under the specified group.
404	Not Found	The specified host does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string	Node ID of the deleted group	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
DELETE /umf/fw/topology/group/57353d68 HTTP/1.1
Accept: application/json, */*
Date: Fri, 13 May 2016 02:41:09 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4W0cJyLcbTp28IylwP4Q
hs=:lpX9QD43Pi7JDRuuDoywjPUtHPP57d+cM0Kfs91kxYw=
```

```
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 96
Date: Fri, 13 May 2016 02:57:44 GMT

{
    "ID" : "57353d68",
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}
```

4.2.6 Updating the host group

1. Process overview

Update the group of the node ID specified on requesting.

2. HTTP method

PUT

3. URL

/umf/fw/topology/group/**NodeID**

Node ID (group) to be updated in **NodeID**

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

The same name as the existing group name can be registered.

4. Parameter

Parameter	Type	Description	O m i tta bl e	Valid value
(Root)	object	Root object	No	-

Parameter	Type	Description	Omitable	Valid value
DisplayName	string	Updated monitoring group name		Up to 64 characters Specifying blank characters is not allowed.
Schedule	number	Schedule setting		0: Not set 1: Set
ScheduleConfigID	string	Schedule definition ID		* If "1: Setting" is specified to the schedule setting (Schedule) and if the schedule definition ID (ScheduleConfigID) is not set to the existing node, the schedule definition ID (ScheduleConfigID) must be specified. 8 digits in hexadecimal
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The group has been updated successfully.
404	Not Found	The specified host does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string	Management ID of the renewed monitoring group	8 digits in hexadecimal
DisplayName	string	Renewed monitoring group name	Up to 64 characters
ScheduleConfigID	string	Schedule definition ID	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
PUT /umf/fw/topology/group/57353d68 HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, */*
Date: Fri, 13 May 2016 02:33:11 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:ynj3aF+obTeN49E3DxoQVvPndlbtAwgsDw/eu1D+7iM=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 69

{
  "DisplayName" : "GroupX",
  "Schedule" : 0,
  "ScheduleConfigID" : null
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 162
Date: Fri, 13 May 2016 02:49:46 GMT

{
  "Schedule" : 0,
  "ScheduleConfigID" : "57353d02",
  "ID" : "57353d68",
  "DisplayName" : "GroupX",
  "Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
  }
}
```

4.2.7 Moving an agent

1. Process overview

Move the agent specified in a request under the node having the specified node ID.

When service operation monitoring is used:

- A probe host (ProbeAgent) cannot be moved from a probe group.
- An agent other than a probe host cannot be moved under a probe group.

2. HTTP method

POST

3. URL

/umf/fw/topology/agent/move

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
ID	string	Target node ID		Specify the node ID of the agent. You cannot omit ID and AgentName at the same time. Specify either ID or AgentName. If you specify both, AgentName is used.
AgentName	string	Agent name		Specify the agent name. You cannot omit ID and AgentName at the same time. Specify either ID or AgentName. If you specify both, AgentName is used.
DestinationID	string	Node ID of the move destination	No	-
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Getting agent node information succeeded.
404	Not Found	The specified manager does not exist. The specified agent does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string	Node ID of the move target	-
DestinationID	string	Node ID of the move destination	-
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/topology/agent/move HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, /*
Date: Fri, 13 May 2016 02:46:24 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:pJE1v8bMBgYiw4iSleYM83dqPPnk2aH82Da6l0KRgjU=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 49

{
  "ID" : "07353708",
  "DestinationID" : "57353d68"
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 123
Date: Fri, 13 May 2016 03:02:59 GMT

{
  "ID" : "07353708",
```

```

"DestinationID" : "57353d68",
"Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
}
}

```

4.2.8 Deleting the agents

1. Process overview

Delete the agents specified on request.

Caution

If an agent that is not stopped is specified as the deletion target in this API, an error occurs.

2. HTTP method

POST

3. URL

/umf/fw/topology/agent/delete

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

Parameter	Type	Description	Omittable	Valid value
(Root)	object	Root object	No	-
ID	string	Target node ID		<p>Specifying the node IDs of the agents</p> <p>You cannot omit ID and AgentName at the same time. Specify either ID or AgentName.</p> <p>If you specify both, AgentName is used.</p>
AgentName	string	Agent name		<p>Specifying the agent name</p> <p>You cannot omit ID and AgentName at the same time. Specify either ID or AgentName.</p> <p>If you specify both, AgentName is used.</p>
Mode	number	Deletion mode	No	<p>0: Deleting agent nodes only (corresponding to [Delete] in the right-click menu of the topology view agent)</p> <p>1: Deleting agent setting data entirely (corresponding to the AgentDelete command)</p>

Parameter	Type	Description	Omittable	Valid value
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The agent node has been deleted successfully.
403	Forbidden	The agent to be deleted is not stopped.
404	Not Found	The specified agent does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
ID	string	Node ID of the deleted agent	-
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/topology/agent/delete HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, /*
Date: Fri, 13 May 2016 03:24:39 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:Vf3wuMwh7wAI5sW4AqsCJXdbuKYyzH7yqC1uBlCMJ/E=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
```

```
Connection: keep-alive
Content-Length: 31

{
    "ID" : "07353708",
    "Mode" : 0
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 96
Date: Fri, 13 May 2016 03:51:11 GMT

{
    "ID" : "07353708",
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}
```

4.2.9 Updating the agents

1. Process overview

Update the agents specified on requesting.

2. HTTP method

POST

3. URL

/umf/fw/topology/agent/update

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

Parameter	Type	Description	O m i tta bl e	Valid value
(Root)	object	Root object	No	-
ID	string	Target node ID		Specifying the node IDs of the agents

Parameter	Type	Description	Omitable	Valid value
				You cannot omit ID and AgentName at the same time. Specify either ID or AgentName. If you specify both, AgentName is used.
AgentName	string	Agent name		Specifying the agent name You cannot omit ID and AgentName at the same time. Specify either ID or AgentName. If you specify both, AgentName is used.
Schedule	number	Schedule setting		0: Not set 1: Set * If ScheduleConfigID that does not exist when setting the schedule is specified, an error occurs.
ScheduleConfigID	string	Schedule definition ID (eight-digit hexadecimal character)		* If "1: Set" is specified to the schedule setting (Schedule) and if the schedule definition ID (ScheduleConfigID) is not set to the existing node, the schedule definition ID (ScheduleConfigID) must be specified.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

* If the contents of the agent information (Schedule, ScheduleConfigID) were not updated, the monitoring group information (ID, Schedule, ScheduleConfigID) is not output.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The agent node information has been obtained successfully.
404	Not Found	The specified manager does not exist. The specified agent does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameters	Data type	Description	Valid value
(Root)	object	Root object	-
ID	string	Node ID of the renewed agent	(eight-digit hexadecimal character)

Parameters	Data type	Description	Valid value
ScheduleConfigID	string	Updated schedule definition ID	-
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
POST /umf/fw/topology/agent/update HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, /*
Date: Fri, 13 May 2016 03:28:58 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:IeA+rVRkD3F6phF9ZCqsPkL5d5lrlVK8kGDwvQYw0do=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 68

{
    "ID" : "07353708",
    "Schedule" : 1,
    "ScheduleConfigID" : "57353d02"
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 139
Date: Fri, 13 May 2016 03:45:33 GMT

{
    "Schedule" : 1,
    "ScheduleConfigID" : "57353d02",
    "ID" : "07353708",
```

```

    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}

```

4.3 Reporting

4.3.1 Obtaining the report information

1. Process overview

Obtain the report setting information on the specified report ID.

2. HTTP method

GET

3. URL

/umf/fw/report/*ID*?ManagerName=**ManagerName**

Specify the report ID to be obtained in *ID*.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The report information has been obtained successfully.
404	Not Found	The specified report ID does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object	-
ReportID	object[]	Array of the report information	
ReportID[n].ID	string	Report ID	
ReportID[n].Patrol lamp	number	Patrol lamp report status	0: Disabled 1: Enabled

Parameter	Data type	Description	Valid value
ReportID[n].Patrol.lampPolicy	object[]	Array of the Patrol lamp policy information	
ReportID[n].Patrol.lampPolicy[m].PolicyID	string	Patrol lamp policy ID	
ReportID[n].Patrol.lampPolicy[m].PolicyName	string	Patrol lamp policy name	Up to 64 characters
ReportID[n].Mail	number	Mail report status	0: Disabled 1: Enabled
ReportID[n].MailPolicy	object[]	Array of the mail policy information	
ReportID[n].MailPolicy[m].PolicyID	string	Mail policy ID	
ReportID[n].MailPolicy[m].PolicyName	string	Mail policy name	Up to 64 characters
ReportID[n].Action	number	Action report status	0: Disabled 1: Enabled
ReportID[n].ActionPolicy	object[]	Array of the action policy information	
ReportID[n].ActionPolicy[m].PolicyID	string	Action policy ID	
ReportID[n].ActionPolicy[m].PolicyName	string	Action policy name	Up to 64 characters
Manager	object	Specify "% Processor Time" obtained when obtaining the monitoring counter information in the request Json.	-
Manager.Name	string	Manager name	Manager name MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0
 - Newly added

8. JSON example

[Request]

```
GET /umf/fw/report/56de78ea HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 07:00:43 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:7prnuI1wYQiekPdtzG8E/Dijl9QMq7jW0AZUGA/9SSw=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 369
Date: Wed, 16 Mar 2016 06:56:48 GMT

{
    "ReportID": [
        {
            "Action": 1,
            "ActionPolicy": [
                {
                    "PolicyID": "56de9126",
                    "PolicyName": "bbbb"
                }
            ],
            "ID": "56de78ea",
            "Mail": 1,
            "MailPolicy": [
                {
                    "PolicyID": "56e7c1bb",
                    "PolicyName": "running out of disk space on the se
rver"
                }
            ],
            "Patrol_lamp": 1,
            "Patrol_lampPolicy": [
                {
                    "PolicyID": "56de9118",
                    "PolicyName": "aaaa"
                }
            ]
        },
        {
            "Manager": {
                "ErrorMessage": "",
                "Name": "localhost",
                "Status": 200,
                "StatusCode": 200
            }
        }
    ]
}

```

4.3.2 Obtaining the mail policy list

1. Process overview

Obtain the mail policy list.

2. HTTP method

GET

3. URL

```
/umf/fw/report/mail/policy?ManagerName=ManagerName
```

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The mail policy information has been obtained successfully.
206	Partial Content	Obtaining the mail policy information has partially failed.
404	Not Found	The specified manager does not exist.

6. Response

Parameter	Data type	Description	Valid value														
(Root)	object	Root object	-														
Policy	object[]	Array of the policy information per manager	-														
Policy[n].MailPolicy	object[]	Array of the mail policy information	-														
Policy[n].MailPolicy[m].ID	string	Mail policy ID	-														
Policy[n].MailPolicy[m].PolicyName	string	Policy name	Up to 64 characters														
Policy[n].MailPolicy[m].SendTo	string[]	Array of the mail address of the receiver (To)	Up to 256 characters Up to 768 characters in the overall SendTo array														
Policy[n].MailPolicy[m].SendCc	string[]	Array of the mail address of the receiver (Cc)	Up to 256 characters Up to 768 characters in the overall SendCc array														
Policy[n].MailPolicy[m].SendBcc	string[]	Array of the mail address of the receiver (Bcc)	Up to 256 characters Up to 768 characters in the overall SendBcc array														
Policy[n].MailPolicy[m].Encode	number	Character code for encoding	<table border="1"> <thead> <tr> <th>Setting value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>65001</td> <td>utf-8</td> </tr> <tr> <td>932</td> <td>shift_jis</td> </tr> <tr> <td>50220</td> <td>iso-2022-jp</td> </tr> <tr> <td>936</td> <td>gb2312</td> </tr> <tr> <td>950</td> <td>big5</td> </tr> <tr> <td>54936</td> <td>GB18030</td> </tr> </tbody> </table>	Setting value	Description	65001	utf-8	932	shift_jis	50220	iso-2022-jp	936	gb2312	950	big5	54936	GB18030
Setting value	Description																
65001	utf-8																
932	shift_jis																
50220	iso-2022-jp																
936	gb2312																
950	big5																
54936	GB18030																

Parameter	Data type	Description	Valid value
Policy[n].MailPolicy[m].Subject	string	Subject	Up to 128 characters
Policy[n].MailPolicy[m].MailText	string	Text	Up to 2048 characters
Policy[n].MailPolicy[m].MailServerID	string	Mail server ID	-
Policy[n].Manager	object	Manager object	-
Policy[n].Manager.Name	string	Manager name	Manager name MoM name or RM name
Policy[n].Manager.ErrorMessage	string	Error messages	-
Policy[n].Manager.Status	number	Communication error code	-
Policy[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0
 - Newly added

8. JSON example

[Request]

```
GET /umf/fw/report/mail/policy HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 07:16:38 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:kr+SbfoX90iORYJhNgPKmjXWZUqWUjkQBeaMH5q3GzM=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1662
Date: Wed, 16 Mar 2016 07:12:42 GMT

{
  "Policy": [
    {
      "MailPolicy": [
        {
          "Encode": 50220,
          "ID": "56de78e5",
          "MailServerID": "56de78b9",
          "MailText": "A auto broadcast mail.",
          "PolicyName": "testPolicyA",
          "Subject": "Test Mail"
        }
      ]
    }
  ]
}
```



```
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
]
```

4.3.3 Obtaining the detailed mail policy

1. Process overview

Obtain the mail policy of the specified mail policy ID.

2. HTTP method

GET

3. URL

/umf/fw/report/mail/policy/**ID**?ManagerName=**ManagerName**

Specify the mail policy ID to be obtained in *ID*.

When more than one manager exists, specify the manager name acquired by getting the

topology tr

Paran

None

Response (HTTP status code)		
HTTP status code	Meaning	Description
200	OK	The mail policy information has been obtained successfully.
404	Not Found	The specified mail policy ID does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6 Response

Parameter	Data type	Description	Valid value
(Root)	object	Root object	-
MailPolicy	object[]	Array of the mail policy information	
MailPolicy[n].ID	string	Mail policy ID	
MailPolicy[n].PolicyName	string	Policy name	Up to 64 characters

Parameter	Data type	Description	Valid value														
MailPolicy[n].SendTo	string[]	Array of the mail address of the receiver (To)	Up to 256 characters Up to 768 characters in the overall SendTo array														
MailPolicy[n].SendCc	string[]	Array of the mail address of the receiver (Cc)	Up to 256 characters Up to 768 characters in the overall SendCc array														
MailPolicy[n].SendBcc	string[]	Array of the mail address of the receiver (Bcc)	Up to 256 characters Up to 768 characters in the overall SendBcc array														
MailPolicy[n].Encode	number	Character code for encoding	<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>65001</td><td>utf-8</td></tr> <tr> <td>932</td><td>shift_jis</td></tr> <tr> <td>50220</td><td>iso-2022-jp</td></tr> <tr> <td>936</td><td>gb2312</td></tr> <tr> <td>950</td><td>big5</td></tr> <tr> <td>54936</td><td>GB18030</td></tr> </tbody> </table>	Setting value	Description	65001	utf-8	932	shift_jis	50220	iso-2022-jp	936	gb2312	950	big5	54936	GB18030
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65001	utf-8																
932	shift_jis																
50220	iso-2022-jp																
936	gb2312																
950	big5																
54936	GB18030																
MailPolicy[n].Subject	string	Subject	Up to 128 characters														
MailPolicy[n].MailText	string	Text	Up to 2048 characters														
MailPolicy[n].MailServerID	string	Mail server ID															
Manager	object	Manager object	-														
Manager.Name	string	Manager name	Manager name MoM name or RM name														
Manager.ErrorMessage	string	Error messages	-														
Manager.Status	number	Communication error code	-														
Manager.StatusCode	number	Internal error code	-														

7. Change history

- X-FW-API-Version : 1.0
 - Newly added

8. JSON example

[Request]

```
GET /umf/fw/report/mail/policy/56e7c1bb HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 07:07:33 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:j/SZV/UglTTL8PcZOg7M7hgdp4mPDsgdE4hZoXUaMQ=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
```

4.3.4 Getting the mail server list

- ## 1. Process overview

Get the list of mail server information.

- ## 2. HTTP method

GET

- ### 3. URL

/umf/fw/report/mail/server?ManagerName=**ManagerName**

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Acquisition of the mail server information was successful.
206	Partial Content	Part of the mail server information failed to be acquired.
404	Not Found	The specified manager does not exist.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Server	object[]	Array of per-manager server information	-
Server[n].MailServer	object[]	Array of mail server information	
Server[n].MailServer[m].ID	string	Mail server ID	
Server[n].MailServer[m].MailServerName	string	Mail server name	Up to 64 characters
Server[n].MailServer[m].HostName	string	Host name or IP address of the mail server	Up to 64 characters
Server[n].MailServer[m].Port	number	Port number of the mail server	1 to 32767
Server[n].MailServer[m].mailFrom	string	Source mail address	Up to 128 characters
Server[n].Manager	object	Manager object	-
Server[n].Manager.Name	string	Manager name	Manager name MoM name or RM name
Server[n].Manager.ErrorMessage	string	Error messages	-
Server[n].Manager.Status	number	Communication error code	-
Server[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/report/mail/server HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 07:26:46 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:+qyHXYAjrHkCkk7vrwzYbqeBnFfavsrYfaVbtZrrgg=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 651
Date: Wed, 16 Mar 2016 07:22:51 GMT

{
    "Server": [
        {
            "MailServer": [
                {
                    "HostName": "testMailServer",
                    "ID": "56de78b9",
                    "MailFrom": "testMailServer@server.com",
                    "MailServerName": "testMailServer",
                    "Port": 25
                },
                {
                    "HostName": "testMailServerB",
                    "ID": "56de8f8c",
                    "MailFrom": "testMailServerB@server.com",
                    "MailServerName": "testMailServerB",
                    "Port": 25
                },
                {
                    "HostName": "mail.mco.nec.co.jp",
                    "ID": "56e7c162",
                    "MailFrom": "admin_mco@nec.com",
                    "MailServerName": "Mail server for fault analysis"
                }
            ],
            "Port": 25
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.3.5 Getting mail server details

1. Process overview

Get the information of the mail server having a specified mail server ID.

2. HTTP method

GET

3. URL

/umf/fw/report/mail/server/*ID*?ManagerName=*ManagerName*

In *ID*, specify the mail server ID of the mail server whose information you want to get.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in *ManagerName*.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Acquisition of the mail server information was successful.
404	Not Found	When the specified mail server ID does not exist The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
MailServer	object[]	Array of mail server information	-
MailServer[n].ID	string	Mail server ID	-
MailServer[n].MailServer Name	string	Mail server name	Up to 64 characters
MailServer[n].HostName	string	Host name or IP address of the mail server	Up to 64 characters
MailServer[n].Port	number	Port number of the mail server	1 to 32767
MailServer[n].MailFrom	string	Source mail address	Up to 128 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	Manager name MoM name or RM name
Manager.ErrorMessage	string	Error messages	-

Parameter	Type	Description	Valid value
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/report/mail/server/56e7c162 HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 07:31:32 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:s/M/vU5GRLTL+HRu+Wb/QezgwGnyw3Vypyclxj9WCRY=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 281
Date: Wed, 16 Mar 2016 07:27:37 GMT

{
  "MailServer": [
    {
      "HostName": "mail.mco.nec.co.jp",
      "ID": "56e7c162",
      "MailFrom": "admin_mco@nec.com",
      "MailServerName": "Mail server for fault analysis",
      "Port": 25
    }
  ],
  "Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
  }
}
```

4.3.6 Adding the mail policy

1. Process overview

Add the mail policy information.
Specifying ManagerName is required for this API.

2. HTTP method

POST

3. URL

/umf/fw/report/mail/policy

4. Parameters

Parameter	Data type	Description	Omission	Valid value
(Root)	object	Root object	No	-
MailPolicy	object	Mail policy information	No	-
MailPolicy.PolicyName	string	Policy name	No	Up to 64 characters
MailPolicy.SendTo	string[]	Array of the mail address of the receiver (To)		<p>Up to 256 characters Up to 768 characters in the overall SendTo array (If more than one address is specified, the number of characters in the entire array includes 2-byte line feed characters (\r\n) used as a delimiter of addresses. This is the same condition as Svc.)</p> <p>The only supported format is to specify an address (local part@domain). Commas (,) cannot be used.</p> <p>Example: SendTo=AAA@mail.com SendTo=BBB@mail.com</p> <p>* SendTo, SendCc, or SendBcc must be specified.</p> <p>Default value: : left blank</p>
MailPolicy.SendCc	string[]	Array of the mail address of the receiver (Cc)		<p>Up to 256 characters Up to 768 characters in the overall SendCc array</p> <p>The only supported format is to specify an address (local part@domain).</p> <p>* SendTo, SendCc, or SendBcc must be specified.</p> <p>Default value: : left blank</p>
MailPolicy.SendBcc	string[]	Array of the mail address of the receiver (Bcc)		<p>Up to 256 characters Up to 768 characters in the overall SendBcc array</p> <p>The only supported format is to specify an address (local part@domain).</p>

Parameter	Data type	Description	Omission	Valid value																		
				* SendTo, SendCc, or SendBcc must be specified. Default value: : left blank																		
MailPolicy.Encode	number	Character code for encoding	-	<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>65001</td><td>utf-8</td></tr> <tr> <td>932</td><td>shift_jis</td></tr> <tr> <td>50220</td><td>iso-2022-jp</td></tr> <tr> <td>936</td><td>gb2312</td></tr> <tr> <td>950</td><td>big5</td></tr> <tr> <td>54936</td><td>GB18030</td></tr> </tbody> </table> Default value: <table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>65001</td><td>utf-8</td></tr> </tbody> </table>	Setting value	Description	65001	utf-8	932	shift_jis	50220	iso-2022-jp	936	gb2312	950	big5	54936	GB18030	Setting value	Description	65001	utf-8
Setting value	Description																					
65001	utf-8																					
932	shift_jis																					
50220	iso-2022-jp																					
936	gb2312																					
950	big5																					
54936	GB18030																					
Setting value	Description																					
65001	utf-8																					
MailPolicy.Subject	string	Subject	-	Up to 128 characters Default value: : left blank																		
MailPolicy.MailText	string	Text	-	Up to 2048 characters Default value: A space left																		
MailPolicy.MailServer ID	string	Mail server ID	No	Eight-digit hexadecimal character Not case sensitive																		
Manager	object	Manager object	No	-																		
Manager.Name	string	Manager name	No	Manager name MoM name or RM name																		

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The mail policy information has been added successfully.
400	Bad Request	The manager is not specified.
404	Not Found	The specified report ID does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Data type	Description	Valid value														
(Root)	object	Root object	-														
MailPolicy	object	Mail policy information															
MailPolicy.ID	string	Mail policy ID															
MailPolicy.PolicyName	string	Policy name															
MailPolicy.SendTo	string[]	Array of the mail address of the receiver (To)															
MailPolicy.SendCc	string[]	Array of the mail address of the receiver (Cc)															
MailPolicy.SendBcc	string[]	Array of the mail address of the receiver (Bcc)															
MailPolicy.Encode	number	Character code for encoding	<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>65001</td><td>utf-8</td></tr> <tr> <td>932</td><td>shift_jis</td></tr> <tr> <td>50220</td><td>iso-2022-jp</td></tr> <tr> <td>936</td><td>gb2312</td></tr> <tr> <td>950</td><td>big5</td></tr> <tr> <td>54936</td><td>GB18030</td></tr> </tbody> </table>	Setting value	Description	65001	utf-8	932	shift_jis	50220	iso-2022-jp	936	gb2312	950	big5	54936	GB18030
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65001	utf-8																
932	shift_jis																
50220	iso-2022-jp																
936	gb2312																
950	big5																
54936	GB18030																
MailPolicy.Subject	string	Subject	Up to 128 characters														
MailPolicy.MailText	string	Text	Up to 2048 characters														
MailPolicy.MailServerID	string	Mail server ID	Eight-digit hexadecimal character														
Manager	object	Manager object	-														
Manager.Name	string	Manager name	Manager name MoM name or RM name														
Manager.ErrorMessage	string	Error messages	-														
Manager.Status	number	Communication error code	-														
Manager.StatusCode	number	Internal error code	-														

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/report/mail/policy HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, /*
Date: Fri, 13 May 2016 03:49:59 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:D2GWN31vuaMG5hf+NJz0Kicv/8wAFZu8yIj8vos0x6Y=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
```

```

Connection: keep-alive
Content-Length: 406

{
  "MailPolicy" : {
    "PolicyName" : "testPolicyB",
    "SendTo" : [ "testpolicy@policy.com", "testpolicy2@policy.com", "testpolicy3@policy.com" ],
    "SendCc" : [ ],
    "SendBcc" : [ "testpolicyBcc@policy.com" ],
    "Encode" : 50220,
    "Subject" : "Test?I",
    "MailText" : "A auto broadcast mail.",
    "MailServerID" : "56de78b9"
  },
  "Manager" : {
    "Name" : "localhost"
  }
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 370
Date: Fri, 13 May 2016 04:06:34 GMT

{
  "MailPolicy" : {
    "SendTo" : [ "testpolicy@policy.com", "testpolicy2@policy.com", "testpolicy3@policy.com" ],
    "Encode" : 50220,
    "SendCc" : [ ],
    "MailText" : "A auto broadcast mail.",
    "MailServerID" : "5735514b",
    "ID" : "56de8fb9",
    "PolicyName" : "testPolicyB",
    "Subject" : "Test?I",
    "SendBcc" : [ "testpolicyBcc@policy.com" ]
  },
  "Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
  }
}

```

4.3.7 Updating the mail policy

1. Process overview

Update the mail policy of the specified mail policy ID.
The contents that have been set are inherited if the parameters are omitted.

2. HTTP method

PUT

3. URL

/umf/fw/report/mail/policy/*ID*

Specify the mail policy ID to be updated in *ID*.

4. Parameters

Parameter	Data type	Description	Omission	Valid value
(Root)	object	Root object	Not possible	-
MailPolicy	object	Mail policy information	Not possible	-
MailPolicy.PolicyName	string	Policy name		Up to 64 characters Leaving blank characters is prohibited since this setting is required when adding the policy.
MailPolicy.SendTo	string[]	Receiver (To)		Up to 256 characters Up to 768 characters in the overall SendTo array The only supported format is to specify an address (local part@domain). * SendTo, SendCc, or SendBcc must be specified. It is not permitted to specify blank characters for all of them.
MailPolicy.SendCc	string[]	Receiver (Cc)		Up to 256 characters Up to 768 characters in the overall SendCc array The only supported format is to specify an address (local part@domain). * SendTo, SendCc, or SendBcc must be specified. It is not permitted to specify blank characters for all of them.
MailPolicy.SendBcc	string[]	Receiver (Bcc)		Up to 256 characters Up to 768 characters in the overall SendBcc array

Parameter	Data type	Description	Omission	Valid value														
				The only supported format is to specify an address (local part@domain). * SendTo, SendCc, or SendBcc must be specified. It is not permitted to specify blank characters for all of them.														
MailPolicy.Encode	number	Character code for encoding		<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>65001</td><td>utf-8</td></tr> <tr> <td>932</td><td>shift_jis</td></tr> <tr> <td>50220</td><td>iso-2022-jp</td></tr> <tr> <td>936</td><td>gb2312</td></tr> <tr> <td>950</td><td>big5</td></tr> <tr> <td>54936</td><td>GB18030</td></tr> </tbody> </table>	Setting value	Description	65001	utf-8	932	shift_jis	50220	iso-2022-jp	936	gb2312	950	big5	54936	GB18030
Setting value	Description																	
65001	utf-8																	
932	shift_jis																	
50220	iso-2022-jp																	
936	gb2312																	
950	big5																	
54936	GB18030																	
MailPolicy.Subject	string	Subject		Up to 128 characters														
MailPolicy.MailText	string	Text		Up to 2048 characters														
MailPolicy.MailServer ID	string	Mail server ID		Eight-digit hexadecimal character Not case sensitive														
Manager	object	Manager object		-														
Manager.Name	string	Manager name		Manager name MoM name or RM name														

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The mail policy information has been updated successfully.
404	Not Found	The specified mail policy ID does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Data type	Description	Valid value
(Root)	object	Root object	-
MailPolicy	object	Mail policy information on the result of update	
MailPolicy.ID	string	Mail policy ID	
MailPolicy.PolicyName	string	Policy name	

Parameter	Data type	Description	Valid value														
MailPolicy.SendTo	string[]	Array of the mail address of the receiver (To)															
MailPolicy.SendCc	string[]	Array of the mail address of the receiver (Cc)															
MailPolicy.SendBcc	string[]	Array of the mail address of the receiver (Bcc)															
MailPolicy.Encode	number	Character code for encoding	<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>65001</td><td>utf-8</td></tr> <tr> <td>932</td><td>shift_jis</td></tr> <tr> <td>50220</td><td>iso-2022-jp</td></tr> <tr> <td>936</td><td>gb2312</td></tr> <tr> <td>950</td><td>big5</td></tr> <tr> <td>54936</td><td>GB18030</td></tr> </tbody> </table>	Setting value	Description	65001	utf-8	932	shift_jis	50220	iso-2022-jp	936	gb2312	950	big5	54936	GB18030
Setting value	Description																
65001	utf-8																
932	shift_jis																
50220	iso-2022-jp																
936	gb2312																
950	big5																
54936	GB18030																
MailPolicy.Subject	string	Subject															
MailPolicy.MailText	string	Text															
MailPolicy.MailServerID	string	Mail server ID															
Manager	object	Manager object	-														
Manager.Name	string	Manager name	Manager name MoM name or RM name														
Manager.ErrorMessage	string	Error messages	-														
Manager.Status	number	Communication error code	-														
Manager.StatusCode	number	Internal error code	-														

7. Change history

- X-FW-API-Version : 1.0
 - Newly added

8. JSON example

Example: Update the mail policy setting of the manager "MoM1" according to the following procedure.

- Add "director_mco@nec.com" to the receiver (To) "admin_mco@nec.com".
 - Delete the receiver (Bcc).
 - Change the character code for encoding to shift_jis.
- a. Obtain the mail policy list, and confirm the management ID of the mail policy to be updated.
- For details, see "[Obtaining the mail policy list \(page 101\)](#)".
- b. Update the mail policy settings.
Specify the following parameters, and execute the request.
- Specify the mail policy ID to be updated (this ID was obtained when obtaining the mail policy list) as the ID of the URL of this API.

- Specify the receiver (To), receiver (Bcc), and character code for encoding in the request JSON.

[Request]

```
PUT /umf/fw/report/mail/policy/56e7c1bb HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 01:59:30 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:st3m78ISzeAegglrka3WfuLxLHT5OeO0rJ7ye2Fdwzk=
Host: 192.168.21.4:12080
Content-Length: 134

{
    "MailPolicy": {
        "Encode": 932,
        "SendBcc": [],
        "SendTo": [
            "admin_mco@nec.com",
            "director_mco@nec.com"
        ]
    },
    "Manager": {
        "Name": "localhost"
    }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1012
Date: Fri, 18 Mar 2016 01:55:36 GMT

{
    "MailPolicy": {
        "Encode": 932,
        "ID": "56e7c1bb",
        "MailServerID": "56e7c162",
        "MailText": "SystemManager G \r\n\r\n-----\r\n-----$GENERATEDDATE$\r\n-----$GENERATEDTIME$\r\n-----\r\n-----$NODE$\r\n-----$SEVERITY$\r\n-----$APPLICATION$\r\n-----$OBJECT$\r\n-----\r\n-----$MESSAGEID$\r\n-----$MESSAGETEXT$\r\n-----",
        "PolicyName": "",
        "SendBcc": [],
        "SendCc": [
            "member_mco@nec.com"
        ],
        "SendTo": [

```

```

        "admin_mco@nec.com",
        "director_mco@nec.com"
    ],
    "Subject": ""
},
"Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
}
}

```

4.3.8 Deleting the mail policy

1. Process overview

Delete the mail policy setting information of the specified mail policy ID.

The specified mail policy can be deleted.

If the specified mail policy is deleted, an error is reported.

2. HTTP method

DELETE

3. URL

/umf/fw/report/mail/policy/**ID**?ManagerName=**ManagerName**

Specify the mail policy ID to be deleted in **ID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The mail policy information has been deleted successfully.
404	Not Found	The specified mail policy does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object	-
MailPolicy	object	Mail policy information	

Parameter	Data type	Description	Valid value
MailPolicy.ID	string	Mail policy ID	
Manager	object	Manager object	-
Manager.Name	string	Manager name	Manager name MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
DELETE /umf/fw/report/mail/policy/56de8fb9 HTTP/1.1
Accept: application/json, /*
Date: Fri, 13 May 2016 03:56:30 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:Xi/HRG4EgMVTPhj6LRo5QD99i18yVR6vT78MWlcpD5M=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 111
Date: Fri, 13 May 2016 04:13:05 GMT

{
  "MailPolicy" : {
    "ID" : "56de8fb9"
  },
  "Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
  }
}
```

4.4 Process monitoring

4.4.1 Obtaining the process monitoring tree configuration

1. Process overview

Obtain the process monitoring tree configuration of the specified agent.

2. HTTP method

GET

3. URL

/umf/fw/process/group/**AgentName**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The process monitoring tree configuration has been obtained successfully.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(ROOT)	object	Root object	-
Agent	object[]	Array of agent information	-
Agent[n].Name	string	Agent name	Up to 64 characters Agent name displayed in the topology view
Agent[n].NodeID	string	Management ID of the agent	Eight-digit hexadecimal character Unique character string that identifies the agent
Agent[n].ProcessGroup	object[]	Array of process group information	

Parameter	Type	Description	Valid value
Agent[n].ProcessGroup[m].Name	string	Process group name	Up to 64 characters Process group name displayed in the topology view
Agent[n].ProcessGroup[m].NodeID	string	Management ID of the process group	Eight-digit hexadecimal character Unique character string that identifies the process group
Agent[n].ProcessGroup[m].Process	object[]	Array of process information being monitored	-
Agent[n].ProcessGroup[m].Process[l].Name	string	Process name	Up to 64 characters
Agent[n].ProcessGroup[m].Process[l].NodeID	string	Management ID of the process	Eight-digit hexadecimal character
Agent[n].ProcessGroup[m].Process[l].Severity	number	Severity	-
Agent[n].ProcessGroup[m].ProcessGroup	object[]	Array of process group information	This is a recursive structure with the same structure as ProcessGroup object described above.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/process/group/AgentHost HTTP/1.1
x-fw-api-version: 1.0
Date: Tue, 15 Mar 2016 23:42:03 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:XV1lvFvwfBUEzusSoB8iAXgdrW01sk/qlsiunZUdPHE=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 311
```

```

Date: Tue, 15 Mar 2016 23:38:07 GMT

{
    "Agent": [
        {
            "Name": "AgentHost",
            "NodeID": "06e7e015",
            "ProcessGroup": [
                {
                    "Name": "ProcessGroupA",
                    "NodeID": "56e7e048",
                    "Process": [
                        {
                            "Name": "postgres.exe",
                            "NodeID": "56e89a2b",
                            "Severity": 275
                        }
                    ]
                },
                {
                    "Name": "APServerMonitor",
                    "NodeID": "06e89b69"
                }
            ]
        ],
        "Manager": {
            "ErrorMessage": "",
            "Name": "localhost",
            "Status": 200,
            "StatusCode": 200
        }
    }
}

```

4.4.2 Obtaining the monitoring process setting information

1. Process overview

Obtain the monitoring process setting information of the specified process group or process.

2. HTTP method

GET

3. URL

/umf/fw/process/monitor/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the process group to be obtained or monitoring process in **NodeID**.

If the management ID of the process group is specified in **NodeID**, all information of the monitoring process located under the specified group is output.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring process setting information has been obtained successfully.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The management ID of the specified process group or process does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(ROOT)	object	Root object	-
Process	object[]	Array of process information being monitored	-
Process[n].Name	string	Process name	Up to 64 characters
Process[n].NodeID	string	Management ID of the process	Eight-digit hexadecimal character
Process[n].Type	number	Process monitoring method	0: Process path monitoring 1: Command line monitoring
Process[n].CommandLine	string	Path for command line monitoring	Up to 256 characters
Process[n].ProcessPath	string	Path for process path monitoring	Up to 256 characters
Process[n].LowThreshold	number	Lower limit of the process count	Value in the range of 1 to 9999 and below the upper limit of the process count
Process[n].HighThreshold	number	Upper limit of the process count	Value in the range of 1 to 9999 and below the upper limit of the process count
Process[n].MonitorProcessID	number	Process ID change monitoring	0: Do not monitor 1: Monitor
Process[n].StartCommand	string	Application of the start command	Up to 256 characters
Process[n].StartDirectory	string	Work directory of the start command	Up to 256 characters
Process[n].StartOption	string	Option of the start command	Up to 256 characters

Parameter	Type	Description	Valid value
Process[n].StopCommand	string	Application of the stop command	Up to 256 characters
Process[n].StopDirectory	string	Work directory of the stop command	Up to 256 characters
Process[n].StopOption	string	Option of the stop command	Up to 256 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
GET /umf/fw/process/monitor/AgentHost/06e8a3d9 HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 00:24:50 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:vVGD9E0PKHXHplqkHt0r5uyGIAG/3rnANOs8ZLEUgQw=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 415
Date: Wed, 16 Mar 2016 00:20:54 GMT

{
  "Process": [
    {
      "CommandLine": "",
      "HighThreshold": 9999,
      "LowThreshold": 1,
      "MonitorProcessID": 0,
      "Name": "tomcat8.exe",
      "NodeID": "06e8a3d9",
      "ProcessPath": "C:\Program Files (x86)\NECUMFY\Operations\Tomcat\bin\tomcat8.exe",
      "StartCommand": ""
    }
  ]
}
```

```

        "StartDirectory": "",  

        "StartOption": "",  

        "StopCommand": "",  

        "StopDirectory": "",  

        "StopOption": "",  

        "Type": 0  

    }  

],  

"Manager": {  

    "ErrorMessage": "",  

    "Name": "localhost",  

    "Status": 200,  

    "StatusCode": 200  

}  

}

```

4.4.3 Adding the process group

1. Process overview

Add the process group.

2. HTTP method

POST

3. URL

/umf/fw/process/group/**AgentName**/**NodeID**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the node ID (agent/group) to be added in **NodeID**.

Tip

If the node ID of the agent is specified, use NodeID obtained in "[4.4.1 Obtaining the process monitoring tree configuration \(page 122\)](#)".

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Name	string	Monitoring group name to be added	No	Up to 64 characters * You can specify a group node to be added only if that node does not have any child node which is set as a group node.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response

HTTP status code	Meaning	Description
200	OK	The process group has been added successfully.
400	Bad Request	The node to be added is the group node where process monitoring for the child nodes is set. The monitoring group name to be added is not specified. A node other than agent/group is specified as the node ID to be added.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified node does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(ROOT)	object	Root object	-
NodeID	string	Management ID of the added monitoring group	Eight-digit hexadecimal character
Name	string	Added monitoring group name	Up to 64 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	-
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* A group with the same name as the existing monitoring group can be registered.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/process/group/AgentHost/06e7e015 HTTP/1.1
Content-type: application/json; charset=utf-8
X-fw-api-version: 1.0
Date: Tue, 15 Mar 2016 23:35:49 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:KXEzmnjvBFsWdIUtjA2LiDwYk5nmCqqCnoAjrSYqTdc=
Host: 192.168.21.4:12080
Content-Length: 58
```

```
{
    "Name": "APServerMonitor",
    "Manager": {
        "Name": "localhost"
    }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 125
Date: Tue, 15 Mar 2016 23:31:53 GMT

{
    "Name": "APServerMonitor",
    "NodeID": "06e89b69",
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.4.4 Deleting the process group

1. Process overview

Delete the specified process group.
The process monitoring settings located under the monitoring group are also deleted.

2. HTTP method

```
DELETE
```

3. URL

```
/umf/fw/process/group/AgentName/NodeID?ManagerName=ManagerName
```

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the monitoring group to be deleted in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The process group has been deleted successfully.
400	Bad Request	A node other than the management ID of the monitoring group to be deleted is specified as the node ID to be deleted.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified monitoring group does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(ROOT)	object	Root object	-
NodeID	string	Management ID of the deleted monitoring group	Eight-digit hexadecimal character
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
DELETE /umf/fw/process/group/AgentHost/06e89b69 HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 00:52:56 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:8OTRT/OdV7uNbtUWRlDHSiulLbckVsZvEihlm9JXxmc=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
```

```

Content-Type: application/json; charset=UTF-8
Content-Length: 100
Date: Wed, 16 Mar 2016 00:49:01 GMT

{
    "NodeID": "06e89b69",
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}

```

4.4.5 Updating the process group

1. Process overview

Update the specified process group.

2. HTTP method

PUT

3. URL

/umf/fw/process/group/**AgentName**/**NodeID**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the node ID (monitoring group node) to be updated in **NodeID**.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Name	string	Monitoring group name to be renewed	No	Up to 64 characters
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The process group has been updated successfully.
400	Bad Request	The monitoring group name to be updated is not specified. A node other than the management ID of the monitoring group to be updated is specified as the node ID to be updated.

HTTP status code	Meaning	Description
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified node does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(ROOT)	object	Root object	-
NodeID	string	Management ID of the updated monitoring group	8 digits in hexadecimal
Name	string	Updated monitoring group name	Up to 64 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

- * A group with the same name as the existing monitoring group can be registered.
- * If the monitoring group information (Name) is not updated, the monitoring group information (NodeID, Name) is not output.
- * If the same NodeID is specified for more than one setting, the setting registered later is valid, and an error does not occur.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
PUT /umf/fw/process/group/AgentHost/56e7e048 HTTP/1.1
Content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Tue, 15 Mar 2016 23:47:28 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:KxWvpdlj2cNjAvMFyzWAdsVj68rfIrgAULZmTvPYsQM=
Host: 192.168.21.4:12080
Content-Length: 52

{
  "Name": "DBMonitor",
  "Manager": {
```

```

        "Name": "localhost"
    }
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 119
Date: Tue, 15 Mar 2016 23:43:32 GMT

{
    "Name": "DBMonitor",
    "NodeID": "56e7e048",
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}

```

4.4.6 Adding the monitoring process settings

1. Process overview

Add the process monitoring settings under the specified process group.

2. HTTP method

POST

3. URL

/umf/fw/process/monitor/**AgentName**/**NodeID**/add

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the process group to be added in **NodeID**.

* You can specify a group node to be added only if that node does not have any child node which is set as a group node.

4. Parameter

Parameter	Type	Description	O m i tta bl e	Valid value
(Root)	object	Root object	No	-

Parameter	Type	Description	Omittable	Valid value
Process	object[]	Object of the process information to be added	No	-
Process[n].Name	string	Process name	No	Up to 64 characters
Process[n].Type	number	Process monitoring method	No	0: Process path monitoring 1: Command line monitoring
Process[n].TargetPath	string	Path for monitoring the process path or path for monitoring the command line	No	Up to 256 characters * The destination reflected varies according to the setting of Type. In the case of Type = 0, the process path is monitored. Specify the monitoring process by using the absolute path. In the case of Type = 1, the command line is monitored. Describe this key using a regular expression. (When using meta characters such as a period (.) or yen mark (\) (characters with special meanings for regular expression) as normal characters, add "\\" immediately before the meta character to escape.)
Process[n].LowThreshold	number	Lower limit of the process count		Value in the range of 1 to 9999 and below the upper limit of the process count Default value: 1
Process[n].HighThreshold	number	Upper limit of the process count		Value in the range of 1 to 9999 and below the upper limit of the process count Default value: 9999
Process[n].MonitorProcessID	number	Process ID change monitoring		0: Do not monitor 1: Monitor Default value: 0: Not monitoring
Process[n].StartCommand	string	Application of the start command		Up to 256 characters Default value: Blank: The application of the startup command is not registered.
Process[n].StartDirectory	string	Work directory of the start command		Up to 256 characters Default value:

Parameter	Type	Description	Omittable	Valid value
				Blank: The working directory of the startup command is not registered.
Process[n].StartOption	string	Option of the start command		Up to 256 characters Default value: Blank: The option of the startup command is not registered.
Process[n].StopCommand	string	Application of the stop command		Up to 256 characters Default value: Blank: The application of the stop command is not registered.
Process[n].StopDirectory	string	Work directory of the stop command		Up to 256 characters Default value: Blank: The working directory of the stop command is not registered.
Process[n].StopOption	string	Option of the stop command		Up to 256 characters Default value: Blank: The option of the stop command is not registered.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The process monitoring setting has been added successfully.
400	Bad Request	The node to be added is the group node which has a child node set as a group node. The process name is not specified. The process monitoring method is not specified. The path for monitoring the process path or path for monitoring the command line is not specified. The management ID for groups other than the process group is specified as the management ID of the process group to be added.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified process group to be monitored does not exist. The specified manager does not exist.

HTTP status code	Meaning	Description
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(ROOT)	object	Root object	-
NodeID	string	Management ID of the process group	8 digits in hexadecimal
Process	object[]	Array of added process information	* Only the added process information is enumerated.
Process[n].Name	string	Process name	Up to 64 characters
Process[n].NodeID	string	Management ID of the process	8 digits in hexadecimal
Process[n].Type	number	Process monitoring method	0: Process path monitoring 1: Command line monitoring
Process[n].CommandLine	string	Path for command line monitoring	Up to 256 characters
Process[n].ProcessPath	string	Path for process path monitoring	Up to 256 characters
Process[n].LowThreshold	number	Lower limit of the process count	Value in the range of 1 to 9999 and below the upper limit of the process count
Process[n].HighThreshold	number	Upper limit of the process count	Value in the range of 1 to 9999 and below the upper limit of the process count
Process[n].MonitorProcessID	number	Process ID change monitoring	0: Do not monitor 1: Monitor
Process[n].StartCommand	string	Application of the start command	Up to 256 characters
Process[n].StartDirectory	string	Work directory of the start command	Up to 256 characters
Process[n].StartOption	string	Option of the start command	Up to 256 characters
Process[n].StopCommand	string	Application of the stop command	Up to 256 characters
Process[n].StopDirectory	string	Work directory of the stop command	Up to 256 characters
Process[n].StopOption	string	Option of the stop command	Up to 256 characters
Process[n].Existence	boolean	Whether the process exists or not in the agent when adding	false: Does not exist. true: Exists.
Manager	object	Manager object	-

Parameter	Type	Description	Valid value
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

Example: Adding the monitoring definition setting of the "tomcat8.exe" process to the process group of the agent "AgentHost"

- a. Obtain the topology tree configuration, and confirm the Agent name to be added.

For details, see "["Obtaining the topology tree configuration \(page 73\)"](#)".

- b. Confirm the management ID of the process group to be the destination to which the monitoring definition setting is added. Obtain the process tree configuration, and then obtain the management ID of the process group to be the destination to which the monitoring definition setting is added.

For details, see "["Obtaining the process monitoring tree configuration \(page 122\)"](#)".

- c. Confirm the process name to which the monitoring definition setting is added and the path for monitoring. Obtain the list of the process being started up, and obtain the process name to which you want to add the monitoring definition setting, the path for monitoring the command line, or the path for monitoring the process.

For details, see "["Obtaining the list of the process being started up \(page 146\)"](#)".

- d. Add the monitoring process definition. Specify the following parameters, and execute the request.
 - Specify "AgentHost" obtained when obtaining the topology tree configuration as AgentName of the URL of this API.
 - Specify the management ID of the process group obtained when obtaining the process tree configuration as NodeID of the URL of this API.
 - Specify the process name and path for monitoring obtained when obtaining the list of the process being started up in the request JSON.

[Request]

```
POST /umf/fw/process/monitor/AgentHost/06e89b69/add HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 00:11:48 GMT
Authorization: SharedKeyLite 16ubpcPb793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:+8xWwFph+vK4bjZBKEg4Nwrggg4hMc45cAX2sgBNN88c=
Host: 192.168.21.4:12080
```

```
Content-Length: 168

{
    "Process": [
        {
            "Name": "tomcat8.exe",
            "TargetPath": "C:\Program Files (x86)\NECYUMF\Operations\Tomcat\bin\tomcat8.exe",
            "Type": 0
        }
    ],
    "Manager": {
        "Name": "localhost"
    }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 452
Date: Wed, 16 Mar 2016 00:07:53 GMT

{
    "NodeID": "06e89b69",
    "Process": [
        {
            "CommandLine": "",
            "Existence": true,
            "HighThreshold": 9999,
            "LowThreshold": 1,
            "MonitorProcessID": 0,
            "Name": "tomcat8.exe",
            "NodeID": "06e8a3d9",
            "ProcessPath": "C:\Program Files (x86)\NECYUMF\Operations\Tomcat\bin\tomcat8.exe",
            "StartCommand": "",
            "StartDirectory": "",
            "StartOption": "",
            "StopCommand": "",
            "StopDirectory": "",
            "StopOption": "",
            "Type": 0
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.4.7 Deleting the monitoring process settings

1. Process overview

Delete the specified monitoring process settings.

2. HTTP method

POST

3. URL

/umf/fw/process/monitor/**AgentName**/**NodeID**/remove

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the process group including the process to be deleted in **NodeID**.

4. Parameters

Parameter	Type	Description	O m i tta b l e	Valid value
(Root)	object	Root object	No	-
Process	object[]	Array of process information to be deleted	No	
Process[n].NodeID	string	Management ID of the process to be deleted	No	8 digits in hexadecimal
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The process monitoring setting has been deleted successfully.
400	Bad Request	The management ID of the process is not specified. The management ID for groups other than the process group is specified as the management ID of the process group including the process to be deleted.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The management ID of the specified process group does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one

HTTP status code	Meaning	Description
		identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(ROOT)	object	Root object	-
NodeID	string	Management ID of the process group including the process to be deleted	8 digits in hexadecimal
Process	object[]	Array of process information to be deleted	* Only the deleted process information is enumerated.
Process[n].NodeID	string	Management ID of the process to be deleted	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* NodeID of the process that does not exist is skipped, and an error does not occur.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

Example: Deleting the monitoring definition setting of the "postgres.exe" process from the process group of the agent "AgentHost"

- a. Obtain the topology tree configuration, and confirm the Agent name to be deleted.

For details, see "[Obtaining the process monitoring tree configuration \(page 73\)](#)".

- b. Confirm the management ID of the process group where the process to be added exists and management ID of the process to be added. Obtain the process tree configuration, and obtain the management ID of the process group that manages the postgres.exe process and the management ID of the process to be deleted.

For details, see "[Obtaining the process monitoring tree configuration \(page 122\)](#)".

- c. Delete the monitoring process definition setting. Specify the following parameters, and execute the request.
 - Specify "AgentHost" obtained when obtaining the topology tree configuration as AgentName of the URL of this API.
 - Specify the management ID of the process group obtained when obtaining the process tree configuration as NodeID of the URL of this API.

- Specify the management ID of the process to be deleted obtained when obtaining the process tree configuration in the request JSON.

[Request]

```
POST /umf/fw/process/monitor/AgentHost/56e7e048/remove HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 00:48:56 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:ILkJUUoqxRF2oXW19pjIcuQ6oblfB2JKpU9FFqfXVM=
Host: 192.168.21.4:12080
Content-Length: 69

{
  "Process": [
    {
      "NodeID": "56e89a2b"
    }
  ],
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 134
Date: Wed, 16 Mar 2016 00:45:02 GMT

{
  "NodeID": "56e7e048",
  "Process": [
    {
      "NodeID": "56e89a2b"
    }
  ],
  "Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
  }
}
```

4.4.8 Updating the monitoring process settings

1. Process overview

Update the specified monitoring process settings.

2. HTTP method

POST

3. URL

/umf/fw/process/monitor/**AgentName**/**NodeID**/update

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the process group to be updated in **NodeID**.

4. Parameters

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Process	object[]	Process information to be updated	No	-
Process[n].NodeID	string	Management ID of the process to be updated	No	8 digits in hexadecimal
Process[n].Name	string	Process name		Up to 64 characters
Process[n].Type	number	Process monitoring method		0: Process path monitoring 1: Command line monitoring * If the path to be monitored is not saved (or specified by this command), an error occurs.
Process[n].TargetPath	string	Path for monitoring the process path or path for monitoring the command line		Up to 256 characters In the case of Type = 0, the process path is monitored. Specify the monitoring process by using the absolute path. In the case of Type = 1, the command line is monitored. Describe this key using a regular expression. (When using meta characters such as a period (.) or yen mark (\) (characters with special meanings for regular expression) as normal characters, add "\\" immediately before the meta character to escape.)
Process[n].LowThreshold	number	Lower limit of the process count		Value in the range of 1 to 9999 and below the upper limit of the process count
Process[n].HighThreshold	number	Upper limit of the process count		Value in the range of 1 to 9999 and below the upper limit of the process count
Process[n].MonitorProcessID	number	Process ID change monitoring		0: Do not monitor 1: Monitor

Parameter	Type	Description	Omitable	Valid value
Process[n].StartCommand	string	Application of the start command		Up to 256 characters
Process[n].StartDirectory	string	Work directory of the start command		Up to 256 characters
Process[n].StartOption	string	Option of the start command		Up to 256 characters
Process[n].StopCommand	string	Application of the stop command		Up to 256 characters
Process[n].StopDirectory	string	Work directory of the stop command		Up to 256 characters
Process[n].StopOption	string	Option of the stop command		Up to 256 characters
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The process monitoring setting has been updated successfully.
400	Bad Request	The management ID of the process to be updated is not specified. The management ID for groups other than the process group is specified as the management ID of the process group including the process to be updated.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified process group to be updated does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(ROOT)	object	Root object	-
NodeID	string	Management ID of the process group	8 digits in hexadecimal
Process	object[]	Array of process information being monitored	-
Process[n].Name	string	Process name	Up to 64 characters

Parameter	Type	Description	Valid value
Process[n].NodeID	string	Management ID of the process	8 digits in hexadecimal
Process[n].Type	number	Process monitoring method	0: Process path monitoring 1: Command line monitoring
Process[n].CommandLine	string	Path for command line monitoring	Up to 256 characters
Process[n].ProcessPath	string	Path for process path monitoring	Up to 256 characters
Process[n].LowThreshold	number	Lower limit of the process count	Value in the range of 1 to 9999 and below the upper limit of the process count
Process[n].HighThreshold	number	Upper limit of the process count	Value in the range of 1 to 9999 and below the upper limit of the process count
Process[n].MonitorProcessID	number	Process ID change monitoring	0: Do not monitor 1: Monitor
Process[n].StartCommand	string	Application of the start command	Up to 256 characters
Process[n].StartDirectory	string	Work directory of the start command	Up to 256 characters
Process[n].StartOption	string	Option of the start command	Up to 256 characters
Process[n].StopCommand	string	Application of the stop command	Up to 256 characters
Process[n].StopDirectory	string	Work directory of the stop command	Up to 256 characters
Process[n].StopOption	string	Option of the stop command	Up to 256 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* If the same NodeID is specified as more than one setting, the setting registered later is valid, and an error does not occur.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/process/monitor/AgentHost/06e89b69/update HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
```

```

Date: Wed, 16 Mar 2016 00:41:03 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
So=:82paHmz6GiupnpkTqaHV5194THb8wNQDKC4hiAgxH8M=
Host: 192.168.21.4:12080
Content-Length: 303

{
    "Process": [
        {
            "HighThreshold": 1000,
            "LowThreshold": 10,
            "MonitorProcessID": 1,
            "NodeID": "06e8a3d9",
            "StartCommand": "C:\Program Files (x86)\NECYUMF\Operations\Tomcat\bin\startup.bat",
            "StartDirectory": "C:\Program Files (x86)\NECYUMF\Operations\Tomcat\bin"
        }
    ],
    "Manager": {
        "Name": "localhost"
    }
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 565
Date: Wed, 16 Mar 2016 00:37:08 GMT

{
    "NodeID": "06e89b69",
    "Process": [
        {
            "CommandLine": "",
            "HighThreshold": 1000,
            "LowThreshold": 10,
            "MonitorProcessID": 1,
            "Name": "tomcat8.exe",
            "NodeID": "06e8a3d9",
            "ProcessPath": "C:\Program Files (x86)\NECYUMF\Operations\Tomcat\bin\tomcat8.exe",
            "StartCommand": "C:\Program Files (x86)\NECYUMF\Operations\Tomcat\bin\startup.bat",
            "StartDirectory": "C:\Program Files (x86)\NECYUMF\Operations\Tomcat\bin",
            "StartOption": "",
            "StopCommand": "",
            "StopDirectory": "",
            "StopOption": "",
            "Type": 0
        }
    ]
}

```

```

        ],
        "Manager": {
            "ErrorMessage": "",
            "Name": "localhost",
            "Status": 200,
            "StatusCode": 200
        }
    }
}

```

4.4.9 Obtaining the list of the process being started up

1. Process overview

Obtain the list of the process that can be monitored of the specified agent.

2. HTTP method

GET

3. URL

/umf/fw/process/object/**AgentName**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The list of the process being started up has been obtained successfully.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(ROOT)	object	Root object	-
Process	object[]	Array of the process being started up	-
Process[n].Name	string	Process name	Up to 64 characters

Parameter	Type	Description	Valid value
Process[n].MonitorProcessID	number	Process ID	-
Process[n].ParentProcessID	number	Parent process ID	-
Process[n].CommandLine	string	Path for command line monitoring	Up to 256 characters
Process[n].ProcessPath	string	Path for process path monitoring	Up to 256 characters
Process[n].UserName	string	User name	Up to 64 characters
Process[n].Priority	number	Priority	-
Process[n].StartTime	string	Startup time	"YYYY/mm/DD/ HH:MM:SS" format * An empty string is returned if the startup time cannot be obtained.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/process/object/AgentHost HTTP/1.1
x-fw-api-version: 1.0
Date: Tue, 15 Mar 2016 23:50:51 GMT
Authorization: SharedKeyLite 16ubpcPb793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:8y/gNzlatNwnX0auC0ktnRxxcEz4LDKdFvAGWI071R0=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Transfer-Encoding: chunked
Date: Tue, 15 Mar 2016 23:46:55 GMT

{
  "Process": [
    {
      "Process": {
        "MonitorProcessID": 12345,
        "ParentProcessID": 1234567890,
        "CommandLine": "/path/to/command",
        "ProcessPath": "/path/to/process",
        "UserName": "user",
        "Priority": 10,
        "StartTime": "2016/03/15 12:00:00"
      }
    }
  ]
}
```

```

    "CommandLine": "System Idle Process",
    "MonitorProcessID": 0,
    "Name": "System Idle Process",
    "ParentProcessID": 0,
    "Priority": 0,
    "ProcessPath": "System Idle Process",
    "StartTime": "",
    "UserName": "SYSTEM"
},
{
    "CommandLine": "System",
    "MonitorProcessID": 4,
    "Name": "System",
    "ParentProcessID": 0,
    "Priority": 8,
    "ProcessPath": "System",
    "StartTime": "",
    "UserName": "SYSTEM"
},
{
    "CommandLine": "$\"C:/Program Files (x86)/NEC/UMF/Operations/Manager/bin/dbms1/bin/postgres.exe\" \"$--forkbackend$\" \"$4444$\"",
    "MonitorProcessID": 2196,
    "Name": "postgres.exe",
    "ParentProcessID": 4040,
    "Priority": 8,
    "ProcessPath": "C:¥¥Program Files (x86)¥¥NEC¥¥UMF¥¥Operations¥¥Manager¥¥bin¥¥dbms1¥¥bin¥¥postgres.exe",
    "StartTime": "2016/03/15 19:12:42",
    "UserName": "SYSTEM"
},
{
    "CommandLine": "$\"C:¥¥Program Files (x86)¥¥NEC¥¥UMF¥¥Operations¥¥Agent¥¥bin¥¥SysMonAgt.exe$\"",
    "MonitorProcessID": 2344,
    "Name": "SysMonAgt.exe",
    "ParentProcessID": 476,
    "Priority": 8,
    "ProcessPath": "C:¥¥Program Files (x86)¥¥NEC¥¥UMF¥¥Operations¥¥Agent¥¥bin¥¥SysMonAgt.exe",
    "StartTime": "2016/03/15 19:12:36",
    "UserName": "SYSTEM"
},
{
    "CommandLine": "$\"C:¥¥Program Files (x86)¥¥NEC¥¥UMF¥¥Operations¥¥Tomcat¥¥bin¥¥tomcat8.exe$\" //RS//ServiceGovernor",
    "MonitorProcessID": 3988,
    "Name": "tomcat8.exe",
    "ParentProcessID": 476,
    "Priority": 8,
    "ProcessPath": "C:¥¥Program Files (x86)¥¥NEC¥¥UMF¥¥Operations¥¥Tomcat¥¥bin¥¥tomcat8.exe",
    "StartTime": "2016/03/15 09:18:05",
    "UserName": "SYSTEM"
},
{
    "CommandLine": "$\"C:¥¥Program Files (x86)¥¥NEC¥¥UMF¥¥Operations¥¥Manager¥¥bin¥¥SysMonMgr.exe$\"",

```

```

        "MonitorProcessID": 1848,
        "Name": "SysMonMgr.exe",
        "ParentProcessID": 476,
        "Priority": 8,
        "ProcessPath": "C:\Program Files (x86)\NECUMF\Operations\Manager\bin\SysMonMgr.exe",
        "StartTime": "2016/03/15 19:12:40",
        "UserName": "SYSTEM"
    },
    {
        "CommandLine": "\"C:\Program Files (x86)\NECUMF\Operations\Svc\bin\SysMonSvc.exe\"",
        "MonitorProcessID": 3224,
        "Name": "SysMonSvc.exe",
        "ParentProcessID": 2360,
        "Priority": 8,
        "ProcessPath": "C:\Program Files (x86)\NECUMF\Operations\Svc\bin\SysMonSvc.exe",
        "StartTime": "2016/03/15 19:12:42",
        "UserName": "Administrator"
    }
],
"Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
}
}

```

4.5 Windows service monitoring

4.5.1 Obtaining the Windows service monitoring tree configuration

1. Process overview

Obtain the Windows service monitoring tree information of the specified agent.

2. HTTP method

GET

3. URL

/umf/fw/ntservice/group/**AgentName**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The Windows service monitoring tree configuration has been obtained successfully.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Agent	object[]	Array of agent information	-
Agent[n].Name	string	Agent name	Up to 64 characters
Agent[n].NodeID	string	Management ID of the agent	8 digits in hexadecimal
Agent[n].ServiceGroup	object[]	Array of Windows service groups	
Agent[n].ServiceGroup[m].Name	string	Windows service group name	Up to 64 characters
Agent[n].ServiceGroup[m].NodeID	string	Management ID of the Windows service group	8 digits in hexadecimal
Agent[n].ServiceGroup[m].Service	object[]	Windows service object to be monitored	-
Agent[n].ServiceGroup[m].Service[l].Name	string	Windows service display name	Up to 256 characters
Agent[n].ServiceGroup[m].Service[l].ServiceName	string	Windows service name	Up to 256 characters
Agent[n].ServiceGroup[m].Service[l].NodeID	string	Management ID of the service being monitored	8 digits in hexadecimal
Agent[n].ServiceGroup[m].Service[l].Severity	number	Severity	-
Agent[n].ServiceGroup[m].ServiceGroup	object[]	Array of Windows service groups	This is a recursive structure with the same structure as ServiceGroup object described above.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
GET /umf/fw/ntservice/group/AgentHost HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 01:22:53 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:BFV85n1PWkZxmO9N+NQghbyRlisOCEHoHgrHl2AEZE=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 338
Date: Wed, 16 Mar 2016 01:18:57 GMT

{
    "Agent": [
        {
            "Name": "AgentHost",
            "NodeID": "06e7e015",
            "ServiceGroup": [
                {
                    "Name": "NTServiceGroupA",
                    "NodeID": "56e7e053",
                    "Service": [
                        {
                            "Name": "Wfdb_wfdb1",
                            "NodeID": "56e8b32b",
                            "ServiceName": "Wfdb_wfdb1",
                            "Severity": 276
                        }
                    ]
                },
                {
                    "Name": "APServerMonitor",
                    "NodeID": "06e8b3be"
                }
            ]
        },
        {
            "Manager": {
                "ErrorMessage": "",
                "Name": "localhost",
                "Status": 200,
                "StatusCode": 200
            }
        }
    ]
}
```

```

        }
    }
```

4.5.2 Obtaining the Windows service monitoring settings

1. Process overview

Obtain the Windows service monitoring setting information of the specified service group and service.

2. HTTP method

```
GET
```

3. URL

```
/umf/fw/ntservice/monitor/AgentName/NodeID?ManagerName=ManagerName
```

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the Windows service group to be obtained or the management ID of the Windows service monitoring setting in **NodeID**.

If the management ID of the Windows service group is specified in **NodeID**, all information about monitoring service information located under the specified group is output .

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The Windows service monitoring setting information has been obtained successfully.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified service group or service does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Service	object[]	Array of Windows services to be monitored	-
Service[n].NodeID	string	Management ID of the service being monitored	Eight-digit hexadecimal character

Parameter	Type	Description	Valid value
Service[n].Name	string	Windows service display name	Up to 256 characters
Service[n].ServiceName	string	Windows service name	Up to 256 characters
Service[n].Startup	number	Type of startup	1: System 2: Auto 3: Manual 4: Invalid 0: Unknown * 2: Auto for services that do not exist
Service[n].Status	number	Service status	1: Stop 2: Start process is being executed 3: Stop process is being executed 4: Start 5: Restart process is being executed 6: Suspension process is being executed 7: Suspended 0: Unknown
Service[n].LogonName	string	Logon name	Up to 64 characters * Blank characters are specified for services that do not exist
Service[n].Description	string	Service description	Up to 512 characters * Blank characters are specified for services that do not exist
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/ntservice/monitor/AgentHost/06e8b3be HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 02:26:02 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:+91mNG0TKPULdIkvaq99YC5z1vltmM9GtoZyHRj1Ogw=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 310
Date: Wed, 16 Mar 2016 02:22:07 GMT

{
    "Service": [
        {
            "Description": "Apache Tomcat 8.0.30 Server - http://tomcat.apache.org/",
            "LogonName": "LocalSystem",
            "Name": "Apache Tomcat 8.0 ServiceGovernor",
            "NodeID": "06e8c03c",
            "ServiceName": "ServiceGovernor",
            "Startup": 2,
            "Status": 4
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}

```

4.5.3 Adding the Windows service group

1. Process overview

Add the Windows service group.

2. HTTP method

POST

3. URL

/umf/fw/ntservice/group/**AgentName**/**NodeID**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the node ID (agent/group) to be added in **NodeID**.

Tip

When specifying the node ID of the agent, use NodeID obtained in "["4.5.1 Obtaining the Windows service monitoring tree configuration \(page 149\)"](#)".

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Name	string	Monitoring group name to be added	No	Up to 64 characters * Only group nodes where Windows service monitoring for the child nodes is not set can be added.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring group has been added successfully.
400	Bad Request	The node to be added is the group node where Windows service monitoring for the child nodes is set. The monitoring group name to be added is not specified. The management ID for objects other than agent/group is specified as the node ID (agent/group) to be added.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified node does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	Management ID of the added monitoring group	8 digits in hexadecimal
Name	string	Added monitoring group name	Up to 64 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	-
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* A group with the same name as the existing monitoring group can be registered.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/ntservice/group/AgentHost/06e7e015 HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 01:19:38 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:7JnAu6y8N/yE3HdBeCn8v1/r5kF18sf/r7QjX8U3oKA=
Host: 192.168.21.4:12080
Content-Length: 58

{
  "Name": "APServerMonitor",
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 125
Date: Wed, 16 Mar 2016 01:15:42 GMT

{
  "Name": "APServerMonitor",
  "NodeID": "06e8b3be",
  "Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
  }
}
```

4.5.4 Deleting the Windows service group

1. Process overview

Delete the specified Windows service group.

The Windows service monitoring settings located under the monitoring group are also deleted.

2. HTTP method

DELETE

3. URL

/umf/fw/ntservice/group/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the monitoring group to be deleted in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring group has been deleted successfully.
400	Bad Request	The management ID for other groups is specified as the management ID of the monitoring group to be deleted.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified monitoring group does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	Management ID of the deleted monitoring group	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
DELETE /umf/fw/ntservice/group/AgentHost/06e8b3be HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 02:39:48 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:rwdBE++skAKhIJQ1sWleqXN5pgxzBVkVheVpyiz4TtE=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 100
Date: Wed, 16 Mar 2016 02:35:52 GMT

{
    "NodeID": "06e8b3be",
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.5.5 Updating the Windows service group

1. Process overview

Update the specified Windows service group.

2. HTTP method

PUT

3. URL

/umf/fw/ntservice/group/**AgentName**/**NodeID**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the node ID (monitoring group node) to be updated in **NodeID**.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Name	string	Monitoring group name	No	Up to 64 characters
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring group has been updated successfully.
400	Bad Request	The monitoring group name is not specified. The management ID for groups other than the monitoring group is specified as the node ID (monitoring group node) to be updated.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified node does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	Management ID of the updated monitoring group	8 digits in hexadecimal
Name	string	Updated monitoring group name	Up to 64 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* A group with the same name as the existing monitoring group can be registered.

* If the monitoring group information (Name) is not updated, the monitoring group information (NodeID, Name) is not output.

* If the same NodeID is specified for more than one setting, the setting registered later is valid, and an error does not occur.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
PUT /umf/fw/ntservice/group/AgentHost/56e7e053 HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 01:26:20 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:BfnNuIvAY6hoMo3kvEuk1xVsi3UAfzsNsnYKIK91Ou8=
Host: 192.168.21.4:12080
Content-Length: 52

{
  "Name": "DBMonitor",
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 119
Date: Wed, 16 Mar 2016 01:22:24 GMT

{
  "Name": "DBMonitor",
  "NodeID": "56e7e053",
  "Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
  }
}
```

4.5.6 Adding the Windows service monitoring settings

1. Process overview

Add the Windows service monitoring settings under the specified Windows service group.

2. HTTP method

POST

3. URL

```
/umf/fw/ntservice/monitor/AgentName/NodeID/add
```

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the Windows service group to be monitored in **NodeID**.

* You can specify a group node to be added only if that node does not have any child node which is set as a group node.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Service	object[]	Array of Windows services to be monitored	No	-
Service[n]Name	string	Windows service display name	No	Up to 256 characters * To be updated to the actual service display name at the start of monitoring
Service[n]ServiceName	string	Windows service name	No	Up to 256 characters
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The Windows service monitoring setting has been added successfully.
400	Bad Request	The node to be added is the group node where the group nodes are set as child nodes. The Windows service display name is not specified. The Windows service name is not specified. The management ID for groups other than the Windows service group is specified as the management ID of the Windows service group to be monitored.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The management ID of the specified Windows service group to be monitored does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value												
(Root)	object	Root object	-												
NodeID	string	Management ID of the Windows service group to be added	8 digits in hexadecimal												
Service	object[]	Array of Windows service information to be added	* Only the added Windows services are enumerated.												
Service[n].NodeID	string	Management ID of the Windows service to be added	8 digits in hexadecimal												
Service[n].Name	string	Windows service display name	Up to 256 characters												
Service[n].ServiceName	string	Windows service name	Up to 256 characters												
Service[n].Startup	number	Type of startup	<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>1</td><td>System</td></tr> <tr> <td>2</td><td>Auto</td></tr> <tr> <td>3</td><td>Manual</td></tr> <tr> <td>4</td><td>Invalid</td></tr> <tr> <td>0</td><td>Unknown</td></tr> </tbody> </table> <p>* 2: Auto for services that do not exist</p>	Setting value	Description	1	System	2	Auto	3	Manual	4	Invalid	0	Unknown
Setting value	Description														
1	System														
2	Auto														
3	Manual														
4	Invalid														
0	Unknown														
Service[n].Existence	boolean	Whether the service exists or not in the agent when adding	false: Does not exist. true: Exists.												
Manager	object	Manager object	-												
Manager.Name	string	Manager name	-												
Manager.ErrorMessage	string	Error messages	-												
Manager.Status	number	Communication error code	-												
Manager.StatusCode	number	Internal error code	-												

* If overlapping with the service names (ServiceName) that have already been set, the overlapping name is skipped and an error does not occur.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

Example: Adding the monitoring definition setting of the "ServiceGovernor" to the Windows service group of the agent "AgentHost"

- a. Obtain the topology tree configuration, and confirm the Agent name to be added.

For details, see "Obtaining the topology tree configuration (page 73)".

- b. Obtain the Windows service monitoring tree configuration, and confirm the management ID of the Windows service group to be the destination to which the monitoring definition setting is added.

For details, see "Obtaining the Windows service monitoring tree configuration (page 149)".

- c. Obtain the Windows service list, and confirm the Windows service display name and Windows service name to which the monitoring definition setting is added.

For details, see "Obtaining the Windows service list (page 167)".

- d. Add the Windows service monitoring definition setting. Specify the following parameters, and execute the request.
 - Specify "AgentHost" obtained when obtaining the topology tree configuration as AgentName of the URL of this API.
 - Specify the management ID of the Windows service group obtained when obtaining the Windows service monitoring tree configuration as NodeID of the URL of this API.
 - Specify the Windows service display name and Windows service name obtained when obtaining the Windows service list in the request Json.

[Request]

```
POST /umf/fw/ntservice/monitor/AgentHost/06e8b3be/add HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 02:12:55 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:qS4zBfEBNOTzmx638fuwtrRVPLsXAsrrX/W1oAE5K1E=
Host: 192.168.21.4:12080
Content-Length: 122

{
  "Service": [
    {
      "Name": "Apache Tomcat 8.0 ServiceGovernor",
      "ServiceName": "ServiceGovernor"
    }
  ],
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 238
```

```
Date: Wed, 16 Mar 2016 02:09:00 GMT

{
    "NodeID": "06e8b3be",
    "Service": [
        {
            "Existence": true,
            "Name": "Apache Tomcat 8.0 ServiceGovernor",
            "NodeID": "06e8c03c",
            "ServiceName": "ServiceGovernor",
            "Startup": 2
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.5.7 Deleting the Windows service monitoring settings

1. Process overview

Delete the specified Windows service monitoring settings.

2. HTTP method

POST

3. URL

/umf/fw/ntservice/monitor/**AgentName**/**NodeID**/remove

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the Windows service group including the services to be deleted in **NodeID**.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Service	object[]	Array of management IDs of the Windows services to be deleted	No	
Service[n].NodeID	string	Management ID of the Windows service to be deleted	No	8 digits in hexadecimal
Manager	object	Manager object		-

Parameter	Type	Description	Omitable	Valid value
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The Windows service monitoring setting has been deleted successfully.
400	Bad Request	The management ID of the Windows service is not specified. The management ID for groups other than the Windows service group is specified as the management ID of the Windows service group including the services to be deleted.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The management ID of the specified group does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	Management ID of the Windows service group including the services to be deleted	8 digits in hexadecimal
Service	object[]	Array of Windows services to be deleted	* Only the deleted Windows services are enumerated.
Service[n].NodeID	string	Management ID of the Windows service to be deleted	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* NodeID of a service that does not exist is skipped, and an error does not occur.

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

Example: Deleting the monitoring definition setting of the "Wfdb_wfdb1" from the Windows service group of the agent "AgentHost"

- a. Obtain the topology tree configuration, and confirm the Agent name to be deleted.

For details, see "[Obtaining the topology tree configuration \(page 73\)](#)".

- b. Confirm the management ID of the Windows service group including the Windows service to be deleted and the management ID of the Windows service to be deleted.

Obtain the Windows service monitoring tree configuration, and obtain the management ID of the Windows service group that manages the Windows services to be deleted and the management ID of the Windows service to be deleted.

For details, see "[Obtaining the Windows service monitoring tree configuration \(page 149\)](#)".

- c. Delete the Windows service monitoring definition setting. Specify the following parameters, and execute the request.

- Specify "AgentHost" obtained when obtaining the topology tree configuration as AgentName of the URL of this API.
- Specify the management ID of the Windows service group obtained when obtaining the Windows service monitoring tree configuration as NodeID of the URL of this API.
- Specify the management ID of the Windows service to be deleted obtained when obtaining the Windows service monitoring tree configuration in the request JSON.

[Request]

```
POST /umf/fw/ntservice/monitor/AgentHost/56e7e053/remove HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 02:34:49 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:eja9k6x5fqnwsLCD9ZLZUuIHZ8cMgv4/Lg7NtPKJ/+0=
Host: 192.168.21.4:12080
Content-Length: 67

{
    "Service": [
        {
            "NodeID": "56e8b32b"
        }
    ],
    "Manager": {
        "Name": "localhost"
    }
}
```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 134
Date: Wed, 16 Mar 2016 02:30:54 GMT

{
    "NodeID": "56e7e053",
    "Service": [
        {
            "NodeID": "56e8b32b"
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}

```

4.5.8 Obtaining the Windows service list

1. Process overview

Obtain the Windows service list that can monitor the specified Windows service group.

2. HTTP method

GET

3. URL

/umf/fw/ntservice/object/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the Windows service group to be obtained in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The Windows service list has been obtained successfully.
404	Not Found	The agent name is not specified.

HTTP status code	Meaning	Description
		When the specified agent is stopped The specified host does not exist. The specified manager does not exist. The management ID for groups other than the Windows service group is specified as the management ID of the Windows service group to be obtained.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Service	object[]	Array of Windows services	-
Service[n].Name	string	Windows service display name	Up to 256 characters
Service[n].ServiceName	string	Windows service name	Up to 256 characters
Service[n].NodeID	string	Management ID of the service being monitored	Eight-digit hexadecimal character Secure a space for an object not to be monitored.
Service[n].Startup	number	Type of startup	1: System 2: Auto 3: Manual 4: Invalid 0: Unknown
Service[n].Status	number	Service status	1: Stop 2: Start process is being executed 3: Stop process is being executed 4: Start 5: Restart process is being executed 6: Suspension process is being executed 7: Suspended 0: Unknown
Service[n].LogonName	string	Logon name	Up to 64 characters
Service[n].Description	string	Service description	Up to 512 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
GET /umf/fw/ntservice/object/AgentHost/06e8b3be HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 01:34:45 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:CYR33UZPnUucupVJNIdQY+p3+IR+UMi7jGDFK+AUf10=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Transfer-Encoding: chunked
Date: Wed, 16 Mar 2016 01:30:49 GMT

{
    "Service": [
        {
            "Description": "",
            "LogonName": "LocalSystem",
            "Name": "MasterScope UMF Operations Manager_1",
            "NodeID": "",
            "ServiceName": "MasterScope UMF Operations Manager_1",
            "Startup": 2,
            "Status": 4
        },
        {
            "Description": "Apache Tomcat 8.0.30 Server - http://tomcat.apache.org/",
            "LogonName": "LocalSystem",
            "Name": "Apache Tomcat 8.0 ServiceGovernor",
            "NodeID": "",
            "ServiceName": "ServiceGovernor",
            "Startup": 2,
            "Status": 4
        },
        {
            "Description": "",
            "LogonName": "LocalSystem",
            "Name": "MasterScope UMF Operations Agent_1",
            "NodeID": "",
            "ServiceName": "MasterScope UMF Operations Agent_1",
            "Startup": 2,
            "Status": 4
        },
        {
            "Description": "",
            "LogonName": "LocalSystem",
            "Name": "MasterScope UMF Operations Agent_1",
            "NodeID": "",
            "ServiceName": "MasterScope UMF Operations Agent_1",
            "Startup": 2,
            "Status": 4
        }
    ]
}
```

```

        "Description": "",
        "LogonName": "LocalSystem",
        "Name": "Wfdb_wfdb1",
        "NodeID": "",
        "ServiceName": "Wfdb_wfdb1",
        "Startup": 2,
        "Status": 4
    }
],
"Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
}
}

```

4.6 Performance monitoring

4.6.1 Obtaining the performance monitoring tree configuration

1. Process overview

Obtain the performance monitoring list of the specified agent.

2. HTTP method

GET

3. URL

/umf/fw/performance/monitor/**AgentName**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The performance monitoring tree configuration has been obtained successfully.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Agent	object[]	Array of the agent information	-
FWInfo[n].Name	string	Agent name	Up to 64 characters
Agent[n].NodeID	string	Node ID	8 digits in hexadecimal
Agent[n].Object	object[]	Array of the object information being monitored	-
Agent[n].Object[m].NodeID	string	Management ID of the object being monitored	8 digits in hexadecimal
Agent[n].Object[m].ObjectType	number	Object type	0: With an instance 1: Without an instance
Agent[n].Object[m].Name	string	Object name	Up to 128 characters
Agent[n].Object[m].ServiceID	number	ID of the collection service that provides the counter	-
Agent[n].Object[m].Instance	object[]	Array of the instance information being monitored	* To be output only if the object type is set to 0.
Agent[n].Object[m].Instance[i].NodeID	string	Management ID of the instance being monitored	8 digits in hexadecimal
Agent[n].Object[m].Instance[i].Name	string	Instance name	Up to 128 characters
Agent[n].Object[m].Instance[i].Counter	object[]	Array of the counter information being monitored	-
Agent[n].Object[m].Instance[i].Counter[o].NodeID	string	Management ID of the counter being monitored	8 digits in hexadecimal
Agent[n].Object[m].Instance[i].Counter[o].Name	string	Counter name	Up to 128 characters
Agent[n].Object[m].Instance[i].Counter[o].Severity	number	Severity	-
Agent[n].Object[m].Counter	object[]	Array of the counter information being monitored	-
Agent[n].Object[m].Counter[i].NodeID	string	Management ID of the counter being monitored	8 digits in hexadecimal
Agent[n].Object[m].Counter[i].Name	string	Counter name	Up to 128 characters
Agent[n].Object[m].Counter[i].Severity	number	Severity	-
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-

Parameter	Type	Description	Valid value
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0

- Newly added.

8. JSON example

[Request]

```
GET /umf/fw/performance/monitor/AgentHost HTTP/1.1
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 04:05:06 GMT
Authorization: SharedKeyLite 16ubpcPb793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:pAEovNPjViJ+cYu0S3Ii3XXRvQESaZ3iCvVyWkEFNhI=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 514
Date: Fri, 18 Mar 2016 04:01:13 GMT

{
  "Agent": [
    {
      "Name": "AgentHost",
      "NodeID": "06e7e015",
      "Object": [
        {
          "Instance": [
            {
              "Counter": [
                {
                  "Name": "% User Time",
                  "NodeID": "56e911ba",
                  "Severity": 277
                }
              ],
              "Name": "_Total",
              "NodeID": "56e911b4"
            }
          ],
          "Name": "Processor",
          "NodeID": "56e7e065",
          "ObjectType": 0,
          "ServiceID": 21
        },
        ...
      ]
    }
  ]
}
```

```

        {
            "Instance": [
                {
                    "Name": "postgres.exe",
                    "NodeID": "56eb8dc9"
                }
            ],
            "Name": "Extend Process",
            "NodeID": "06e92882",
            "ObjectType": 0,
            "ServiceID": 106
        }
    ]
},
{
    "Name": "ProbeHost",
    "NodeID": "07f2fd70",
    "Object": [
        {
            "Instance": [
                {
                    "Name": "DNSserver",
                    "NodeID": "57f3095d"
                }
            ],
            "Name": "Response - DNS",
            "NodeID": "57f304a5",
            "ObjectType": 0,
            "ServiceID": 147
        },
        {
            "Instance": [
                {
                    "Name": "FTPserver",
                    "NodeID": "57f30a39"
                }
            ],
            "Name": "Response - FTP",
            "NodeID": "57f30479",
            "ObjectType": 0,
            "ServiceID": 147
        },
        {
            "Instance": [
                {
                    "Name": "Mailserver",
                    "NodeID": "57f30bdb"
                }
            ],
            "Name": "Response - Mail",
            "NodeID": "57f30478",
            "ObjectType": 0,
            "ServiceID": 147
        },
        {
            "Instance": [
                {
                    "Name": "TCPserver",
                    "NodeID": "57f30c00"
                }
            ],
            "Name": "Response - TCP",
            "NodeID": "57f3047a",
            "ObjectType": 0,
            "ServiceID": 147
        }
    ]
}

```

```

        "NodeID": "57f30c4a"
    }
],
"Name": "Response - TCP",
"NodeID": "57f30477",
"ObjectType": 0,
"ServiceID": 147
},
{
    "Instance": [
        {
            "Name": "APIConsoleService",
            "NodeID": "57f30e49"
        }
    ],
    "Name": "Response - Web Scenario",
    "NodeID": "57f30476",
    "ObjectType": 0,
    "ServiceID": 147
}
]
}
],
"Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
}
}
}

```

4.6.2 Obtaining the monitoring object information

1. Process overview

Obtain the monitoring object information of the specified agent.

2. HTTP method

GET

3. URL

/umf/fw/performance/object/**AgentName**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring object settings have been obtained successfully.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Object	object[]	Array of the monitoring object information	-
Object[n].NodeID	string	Management ID of the monitoring object	8 digits in hexadecimal An empty string is set if the object is not monitored.
Object[n].ObjectType	number	Object type	0: With an instance 1: Without an instance
Object[n].Name	string	Object name	-
Object[n].ServiceID	number	ID of the collection service that provides the counter	-
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/performance/object/AgentHost HTTP/1.1
x-fw-api-version: 1.0
Date: Wed, 16 Mar 2016 08:04:01 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:i2xoocBPs+Q2ALrGoOnGElaTfbfxBvMhOZaou1MG290=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Transfer-Encoding: chunked
Date: Wed, 16 Mar 2016 08:00:07 GMT

{
  "Object": [
    {
      "Name": "Database",
      "NodeID": "",
      "ObjectType": 0,
      "ServiceID": 21
    },
    {
      "Name": "LogicalDisk",
      "NodeID": "",
      "ObjectType": 0,
      "ServiceID": 21
    },
    {
      "Name": "PhysicalDisk",
      "NodeID": "",
      "ObjectType": 0,
      "ServiceID": 21
    },
    {
      "Name": "Server",
      "NodeID": "",
      "ObjectType": 1,
      "ServiceID": 21
    },
    {
      "Name": "Browser",
      "NodeID": "",
      "ObjectType": 1,
      "ServiceID": 21
    },
    {
      "Name": "Cache",
      "NodeID": "",
      "ObjectType": 1,
      "ServiceID": 21
    },
    {
      "Name": "Processor",
      "NodeID": "56e7e065",
      "ObjectType": 0,
      "ServiceID": 21
    },
    {
      "Name": "Memory",
      "NodeID": "",
      "ObjectType": 1,

```

```

        "ServiceID": 21
    },
    {
        "Name": "Objects",
        "NodeID": "",
        "ObjectType": 1,
        "ServiceID": 21
    },
    {
        "Name": "System",
        "NodeID": "",
        "ObjectType": 1,
        "ServiceID": 21
    },
    {
        "Name": "Process",
        "NodeID": "",
        "ObjectType": 0,
        "ServiceID": 21
    },
    {
        "Name": "Thread",
        "NodeID": "",
        "ObjectType": 0,
        "ServiceID": 21
    },
    {
        "Name": "VM Memory",
        "NodeID": "",
        "ObjectType": 1,
        "ServiceID": 21
    },
    {
        "Name": "Extend Process",
        "NodeID": "",
        "ObjectType": 0,
        "ServiceID": 106
    }
],
"Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
}
}

```

4.6.3 Adding the monitoring object settings

1. Process overview

Add the monitoring object settings to the specified agent.

Of the object information acquired by getting the performance monitoring tree configuration, the object whose Agent[n].Object[m].ServiceID is 147 is excluded.

2. HTTP method

POST

3. URL

/umf/fw/performance/object/**AgentName**/add

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Object	object[]	Array of the object information	No	-
Object[n].Name	string	Object name to be added	No	Up to 128 characters
Object[n].ServiceID	number	ID of the collection service that provides the counter	No	-
Object[n].ObjectType	number	Object type	No	0: With an instance 1: Without an instance
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring object settings have been added successfully.
400	Bad Request	The object information is not specified. The object name to be added is not specified. The ID of the collection service that provides the counter is not specified. The object type is not specified.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Object	object[]	Array of the object information to be added	* Only the added objects are enumerated.

Parameter	Type	Description	Valid value
Object[n].NodeID	string	Management ID of the object to be added	8 digits in hexadecimal
Object[n].Name	string	Object name	Up to 128 characters
Object[n].Existence	boolean	Whether the object exists or not in the agent when adding	false: Does not exist. true: Exists.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

- * If more than one request of the same specified object name exists, the setting registered later is valid.
- * If overlapping with the object names that have already been set, the overlapping request is skipped and an error does not occur.
- * The objects that do not exist are also registered.

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/performance/object/AgentHost/add HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 04:34:39 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:vR2J23LQnFUSCAHmGTvi0v/x46oUx8qU0nyZ5NzRMg=
Host: 192.168.21.4:12080
Content-Length: 101

{
  "Object": [
    {
      "Name": "LogicalDisk",
      "ObjectType": 0,
      "ServiceID": 21
    }
  ],
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
```

```

Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 151
Date: Fri, 18 Mar 2016 04:30:47 GMT

{
    "Object": [
        {
            "Existence": true,
            "Name": "LogicalDisk",
            "NodeID": "06eb8477"
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}

```

4.6.4 Deleting the monitoring object settings

1. Process overview

Delete the monitoring object settings located under the specified agent.

Of the object information acquired by getting the performance monitoring tree configuration, the object whose Agent[n].Object[m].ServiceID is 147 is excluded.

2. HTTP method

POST

3. URL

/umf/fw/performance/object/**AgentName**/remove

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

4. Parameter

Parameter	Type	Description	Omittable	Valid value
(Root)	object	Root object	No	-
Object	object[]	Array of the objects to be deleted	No	-
Object[n].NodeID	string	Management ID of the object to be deleted	No	8 digits in hexadecimal

Parameter	Type	Description	Omitable	Valid value
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring object settings have been deleted successfully.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Object	object[]	Array of the object information to be deleted	* Only the deleted objects are enumerated.
Object[n].NodeID	string	Management ID of the object to be deleted	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

- * If the instance/counter being monitored is set under a deleted object, the lower instance/counter is deleted (deleted from the tree configuration) while it is being monitored.
- * NodeID that does not exist is skipped and an error does not occur.

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/performance/object/AgentHost/remove HTTP/1.1
content-type: application/json; charset=utf-8
```

```
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 05:02:08 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:WhvWQJrRhb0dp iwD/RdFkzhfdHJexaUMeSZTaye+l bU=
Host: 192.168.21.4:12080
Content-Length: 66

{
    "Object": [
        {
            "NodeID": "56e7e065"
        }
    ],
    "Manager": {
        "Name": "localhost"
    }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 113
Date: Fri, 18 Mar 2016 04:58:15 GMT

{
    "Object": [
        {
            "NodeID": "56e7e065"
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.6.5 Obtaining the monitoring instance information

1. Process overview

Obtain the list of the instance that can be monitored of the specified monitoring object.
 In the object information obtained when obtaining the performance monitoring tree configuration, only the object in which "Agent[n].Object[m].ServiceID" is set to 21 must be obtained.

2. HTTP method

GET

3. URL

```
/umf/fw/performance/instance/AgentName/NodeID?ManagerName=ManagerName
```

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the object to be obtained as **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The instance information has been obtained successfully.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified object to be monitored does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Instance	object[]	Instance information being monitored	-
Instance[n].NodeID	string	Management ID of the instance being monitored	8 digits in hexadecimal An empty string is set if the instance is not monitored.
Instance[n].Name	string	Instance name	Up to 128 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
GET /umf/fw/performance/instance/AgentHost/06eb8477 HTTP/1.1
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 04:36:54 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:5is19i5EgUi+6j15JGwIb6TERHqILxRwFMgqI8Te+8I=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 149
Date: Fri, 18 Mar 2016 04:33:02 GMT

{
    "Instance": [
        {
            "Name": "_Total",
            "NodeID": ""
        },
        {
            "Name": "C:",
            "NodeID": ""
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.6.6 Adding the monitoring instance settings

1. Process overview

Add the monitoring instance settings to the specified monitoring object.

(The higher objects must be monitored here.)

In the object information obtained when obtaining the performance monitoring tree configuration, only the object in which "Agent[n].Object[m].ServiceID" is set to 21 must be added.

2. HTTP method

```
POST
```

3. URL

```
/umf/fw/performance/instance/AgentName/NodeID/add
```

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the object ID to be added as **NodeID**.

4. Parameter

Parameter	Type	Description	O m i tta b l e	Valid value
(Root)	object	Root object	No	-
Instance	object[]	Array of the instance information to be added	No	-
Instance[n].Name	string	Name of the instance to be added	No	Up to 128 characters
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring instance settings have been added successfully.
400	Bad Request	The instance name to be added is not specified. The resource object out of the Performance service management target is specified.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified object does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	Object ID to be added	8 digits in hexadecimal
Instance	object[]	Array of the instance information to be added	* Only the added instances are enumerated.
Instance[n].NodeID	string	Management ID of the instance to be added	8 digits in hexadecimal
Instance[n].Name	string	Instance name	Up to 128 characters

Parameter	Type	Description	Valid value
Instance[n].Existence	boolean	Whether the instance exists or not in the object when adding	false: Does not exist. true: Exists.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

- * If more than one request of the same specified instance name exists, the setting registered later is valid.
- * If overlapping with the instances that have already been set, the overlapping request is skipped and an error does not occur.
- * The instances that do not exist are also registered.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/performance/instance/AgentHost/06eb8477/add HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 04:39:02 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:+8mLDQLPw2RJb91qUJtcA7r3DTzMIEjlzikogoRvthA=
Host: 192.168.21.4:12080
Content-Length: 65

{
  "Instance": [
    {
      "Name": "_Total"
    }
  ],
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 168
```

```
Date: Fri, 18 Mar 2016 04:35:10 GMT

{
    "NodeID": "06eb8477",
    "Instance": [
        {
            "Existence": true,
            "Name": "_Total",
            "NodeID": "06eb857e"
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.6.7 Deleting monitoring instance settings

1. Process overview

Delete specified monitoring instance settings.
Of the object information acquired by getting the performance monitoring tree configuration, the object whose Agent[n].Object[m].ServiceID is 21 is the only deletion target object.

2. HTTP method

POST

3. URL

/umf/fw/performance/instance/**AgentName**/**NodeID**/remove

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

In **NodeID**, specify the parent node ID of the deletion target instance.

4. Parameter

Parameter	Type	Description	O m i tta bl e	Valid value
(Root)	object	Root object	No	-
Instance	object[]	Array of the information of the deletion target instance	No	-
Instance[n].NodeID	string	Management ID of the deletion target instance	No	8 digits in hexadecimal
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring instance settings have been successfully deleted.
404	Not Found	The specified agent does not exist. When the specified agent is stopped When the parent node ID of the specified deletion target instance does not exist The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	Parent node ID of the deletion target instance	8 digits in hexadecimal
Instance	object[]	Array of the information of the deletion target instance	* Only the deleted instances are listed.
Instance[n].NodeID	string	Management ID of the deletion target instance	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* If a monitored counter is set under a deleted instance, the monitoring of that lower-level counter is also deleted (from the tree configuration).

* NodeID of a nonexistent instance is skipped, and no error occurs.

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/performance/instance/AgentHost/56e7e065/remove HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 04:59:50 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:3wgUd0KA1R0oFB+/M1kHb13zs4BUIdVRS2W0tso2FE0=
```

```

Host: 192.168.21.4:12080
Content-Length: 70

{
    "Instance": [
        {
            "NodeID": "56e911b4"
        }
    ],
    "Manager": {
        "Name": "localhost"
    }
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 135
Date: Fri, 18 Mar 2016 04:55:57 GMT

{
    "NodeID": "56e7e065",
    "Instance": [
        {
            "NodeID": "56e911b4"
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}

```

4.6.8 Obtaining the monitoring counter information

1. Process overview

Obtain the list of the counter that can be monitored of the object or instance under the specified agent.

Of the object information acquired by getting the performance monitoring tree configuration, the following objects are excluded.

- Response-Mail
- Response-Dns
- Response-WebScenario

2. HTTP method

GET

3. URL

```
/umf/fw/performance/counter/AgentName/NodeID?ManagerName=ManagerName
```

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the object ID or instance ID to be obtained in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring counter information list has been obtained successfully.
400	Bad Request	A management ID other than the object/instance is specified as the object ID or instance ID to be obtained.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified object or instance ID to be monitored does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Counter	object[]	Array of the monitoring counter information	-
Counter[n].NodeID	string	Management ID of the monitoring counter	8 digits in hexadecimal If the monitoring counter is not to be monitored, an empty string ("") is set.
Groups[n].Name	string	Counter name	Up to 128 characters
Counter[n].Description	string	Counter description	Up to 1024 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/performance/counter/AgentHost/06eb857e HTTP/1.1
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 04:41:16 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:vZPZjGJ2cdGASyXGlHoSNILRpFc5tTzgmbF4Hog6uT0=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 5101
Date: Fri, 18 Mar 2016 04:37:24 GMT

{
  "Counter": [
    {
      "Description": "% Free Space is the percentage of total us
able space on the selected logical disk drive that was free.",
      "Name": "% Free Space",
      "NodeID": ""
    },
    {
      "Description": "% Free Megabytes displays the unallocated spac
e, in megabytes, on the disk drive in megabytes. One megabyte is equal
to 1,048,576 bytes.",
      "Name": "Free Megabytes",
      "NodeID": ""
    },
    {
      "Description": "Current Disk Queue Length is the number of
requests outstanding on the disk at the time the performance data is
collected. It also includes requests in service at the time of the col
lection. This is a instantaneous snapshot, not an average over the tim
e interval. Multi-spindle disk devices can have multiple requests that
are active at one time, but other concurrent requests are awaiting se
rvice. This counter might reflect a transitory high or low queue lengt
h, but if there is a sustained load on the disk drive, it is likely th
at this will be consistently high. Requests experience delays proporti
onal to the length of this queue minus the number of spindles on the d
isks. For good performance, this difference should average less than t
wo.",
      "Name": "Current Disk Queue Length",
      "NodeID": ""
    }
  ]
}
```

```

},
{
    "Description": "% Disk Time is the percentage of elapsed time that the selected disk drive was busy servicing read or write requests.",
    "Name": "% Disk Time",
    "NodeID": ""
},
{
    "Description": "% Disk Read Time is the percentage of elapsed time that the selected disk drive was busy servicing read requests .",
    "Name": "% Disk Read Time",
    "NodeID": ""
},
{
    "Description": "% Disk Write Time is the percentage of elapsed time that the selected disk drive was busy servicing write requests.",
    "Name": "% Disk Write Time",
    "NodeID": ""
},
{
    "Description": "Disk Transfers/sec is the rate of read and write operations on the disk.",
    "Name": "Disk Transfers/sec",
    "NodeID": ""
},
{
    "Description": "Disk Reads/sec is the rate of read operations on the disk.",
    "Name": "Disk Reads/sec",
    "NodeID": ""
},
{
    "Description": "Disk Writes/sec is the rate of write operations on the disk.",
    "Name": "Disk Writes/sec",
    "NodeID": ""
},
{
    "Description": "Disk Bytes/sec is the rate bytes are transferred to or from the disk during write or read operations.",
    "Name": "Disk Bytes/sec",
    "NodeID": ""
},
{
    "Description": "Disk Read Bytes/sec is the rate at which bytes are transferred from the disk during read operations.",
    "Name": "Disk Read Bytes/sec",
    "NodeID": ""
},
{
    "Description": "Disk Write Bytes/sec is rate at which bytes are transferred to the disk during write operations.",
    "Name": "Disk Write Bytes/sec",
    "NodeID": ""
},
}

```

```
{
    "Description": "% Idle Time reports the percentage of time
during the sample interval that the disk was idle.",
    "Name": "% Idle Time",
    "NodeID": ""
},
{
    "Description": "Split IO/Sec reports the rate at which I/O
s to the disk were split into multiple I/Os. A split I/O may result fr
om requesting data of a size that is too large to fit into a single I/
O or that the disk is fragmented.",
    "Name": "Split IO/Sec",
    "NodeID": ""
},
{
    "Description": "Showing the percentage of the allocated sp
ace.",
    "Name": "% Used Ex",
    "NodeID": ""
},
{
    "Description": "Showing the size of allocated space in kil
obytes (KB).",
    "Name": "Used Ex",
    "NodeID": ""
}
],
"Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
}
}
```

4.6.9 Adding the monitoring counter settings

1. Process overview

Add the monitoring counter settings to the specified monitoring instances.

(The higher objects must be monitored here.)

Of the object information acquired by getting the performance monitoring tree configuration, the following objects are excluded.

- Response-Mail
- Response-Dns
- Response-WebScenario

2. HTTP method

POST

3. URL

/umf/fw/performance/counter/**AgentName/NodeID**/add

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the ID (object ID or instance ID) of the parent node to be added in **NodeID**.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Counter	object[]	Array of the counter information to be added	No	-
Counter[n].Name	string	Counter name to be added	No	Up to 128 characters
Counter[n].Log	number	Log specification		0: Do not record 1: Record Default value: 0: Not recorded
Counter[n].Scale	number	Scale factor of the counter value		-10: 0.0000000001 times -9: 0.000000001 times -8: 0.00000001 times -7: 0.0000001 times -6: 0.000001 times -5: 0.00001 times -4: 0.0001 times -3: 0.001 times -2: 0.01 times -1: 0.1 times 0: Same 1: 10 times 2: 100 times 3: 1000 times 4: 10000 times 5: 100000 times 6: 1000000 times 7: 10000000 times 8: 100000000 times 9: 1000000000 times Default value: 0: Same size
Counter[n].Color	number	Display color		RGB value in decimal Default value: 0: Black
Counter[n].Width	number	Display line width		1: Narrow 2: Medium 3: Wide

Parameter	Type	Description	Omitable	Valid value
				Default value: 1: Narrow
Counter[n].MonitorType	number	Monitoring type		0: Sequential 1: Continuous 2: Average Default value: 0: Sequential
Counter[n].Count	number	Judgment count		Value in the range of 2 to 16 Specify this item when the monitoring type is other than "Sequential". When the monitoring type is "Continuous", specify the number of times the monitoring is to be performed continuously. When the monitoring type is "Average", specify the number of times the average is to be taken. Default value: 2
Counter[n].UpperError	number	Upper limit error monitoring		0: Do not monitor 1: Monitor Default value: 0: Not monitored
Counter[n].UpperErrorLimit	number	Upper limit error threshold		Value in the range of -99999999999999 to 99999999999999 Default value: 0
Counter[n].UpperWarning	number	Upper limit warning monitoring		0: Do not monitor 1: Monitor Default value: 0: Not monitored
Counter[n].UpperWarningLimit	number	Upper limit warning threshold		Value in the range of -99999999999999 to 99999999999999 Default value: 0
Counter[n].LowerWarning	number	Lower limit warning monitoring		0: Do not monitor 1: Monitor Default value: 0: Not monitored
Counter[n].LowerWarningLimit	number	Lower limit warning threshold		Value in the range of -99999999999999 to 99999999999999 Default value: 0
Counter[n].LowerError	number	Lower limit error monitoring		0: Do not monitor 1: Monitor

Parameter	Type	Description	Omitable	Valid value
				Default value: 0: Not monitored
Counter[n].LowerErrorLimit	number	Lower limit error threshold		Value in the range of -99999999999999 to 99999999999999 Default value: 0
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

* Other than the values not to be monitored, each value of the upper limit error threshold, upper warning threshold, lower warning threshold, and lower limit error threshold is valid only if the following relationship is met.

If an invalid value is set, a request error occurs.

Upper limit error threshold > Upper warning threshold > Lower warning threshold > lower limit error threshold

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring counter settings have been added successfully.
400	Bad Request	The counter name to be monitored is not specified. A management ID other than the parent node ID is specified as the ID (object ID or instance ID) of the parent node to be added.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified object or instance ID to be monitored does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	(Object or instance) ID of parent node to be added	8 digits in hexadecimal
Counter	object[]	Array of the counter information to be added	* Only the added counters are enumerated.

Parameter	Type	Description	Valid value
Counter[n].NodeID	string	Management ID of the counter to be added	8 digits in hexadecimal
Counter[n].Name	string	Counter name	Up to 128 characters
Counter[n].Log	number	Log specification	0: Do not record 1: Record
Counter[n].Scale	number	Scale factor of the counter value	-10: 0.000000001 times -9: 0.00000001 times -8: 0.0000001 times -7: 0.000001 times -6: 0.00001 times -5: 0.00001 times -4: 0.0001 times -3: 0.001 times -2: 0.01 times -1: 0.1 times 0: Same 1: 10 times 2: 100 times 3: 1000 times 4: 10000 times 5: 100000 times 6: 1000000 times 7: 10000000 times 8: 100000000 times 9: 1000000000 times
Counter[n].Color	number	Display color	RGB value in decimal
Counter[n].Width	number	Display line width	1: Narrow 2: Medium 3: Wide
Counter[n].MonitorType	number	Monitoring type	0: Sequential 1: Continuous 2: Average
Counter[n].Count	number	Judgment count	Value in the range of 2 to 16 Specify this item when the monitoring type is other than "Sequential". When the monitoring type is "Continuous", specify the number of times the monitoring is to be performed continuously. When the monitoring type is "Average", specify the number of times the average is to be taken.
Counter[n].UpperError	number	Upper limit error monitoring	0: Do not monitor 1: Monitor

Parameter	Type	Description	Valid value
Counter[n].UpperErrorLimit	number	Upper limit error threshold	Output in the case of "Upper error monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Counter[n].UpperWarning	number	Upper limit warning monitoring	0: Do not monitor 1: Monitor
Counter[n].UpperWarningLimit	number	Upper limit warning threshold	Output in the case of "Upper warning monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Counter[n].LowerWarning	number	Lower limit warning monitoring	0: Do not monitor 1: Monitor
Counter[n].LowerWarningLimit	number	Lower limit warning threshold	Output in the case of "Lower warning monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Counter[n].LowerError	number	Lower limit error monitoring	0: Do not monitor 1: Monitor
Counter[n].LowerErrorLimit	number	Lower limit error threshold	Output in the case of "Upper error monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Counter[n].Existence	boolean	Whether the counter exists or not in the object or instance when adding	false: Does not exist. true: Exists.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

- * If the same counter name is specified as more than one setting, the setting registered later is valid.
- * If overlapping with the counters that have already been set, the overlapping counter is skipped and an error does not occur.
- * The counters that do not exist are also registered.

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

Example: Adding the monitoring definition setting of the "% Processor Time" counter to the instance of the agent "AgentHost"

- a. Obtain the topology tree configuration, and confirm the Agent name to be added.
For details, see "[Obtaining the topology tree configuration \(page 73\)](#)".
- b. Obtain the performance monitoring tree configuration, and confirm the management ID of the instance to be the destination to which the monitoring definition is added.
For details, see "[Obtaining the performance monitoring tree configuration \(page 170\)](#)".
- c. Obtain the monitoring counter information, and confirm the counter name to be added as the monitoring definition setting.
For details, see "[Obtaining the monitoring counter information \(page 189\)](#)".
- d. Add the monitoring counter definition setting.
Specify the following parameters, and execute the request.
 - Specify "AgentHost" obtained when obtaining the topology tree configuration as AgentName of the URL of this API.
 - Specify the management ID of the instance obtained when obtaining the performance monitoring tree configuration as NodeID of the URL of this API.
 - Specify "% Processor Time" obtained when obtaining the monitoring counter information in the request Json.

[Request]

```
POST /umf/fw/performance/counter/AgentHost/56e911b4/add HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 08:38:47 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:rpnx/jZ7AcDPeFynSsfL5Uov8SDea7KmVlioSgGJWeM=
Host: 192.168.21.4:12080
Content-Length: 75

{
  "Counter": [
    {
      "Name": "% Processor Time"
    }
  ],
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 295
Date: Fri, 18 Mar 2016 08:34:55 GMT
```

```
{
    "NodeID": "56e911b4",
    "Counter": [
        {
            "Color": 0,
            "Existence": true,
            "Log": 0,
            "LowerError": 0,
            "LowerWarning": 0,
            "MonitorType": 0,
            "Name": "% Processor Time",
            "NodeID": "06ebbdaf",
            "Scale": 0,
            "UpperError": 0,
            "UpperWarning": 0,
            "Width": 1
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.6.10 Updating the monitoring counter settings

1. Process overview

Update the specified monitoring counter settings.

Of the object information acquired by getting the performance monitoring tree configuration, the following objects are excluded.

- Response-Mail
- Response-Dns
- Response-WebScenario

2. HTTP method

POST

3. URL

/umf/fw/performance/counter/**AgentName**/**NodeID**/update

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the ID (object ID or instance ID) of the parent node to be updated in **NodeID**.

4. Parameter

Parameter	Type	Description	O m i tta bl e	Valid value
(Root)	object	Root object	No	-

Parameter	Type	Description	Omitable	Valid value
Counter	object[]	Array of the counter information to be updated	No	-
Counter[n].NodeID	string	Counter ID to be updated	No	8 digits in hexadecimal
Counter[n].Log	number	Log specification		0: Do not record 1: Record
Counter[n].Scale	number	Scale factor of the counter value		-10: 0.000000001 times -9: 0.00000001 times -8: 0.0000001 times -7: 0.000001 times -6: 0.00001 times -5: 0.00001 times -4: 0.0001 times -3: 0.001 times -2: 0.01 times -1: 0.1 times 0: Same 1: 10 times 2: 100 times 3: 1000 times 4: 10000 times 5: 100000 times 6: 1000000 times 7: 10000000 times 8: 100000000 times 9: 1000000000 times
Counter[n].Color	number	Display color		RGB value in decimal
Counter[n].Width	number	Display line width		1: Narrow 2: Medium 3: Wide
Counter[n].MonitorType	number	Monitoring type		0: Sequential 1: Continuous 2: Average
Counter[n].Count	number	Judgment count		Value in the range of 2 to 16 Specify this item when the monitoring type is other than "Sequential". When the monitoring type is "Continuous", specify the number of times the monitoring is to be performed continuously.

Parameter	Type	Description	Omittable	Valid value
				When the monitoring type is "Average", specify the number of times the average is to be taken.
Counter[n].UpperError	number	Upper limit error monitoring		0: Do not monitor 1: Monitor
Counter[n].UpperErrorLimit	number	Upper limit error threshold		Value in the range of -99999999999999 to 99999999999999
Counter[n].UpperWarning	number	Upper limit warning monitoring		0: Do not monitor 1: Monitor
Counter[n].UpperWarningLimit	number	Upper limit warning threshold		Value in the range of -99999999999999 to 99999999999999
Counter[n].LowerWarning	number	Lower limit warning monitoring		0: Do not monitor 1: Monitor
Counter[n].LowerWarningLimit	number	Lower limit warning threshold		Value in the range of -99999999999999 to 99999999999999
Counter[n].LowerError	number	Lower limit error monitoring		0: Do not monitor 1: Monitor
Counter[n].LowerErrorLimit	number	Lower limit error threshold		Value in the range of -99999999999999 to 99999999999999
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

* Other than the values not to be monitored, each value of the upper limit error threshold, upper warning threshold, lower warning threshold, and lower limit error threshold is valid only if the following relationship is met.

If an invalid value is set, a request error occurs.

Upper limit error threshold > Upper warning threshold > Lower warning threshold > lower limit error threshold

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring counter settings have been updated successfully.
400	Bad Request	The counter information to be updated is not specified. The counter ID to be updated is not specified. A management ID other than the parent node ID is specified as the ID (object ID or instance ID) of the parent node to be updated.
404	Not Found	The specified agent does not exist. When the specified agent is stopped

HTTP status code	Meaning	Description
		The parent node (object or instance) ID to be updated is not specified. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	(Object or instance) ID of the parent node to be updated	8 digits in hexadecimal
Counter	object[]	Array of the counter information to be updated	* Only the updated counters are enumerated.
Counter[n].NodeID	string	Management ID of the counter to be updated	8 digits in hexadecimal
Counter[n].Name	string	Counter name	Up to 128 characters
Counter[n].Log	number	Log specification	0: Do not record 1: Record
Counter[n].Scale	number	Scale factor of the counter value	-10: 0.000000001 times -9: 0.00000001 times -8: 0.0000001 times -7: 0.0000001 times -6: 0.000001 times -5: 0.00001 times -4: 0.0001 times -3: 0.001 times -2: 0.01 times -1: 0.1 times 0: Same 1: 10 times 2: 100 times 3: 1000 times 4: 10000 times 5: 100000 times 6: 1000000 times 7: 10000000 times 8: 100000000 times 9: 1000000000 times
Counter[n].Color	number	Display color	RGB value in decimal
Counter[n].Width	number	Display line width	1: Narrow 2: Medium 3: Wide

Parameter	Type	Description	Valid value
Counter[n].MonitorType	number	Monitoring type	0: Sequential 1: Continuous 2: Average
Counter[n].Count	number	Judgment count	Value in the range of 2 to 16 Specify this item when the monitoring type is other than "Sequential". When the monitoring type is "Continuous", specify the number of times the monitoring is to be performed continuously. When the monitoring type is "Average", specify the number of times the average is to be taken.
Counter[n].UpperError	number	Upper limit error monitoring	0: Do not monitor 1: Monitor
Counter[n].UpperErrorLimit	number	Upper limit error threshold	Output in the case of "Upper error monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Counter[n].UpperWarning	number	Upper limit warning monitoring	0: Do not monitor 1: Monitor
Counter[n].UpperWarningLimit	number	Upper limit warning threshold	Output in the case of "Upper warning monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Counter[n].LowerWarning	number	Lower limit warning monitoring	0: Do not monitor 1: Monitor
Counter[n].LowerWarningLimit	number	Lower limit warning threshold	Output in the case of "Lower warning monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Counter[n].LowerError	number	Lower limit error monitoring	0: Do not monitor 1: Monitor
Counter[n].LowerErrorLimit	number	Lower limit error threshold	Output in the case of "Upper error monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* If the same NodeID is specified as more than one setting, the setting registered later is valid, and an error does not occur.

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/performance/counter/AgentHost/56e911b4/update HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 09:05:02 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:nxKK+750N8odUmanKveYWiWFd6PY9bn3AgNoUfiwLDk=
Host: 192.168.21.4:12080
Content-Length: 161

{
  "Counter": [
    {
      "Log": 1,
      "NodeID": "06ebbda",
      "UpperError": 1,
      "UpperErrorLimit": 100,
      "UpperWarning": 1,
      "UpperWarningLimit": 80
    }
  ],
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 327
Date: Fri, 18 Mar 2016 09:01:08 GMT

{
  "NodeID": "56e911b4",
  "Counter": [
    {
      "Color": 0,
      "Log": 1,
      "LowerError": 0,
      "LowerWarning": 0,
      "MonitorType": 0,
      "Name": "% Processor Time",
      "UpperError": 1,
      "UpperErrorLimit": 100,
      "UpperWarning": 1,
      "UpperWarningLimit": 80
    }
  ]
}
```

```

        "NodeID": "06ebbdaf",
        "Scale": 0,
        "UpperError": 1,
        "UpperErrorLimit": 100.0,
        "UpperWarning": 1,
        "UpperWarningLimit": 80.0,
        "Width": 1
    }
],
"Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
}
}

```

4.6.11 Deleting the monitoring counter settings

1. Process overview

Delete the specified monitoring counter settings.

Of the object information acquired by getting the performance monitoring tree configuration, the following objects are excluded.

- Response-Mail
- Response-Dns
- Response-WebScenario

2. HTTP method

POST

3. URL

/umf/fw/performance/counter/**AgentName**/**NodeID**/remove

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the ID (object ID or instance ID) of the parent node of the counter to be deleted in **NodeID**.

4. Parameter

Parameter	Type	Description	O m i tta bl e	Valid value
(Root)	object	Root object	No	-
Counter	object[]	Array of the counter information to be deleted	No	-
Counter[n].NodeID	string	Management ID of the counter to be deleted	No	8 digits in hexadecimal
Manager	object	Manager object		-

Parameter	Type	Description	Omitable	Valid value
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring counter settings have been deleted successfully.
400	Bad Request	A management ID other than the parent node ID is specified as the ID (object ID or instance ID) of the parent node of the counter to be deleted.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The parent node ID of the specified counter to be deleted does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	(Object or instance) ID of parent node to be deleted	8 digits in hexadecimal
Counter	object[]	Array of the counter information to be deleted	* Only the deleted counters are enumerated.
Counter[n].NodeID	string	Management ID of the counter to be deleted	8 digits in hexadecimal * Only the NodeIDs are enumerated.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* NodeID of the counter that does not exist is skipped, and an error does not occur.

7. Change history

- X-FW-API-Version : 1.0

- Newly added.

8. JSON example

Example: Deleting the monitoring definition setting of the "% User Time" for the instance of the agent "AgentHost"

- a. Obtain the topology tree configuration, and confirm the Agent name to be deleted.

For details, see "[Obtaining the topology tree configuration \(page 73\)](#)".

- b. Obtain the performance monitoring tree configuration, and confirm the management ID of the instance that manages the counter to be deleted and the management ID of the counter to be deleted.

For details, see "[Obtaining the performance monitoring tree configuration \(page 170\)](#)".

- c. Delete the monitoring counter definition setting.
Specify the following parameters, and execute the request.
 - Specify "AgentHost" obtained when obtaining the topology tree configuration as AgentName of the URL of this API.
 - Specify the management ID of the instance obtained when obtaining the performance monitoring tree configuration as NodeID of the URL of this API.
 - Specify "% User Time" obtained when obtaining the performance monitoring tree configuration in the request Json.

[Request]

```
POST /umf/fw/performance/counter/AgentHost/56e911b4/remove HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 04:57:17 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:k7Jvp5B+CYnu1ldU9nm1pil5MjAOuD+LwVPJvvUocDQ=
Host: 192.168.21.4:12080
Content-Length: 69

{
  "Counter": [
    {
      "NodeID": "56e911ba"
    }
  ],
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 134
```

```
Date: Fri, 18 Mar 2016 04:53:24 GMT

{
    "NodeID": "56e911b4",
    "Counter": [
        {
            "NodeID": "56e911ba"
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.6.12 Obtaining the monitoring counter settings

1. Process overview

Obtain the monitoring setting information corresponding to the parent node ID of the specified counter ID and counter ID.

Of the object information acquired by getting the performance monitoring tree configuration, the following objects are excluded.

- Response-Mail
- Response-Dns
- Response-WebScenario

2. HTTP method

GET

3. URL

/umf/fw/performance/monitor/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the parent node ID of the counter information to be obtained or the node ID of the counter to be obtained in **NodeID**.

If the parent node is specified in **NodeID**, only the counter information right under the specified node is output.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring counter information has been obtained successfully.

HTTP status code	Meaning	Description
400	Bad Request	A management ID other than the parent node ID/counter is specified in the parent node ID of the counter information to be obtained or the node ID of the counter to be obtained.
404	Not Found	The specified agent does not exist. When the specified agent is stopped When the specified node does not exist The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Counter	object[]	Array of the counter information being monitored	-
Counter[n].NodeID	string	Management ID of the monitoring counter	8 digits in hexadecimal
Counter[n].Name	string	Counter name	Up to 128 characters
Counter[n].Log	number	Log specification	0: Do not record 1: Record
Counter[n].Scale	number	Scale factor of the counter value	-10: 0.000000001 times -9: 0.000000001 times -8: 0.00000001 times -7: 0.0000001 times -6: 0.000001 times -5: 0.00001 times -4: 0.0001 times -3: 0.001 times -2: 0.01 times -1: 0.1 times 0: Same 1: 10 times 2: 100 times 3: 1000 times 4: 10000 times 5: 100000 times 6: 1000000 times 7: 10000000 times 8: 100000000 times 9: 1000000000 times
Counter[n].Color	number	Display color	RGB value in decimal
Counter[n].Width	number	Display line width	1: Narrow

Parameter	Type	Description	Valid value
			2: Medium 3: Wide
Counter[n].MonitorType	number	Monitoring type	0: Sequential 1: Continuous 2: Average
Counter[n].Count	number	Judgment count	Value in the range of 2 to 16 Specify this item when the monitoring type is other than "Sequential". When the monitoring type is "Continuous", specify the number of times the monitoring is to be performed continuously. When the monitoring type is "Average", specify the number of times the average is to be taken.
Counter[n].UpperError	number	Upper limit error monitoring	0: Do not monitor 1: Monitor
Counter[n].UpperErrorLimit	number	Upper limit error threshold	Output in the case of "Upper error monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Counter[n].UpperWarning	number	Upper limit warning monitoring	0: Do not monitor 1: Monitor
Counter[n].UpperWarningLimit	number	Upper limit warning threshold	Output in the case of "Upper warning monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Counter[n].LowerWarning	number	Lower limit warning monitoring	0: Do not monitor 1: Monitor
Counter[n].LowerWarningLimit	number	Lower limit warning threshold	Output in the case of "Lower warning monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Counter[n].LowerError	number	Lower limit error monitoring	0: Do not monitor 1: Monitor
Counter[n].LowerErrorLimit	number	Lower limit error threshold	Output in the case of "Upper error monitoring: 1 (Monitored)". Value in the range of -99999999999999 to 99999999999999
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-

Parameter	Type	Description	Valid value
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/performance/monitor/AgentHost/56e911b4 HTTP/1.1
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 08:52:38 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:kNtY9cOdc6AkFIR3mJaIl+h1sDoj21LrHyuRgs+j/KY=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 258
Date: Fri, 18 Mar 2016 08:48:45 GMT

{
  "Counter": [
    {
      "Color": 0,
      "Log": 0,
      "LowerError": 0,
      "LowerWarning": 0,
      "MonitorType": 0,
      "Name": "% Processor Time",
      "NodeID": "06ebbdaf",
      "Scale": 0,
      "UpperError": 0,
      "UpperWarning": 0,
      "Width": 1
    }
  ],
  "Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
  }
}
```

4.6.13 Obtaining the monitoring instance information (Ext)

1. Process overview

Obtain the list of the instance that can be monitored of the specified monitoring object.

Only the "Extend Process" that is a target of the PerformanceExt function must be obtained; Agent[n].Object[m].ServiceID of Extend Process (this is the object information obtained when obtaining the performance monitoring tree configuration) is set to 106.

2. HTTP method

GET

3. URL

/umf/fw/performance/instance/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the object to be obtained as **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The instance information has been obtained successfully.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified object to be monitored does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Instance	object[]	Instance information being monitored	-
Instance[n].Name	string	Instance name	Up to 128 characters
Instance[n].CommandLine	string	Command line	Up to 4096 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name

Parameter	Type	Description	Valid value
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/performance/instance/AgentHost/06e92882 HTTP/1.1
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 05:04:18 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:HQiRW8opOGvqREQ569KGg0B3WMvBnw7wN+oqROc2QHc=
Content-Type: application/json; charset=utf-8
Host: 192.168.21.4:12080
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 7310
Date: Wed, 16 Mar 2016 09:37:18 GMT

{
  "Instance": [
    {
      "CommandLine": "\"C:\\Windows\\system32\\ServerManager.exe\"",
      "Name": "ServerManager.exe"
    },
    {
      "CommandLine": "C:\\Windows\\System32\\svchost.exe -k LocalServiceNetworkRestricted",
      "Name": "svchost.exe"
    },
    {
      "CommandLine": "System Idle Process",
      "Name": "System Idle Process"
    },
    {
      "CommandLine": "C:\\Program Files (x86)\\Internet Explorer\\EXPLORE.EXE",
      "Name": "iexplore.exe"
    },
    {
      "CommandLine": "C:\\Program Files (x86)\\NECYUMF\\Opera"
    }
  ]
}
```

```

tions¥¥Svc¥¥bin¥¥SysMonSvc.exe"",
    "Name": "SysMonSvc.exe"
},
{
    "CommandLine": "¥"C:¥¥Program Files (x86)¥¥NEC¥¥UMF¥¥Operations¥¥Agent¥¥bin¥¥SysMonAgt.exe"",
        "Name": "SysMonAgt.exe"
},
{
    "CommandLine": "¥"C:¥¥Program Files (x86)¥¥NEC¥¥UMF¥¥Operations¥¥Manager¥¥bin¥¥SysMonMgr.exe"",
        "Name": "SysMonMgr.exe"
},
{
    "CommandLine": "¥"C:¥¥Program Files (x86)¥¥NEC¥¥UMF¥¥Operations¥¥Tomcat¥¥bin¥¥tomcat8.exe" //RS//ServiceGovernor",
        "Name": "tomcat8.exe"
},
{
    "CommandLine": "System",
    "Name": "System"
},
{
    "CommandLine": "¥"C:/Program Files (x86)/NEC/UMF/Operations/Manager/bin/dbms1/bin/postgres.exe" --forkbackend" 4444",
        "Name": "postgres.exe"
}
],
"Manager": {
    "ErrorMessage": "",
    "Name": "localhost",
    "Status": 200,
    "StatusCode": 200
}
}
}

```

4.6.14 Adding the monitoring instance settings (Ext)

1. Process overview

Add the monitoring instance settings to the specified monitoring object.

(The higher objects must be monitored here.)

Only the "Extend Process" that is a target of the PerformanceExt function must be monitored; Agent[n].Object[m].ServiceID of Extend Process (this is the object information obtained when obtaining the performance monitoring tree configuration) is set to 106.

2. HTTP method

POST

3. URL

/umf/fw/performance/instance/**AgentName**/**NodeID**/add

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the object ID to be added as ***NodeID***.

4. Parameter

Parameter	Type	Description	Omittable	Valid value
(Root)	object	Root object	No	-
Instance	object[]	Array of the instances to be added	No	-
Instance[n].Name	string	Name of the instance to be added	No	Up to 128 characters
Instance[n].CommandLine	string	Command line name to be added	No	Up to 4096 characters To be described in regular expression format. Meta characters must start with "\\" for escaping when they are used as normal characters.
Instance[n].ProcessNum	number	Number of searched processes to be added		More than 1 and 65535 or less Default value: 64
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring instance settings have been added successfully.
400	Bad Request	The agent name to be added is not specified. The object ID to be added is not specified. The instance name to be added is not specified. The command line name to be added is not specified while the object to be added is "Extend Process".
404	Not Found	The specified agent does not exist. When the specified agent is stopped The specified object does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-

Parameter	Type	Description	Valid value
Instance	object[]	Array of the instance information to be added	* Only the added instances are enumerated.
Instance[n].NodeID	string	Management ID of the instance to be added	8 digits in hexadecimal
Instance[n].Name	string	Instance name	Up to 128 characters
Instance[n].CommandLine	string	Command line	Up to 4096 characters Same as the contents at the specified requests
Instance[n].ProcessNum	number	Number of searched processes to be added	More than 1 and 65535 or less
Instance[n].Existence	boolean	Whether the instance exists or not in the object when adding	false: Does not exist. true: Exists.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

- * If the same instance name is specified as more than one setting, the setting registered later is valid.
- * If overlapping with the instances (Name) that have already been set, the overlapping counter is skipped and an error does not occur.
- * The instances that do not exist are also registered.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

Example: Adding the monitoring definition setting of the "tomcat8.exe" to the object of the agent "AgentHost".

- a. Obtain the topology tree configuration, and confirm the Agent name to be added.

For details, see "[Obtaining the topology tree configuration \(page 73\)](#)".

- b. Obtain the performance monitoring tree configuration, and confirm the management ID of "Extend Process" to be the destination to which the monitoring definition is added.

For details, see "[Obtaining the performance monitoring tree configuration \(page 170\)](#)".

- c. Obtain the monitoring instance information (Ext), and confirm the instance name and command line name to be added as the monitoring definition setting.

For details, see "[Obtaining the monitoring instance information \(Ext\) \(page 213\)](#)".

- d. Add the monitoring instance definition setting. Specify the following parameters, and execute the request.

- Specify "AgentHost" obtained when obtaining the topology tree configuration as AgentName of the URL of this API.
- Specify the management ID of "Extend Process" obtained when obtaining the performance monitoring tree configuration as NodeID of the URL of this API.
- Specify "tomcat8.exe" and the command line name obtained when obtaining the monitoring instance information (Ext) in the request Json.

[Request]

```
POST /umf/fw/performance/instance/AgentHost/06e92882/add HTTP/1.1
Content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 05:10:50 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:iWN32T3yh6hGk+rdJJxrvvfE5zjyNqBcgU2DvlRJDt8=
Host: 192.168.21.4:12080
Content-Length: 203

{
  "Instance": [
    {
      "CommandLine": "\"C:\\Program Files (x86)\\NECYUMF\\Operations\\Tomcat\\bin\\tomcat8.exe\" //RS//ServiceGovernor",
      "Name": "tomcat8.exe",
      "ProcessNum": 64
    }
  ],
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 284
Date: Fri, 18 Mar 2016 05:06:58 GMT

{
  "Instance": [
    {
      "CommandLine": "\"C:\\Program Files (x86)\\NECYUMF\\Operations\\Tomcat\\bin\\tomcat8.exe\" //RS//ServiceGovernor",
      "Existence": false,
      "Name": "tomcat8.exe",
      "NodeID": "06eb8cf2",
      "ProcessNum": 64
    }
  ],
  "Manager": {
    "ErrorMessage": ""
  }
}
```

```

        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}

```

4.6.15 Deleting the monitoring instance settings (Ext)

1. Process overview

Delete the specified monitoring instance settings.
Only the "Extend Process" that is a target of the PerformanceExt function must be deleted; Agent[n].Object[m].ServiceID of Extend Process (this is the object information obtained when obtaining the performance monitoring tree configuration) is set to 106.

2. HTTP method

POST

3. URL

/umf/fw/performance/instance/**AgentName**/**NodeID**/remove

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the parent node ID of the instance to be deleted in **NodeID**.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Instance	object[]	Array of the instance information to be deleted	No	-
Instance[n].NodeID	string	Management ID of the instance to be deleted	No	8 digits in hexadecimal
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring instance settings have been deleted successfully.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The parent node ID of the specified instance to be deleted does not exist.

HTTP status code	Meaning	Description
		The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	Parent node ID of the instance to be deleted	8 digits in hexadecimal
Instance	object[]	Array of the instance information to be deleted	* Only the deleted instances are enumerated.
Instance[n].NodeID	string	Management ID of the instance to be deleted	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

- * If the counter being monitored is set under a deleted instance, the lower counter is deleted (deleted from the tree configuration) while it is being monitored.
- * NodeID that does not exist is skipped and an error does not occur.

7. Change history

- X-FW-API-Version : 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/performance/instance/AgentHost/06e92882/remove HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 05:20:47 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:l6Ays2go0SwqCNuAJzV8EcfEyjQIzNPL4DE2qMJ8xp4=
Host: 192.168.21.4:12080
Content-Length: 70

{
  "Instance": [
    {
      "NodeID": "56eb8dc9"
    }
  ],
  "Manager": {
```

```

        "Name": "localhost"
    }
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 135
Date: Fri, 18 Mar 2016 05:16:54 GMT

{
    "NodeID": "06e92882",
    "Instance": [
        {
            "NodeID": "56eb8dc9"
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}

```

4.6.16 Updating monitoring instance settings (Ext)

1. Process overview

Update the specified monitoring instance settings.
Only the "Extend Process" that is a target of the PerformanceExt function must be monitored; Agent[n].Object[m].ServiceID of Extend Process (this is the object information obtained when obtaining the performance monitoring tree configuration) is set to 106.

2. HTTP method

POST

3. URL

/umf/fw/performance/instance/**AgentName**/**NodeID**/update

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the parent node ID of the instance to be updated in **NodeID**.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Instance	object[]	Array of the monitoring instances	No	-
Instance[n].NodeID	string	Management ID of the monitoring instance	No	8 digits in hexadecimal
Instance[n].Name	string	Name of the instance to be monitored		Up to 128 characters
Instance[n].CommandLine	string	Command line name to be monitored		Up to 4096 characters Describe this key using a regular expression. (When using meta characters such as a period (.) and yen mark (\) (characters with special meanings for regular expression) as normal characters, add "\\" immediately before the meta character to escape.)
Instance[n].ProcessNum	number	Number of searched processes to be monitored		1 to 65535
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring instance settings have been updated successfully.
400	Bad Request	The agent name to be renewed is not specified. The management ID of the monitoring instance is not specified. The same instance (Name) is set in the request JSON. An instance (Name) is overlapped with an instance (Name) that has already been set.
404	Not Found	The specified agent does not exist. When the specified agent is stopped The parent node ID of the specified instance to be updated does not exist. The specified instance does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Instance	object[]	Array of the monitoring instance information	* Only the updated instance information is enumerated.
Instance[n].NodeID	string	Management ID of the renewed instance	8 digits in hexadecimal
Instance[n].Name	string	Display name (instance name)	Up to 128 characters
Instance[n].CommandLine	string	Command line name to be monitored	Up to 4096 characters
Instance[n].ProcessNum	number	Number of searched processes to be monitored	1 to 65535
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* If the same NodeID is specified as more than one setting, the setting registered later is valid and an error does not occur.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/performance/instance/AgentHost/06e92882/update HTTP/1.1
content-type: application/json; charset=utf-8
x-fw-api-version: 1.0
Date: Fri, 18 Mar 2016 05:17:52 GMT
Authorization: SharedKeyLite 16ubpcPbB793uvumPrvSwZIDkuTLRo6w9LuRAwC2G
5o=:Z9w+huFVLilc5G6LN8TpceTylBLftMRDnT+FcVebCuU=
Host: 192.168.21.4:12080
Content-Length: 88

{
  "Instance": [
    {
      "NodeID": "56eb8dc9",
      "ProcessNum": 100
    }
  ],
  "Manager": {
    "Name": "localhost"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 280
Date: Fri, 18 Mar 2016 05:13:59 GMT

{
    "Instance": [
        {
            "CommandLine": "\"C:/Program Files \\\x86\\)/NEC/UMF/Operations/Manager/bin/dbms1/bin/postgres\\.exe\" \"--forkcol\" \"4460\"",
            "Name": "postgres.exe",
            "NodeID": "56eb8dc9",
            "ProcessNum": 100
        }
    ],
    "Manager": {
        "ErrorMessage": "",
        "Name": "localhost",
        "Status": 200,
        "StatusCode": 200
    }
}
```

4.7 Performance statistics

4.7.1 Obtaining the performance counter list

1. Process overview

Obtain the performance counter list.

A regular expression can be used to specify the obtained counter names. However, a large-quantity counter list may be returned according to the specified regular expression.

Narrow down the specifications of the regular expression, and obtain the list multiple times.

2. HTTP method

GET

3. URL

```
/umf/fw/perfstatistics/indicators?IndicatorName=IndicatorName&ManagerName=ManagerName
[&MaxIndicatorCount=MaxIndicatorCount]
```

Specify the counter name to be obtained as a list using a regular expression in **IndicatorName**.

Delete spaces before and after the characters. This item cannot be omitted.

Specify the name of the manager in which the counter exists in **ManagerName**. This item cannot be omitted.

Specify the upper-limit value of the number of the counter to be returned in **MaxIndicatorCount**.

Specify a value within the range of 1 to 2147483647.

If the number of the counter corresponding to the regular expression exceeds the upper limit, an error (500) occurs.

Set "1000" in the event of omitting.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The counter list has been obtained successfully.
400	Bad Request	The parameter is specified incorrectly. (The required parameter is not specified.)
404	Not Found	The manager does not exist.
500	Internal Server Error	Internal server error The parameter is specified incorrectly.

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Indicator	object[]	Indicator object	-
Indicator[n].StatisticsInterval	string[]	Statistical data creation interval list	d.hh:mm:ss format A value within the range from 0 to 365 is set in d. Leave a space if statistical data is not created. *See Note
Indicator[n].IndicatorList	object[]	Counters	Blank characters are specified if the corresponding counter does not exist.
Indicator[n].IndicatorList[m].Name	string	Counter name	1 to 1024 characters
Indicator[n].IndicatorList[m].Interval	string	Performance data collection interval	d.hh:mm:ss format
Indicator[n].IndicatorList[m].RegistStatistics	boolean	Registration of target counters for statistics	Indicates whether target counters for statistics are registered or not. true: Registered false: Unregistered

Parameter	Data type	Description	Valid value
			For a counter set as true (Registered), statistical data is created at the interval set in StatisticsInterval.
Indicator[n].Manager	object	Manager object	-
Indicator[n].Manager.Name	string	Manager name	Manager name, MoM name, or RM name
Indicator[n].Manager.ErrorMessage	string	Error message	-
Indicator[n].Manager.Status	number	Communication error code	-
Indicator[n].Manager.StatusCode	number	Internal error code	-

* **Note:** The statistical data creation interval list is common to all counters.

If the collection interval of performance data is longer than the creation interval of the statistical data of the counter, the data created at the listed interval may not be created partially since statistical data is created based on performance data.

If statistical data is used in other functions such as the multi-graph view, a list including such creation interval is returned.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added

8. JSON Example

[Request]

```
GET /umf/fw/perfstatistics/indicators?IndicatorName=^System\|.*&ManagerName=mco-MoM&MaxIndicatorCount=2000 HTTP/1.1
Host: ClientHost
Date: Tue, 19 Apr 00:00:00 GMT
Authorization: SharedKeyLite ZIrgoOV5r1JOJwt3/M6e3M9PIDRntc37o375njmXoPk=:X+HnXjAP9jXuD/nz5khRVDMggIY5aR0wmjGCK0bBnr4=
X-FW-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
Connection:close
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 492
```

```

Date: Tue, 19 Apr 2016 06:42:24 GMT
Connection: close

{
    "Indicator" : [
        {
            "IndicatorList" : [
                {
                    "RegistStatistics" : true,
                    "Interval" : "0.00:00:30",
                    "Name" : "System|AGENT01|Processor|_Total|% Processor Time"
                }, {
                    "RegistStatistics" : true,
                    "Interval" : "0.00:00:30",
                    "Name" : "System|AGENT01|LogicalDisk|C:|Disk Transfers/sec"
                }, {
                    "RegistStatistics" : true,
                    "Interval" : "0.00:00:30",
                    "Name" : "System|AGENT01|Memory|% Memory Used Ex"
                }
            ],
            "StatisticsInterval" : [
                "0.00:10:00", "0.01:00:00", "1.00:00:00"
            ],
            "Manager" : {
                "Name" : "mco-MoM",
                "Status" : 200,
                "StatusCode" : 200,
                "ErrorMessage" : "200 OK"
            }
        }
    ]
}

```

4.7.2 Obtaining performance information

1. Process overview

Obtain the performance information of the specified counter.

Although the performance information on the specified period and interval can be obtained, a large quantity of data may be returned according to the specified period and interval.

To obtain an enormous volume of performance information, narrow down the period and divide the information into several volumes to obtain the information multiple times.

Example: To obtain performance information every minute, divide the information into day units, and obtain it.

2. HTTP method

POST

3. URL

/umf/fw/perfstatistics/performances

4. Parameters

Parameter	Data type	Description	Omission	Valid value
(ROOT)	object	Root object type	Not possible	-
Performance	object	Performance information object	Not possible	-
Performance.Name	string	Counter name	Not possible	1 to 1024 characters Specifying regular expressions is not allowed.
Performance.DataType	number	Type of performance information to be obtained	Not possible	Specify the following values. 0: Performance data 1: Statistics data *Note 1
Performance.Statistics	string[]	Calculation method for the performance information to be obtained	Cannot be omitted if DataType is set to 1 (Statistical data).	Specify the following values. Maximum: Maximum value Average: Average value Minimum: Minimum value It is ignored if DataType is set to 0.
Performance.StartTime	string	Start date/time of the performance information to be obtained	No	The format is shown below. yyyy-MM-ddThh:mm:ss[+ -]hh:mm Example: 2011-12-31T23:59:59+09:00 Specify yyyy-MM-dd within the range of 1971-01-01 to 2036-12-31. For the time zone ([+ -]hh:mm), specify hh within the range of 00 to 14 while specifying mm within the range of 00 to 59.
Performance.EndTime	string	End date/time of the performance information to be obtained	No	The format is shown below. yyyy-MM-ddThh:mm:ss[+ -]hh:mm Example: 2011-12-31T23:59:59+09:00 Specify yyyy-MM-dd within the range from 1971-01-01 to 2036-12-31. For the time zone ([+ -]hh:mm), specify hh within the range of 00 to 14 while specifying mm within the range of 00 to 59. If the time zone value is not the same as StartTime, a parameter error occurs.
Performance.Interval	string	Interval at which performance information is to be obtained	Cannot be omitted if DataType is set to 1 (Statistical data).	d.hh:mm:ss format Specify any value from 0 to 365(ms) for d.

Parameter	Data type	Description	Omission	Valid value
				The statistical data or performance data corresponding to the specified value are returned. The interval when the performance information is returned may differ from the specified interval. It is ignored if DataType is set to 0. In this case, the information is returned at the intervals at which the performance information is collected.
Performance.MaxPastData	number	Upper-limit value of the data count to be returned when responding	Yes	If DataType is set to 1 (Statistical data), specify the upper limit of the data count to be returned in percent (%) figures. Specify a value within the range of 100 to 2147483647. Set "100" in the event of omitting. Compare the interval value specified in Performance.Interval or interval of collecting the performance information with the interval of the statistical/performance data to be returned. If the upper limit (%) is exceeded, an error (404) occurs. For example, if the interval of returning data is set to a value within the range of 30 minutes to 1 hour while Interval is set to 1 hour and MaxPastData to 200, the data is returned successfully. However, if there is data with a returning interval of 29 minutes or less only, an error (404) occurs.
Manager	object	Manager object	Not possible	-
Manager.Name	string	Manager name	Not possible	Manager name, MoM name, or RM name

* **Note 1:** If Performance.DataType is set to 0 (Performance data), the information is returned without processing such as calculation of the average value at the interval at which the performance information is collected.

If Performance.DataType is set to 1 (Statistics data), the performance information obtained at the interval specified in Performance.Interval is returned after calculation performed by the method specified in Performance.Statistics

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The performance information has been obtained successfully.
400	Bad Request	The parameter is specified incorrectly. (Manager.Name is not specified.)
404	Not Found	The manager does not exist. The specified counter name or the performance information of the specified period does not exist.
500	Internal Server Error	Internal server error The parameter is specified incorrectly.

6. Response

Parameters	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Performance	object[]	Performance information object	-
Performance[n].PerformanceList	object[]	Performance information list	-
Performance[n].PerformanceList[n].Name	string	Counter name	1 to 1024 characters
Performance[n].PerformanceList[m].Statistics	string	Performance information calculation method	<p>For the performance data, set the following values.</p> <p>RawData For the statistical data, set the following values.</p> <p>Maximum: Maximum value</p> <p>Average: Average value</p> <p>Minimum: Minimum value</p>
Performance[n].PerformanceList[m].Timestamps	string[]	Array of performance information dates	<p>The format is shown below.</p> <p>yyyy-MM-ddThh:mm:ss[+ -]hh:mm</p> <p>Example: 2011-12-31T23:59:59+09:00</p> <p>Set the time zone value specified in Performance.StartTime as described in "4. Parameter".</p> <p>*Note 2</p>
Performance[n].PerformanceList[n].Datum	string[]	Array of performance information data	<p>Set the performance value by integer values or a character string consisting of actual numbers.</p> <p>The value range is provided below.</p> <p>Integer: 0 to 18,446,744,073,709,551,615</p> <p>Up to 20 characters can be set.</p> <p>Real number: 1.7E +/- 308 (15 digits)</p>

Parameters	Data type	Description	Valid value
			Up to 17 characters including exponent characters can be set.
Performance[n].Manager	object	Manager object	-
Performance[n].Manager.Name	string	Manager name	Manager name, MoM name, or RM name
Performance[n].Manager.ErrorOrMessage	string	Error message	-
Performance[n].Manager.Status	number	Communication error code	-
Performance[n].Manager.StatusCode	number	Internal error code	-

* **Note 2:** The performance information during the period from the "Start date/time" to "End date/time" as specified in the parameter is returned. However, if the performance information during the specified period does not exist due to the stop of agent, etc., the performance information during such period is not returned.

Example: Although the performance information is specified so that it can be obtained every hour within the time from 10:00:00 to 16:00:00, the performance information from 13:00:00 to 14:00:00 does not exist.

If the performance information does not exist during any period, the date information (Timestamps) of the response JSON and the data information (Datum) do not include the performance information during such period.

```
{
  :
  :
  :
  "Timestamps": [
    "2016-06-06T10:00:00+09:00",
    "2016-06-06T11:00:00+09:00",
    "2016-06-06T12:00:00+09:00",
    "2016-06-06T15:00:00+09:00",
    "2016-06-06T16:00:00+09:00"
  ],
  "Datum": [
    "2.0",
    "3.0",
    "4.0",
    "1.0",
    "3.0"
  ],
  :
  :
  :
}
```

7. Change history

- X-FW-API-Version: 1.0

- Newly added

8. JSON Example

[Request]

```
POST /umf/fw/perfstatistics/performances HTTP/1.1
Host: ClientHost
Date: Tue, 19 Apr 2016 00:00:00 GMT
Authorization: SharedKeyLite ZIrgoOV5r1JOJwt3/M6e3M9PIDRntc37o375njmXo
Pk=:X+HnXjAP9jXuD/nz5khRVDMggIY5aR0wmjGCK0bBnr4=
X-FW-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 330
Connection:close

{
    "Performance": {
        "Name": "System|AGENT01|Processor|_Total|% Processor Time",
        "DataType": 1,
        "Statistics": [
            "Maximum",
            "Average"
        ],
        "Interval": "0.00:10:00",
        "MaxPastData": 100,
        "StartTime": "2016-04-19T16:30:00+09:00",
        "EndTime": "2016-04-19T16:50:00+09:00"
    },
    "Manager": {
        "Name": "mco-MoM"
    }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 632
Date: Tue, 19 Apr 2016 07:05:53 GMT
Connection: close

{
    "Performance" : [
        {
            "PerformanceList" : [
                {
                    "Statistics" : "Maximum",
                    "Timestamps" : [
                        "2016-04-19T16:30:00+09:00",
                        "2016-04-19T16:40:00+09:00",
                        "2016-04-19T16:50:00+09:00"
                    ]
                }
            ]
        }
    ]
}
```

```

        "2016-04-19T16:50:00+09:00"
    ],
    "Datum" : [
        "3.7784646512508679",
        "4.7923696604509569",
        "7.4004162661826527"
    ],
    "Name" : "System|AGENT01|Processor|_Total|% Processor Time"
}, {
    "Statistics" : "Average",
    "Timestamps" : [
        "2016-04-19T16:30:00+09:00",
        "2016-04-19T16:40:00+09:00",
        "2016-04-19T16:50:00+09:00"
    ],
    "Datum" : [
        "0.90731655056146554",
        "0.76526857169453177",
        "2.4476399787104097"
    ],
    "Name" : "System|AGENT01|Processor|_Total|% Processor Time"
}
],
"Manager" : {
    "Name" : "mco-MoM",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : "200 OK"
}
}
]
}

```

4.7.3 Meta characters in a regular expression used for specifying the counter name

- If you use meta characters in a regular expression for specifying the counter name, escape these characters before specifying them.

If meta characters are used as such, escaping is not required.

The meta characters to be escaped are as follows.

```
. ^ $ [ ] + ? | ( ) { } ! \ *
```

4.7.4 Parameters that can be omitted in request JSON

- If you omit parameters that can be omitted in the request JSON, omit the key itself.
Omitting of value is not allowed.

4.8 Application log monitoring

4.8.1 Obtaining the application log group information list

1. Process overview

Obtain the application log group list of the specified agent.

2. HTTP method

GET

3. URL

/umf/fw/aplog/group/**AgentName**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The application log group list has been obtained successfully.
404	Not Found	The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Agent	object[]	Array of the agent information	-
Agent[n].Name	string	Agent name	Up to 64 characters
Agent[n].NodeID	string	Management ID of the agent	8 digits in hexadecimal
Agent[n].ApplicationGroup	object[]	Array of the application log group	-
Agent[n].ApplicationGroup[m].Name	string	Application log group name	Up to 64 characters
Agent[n].ApplicationGroup[m].NodeID	string	Management ID of the application log group	8 digits in hexadecimal

Parameter	Type	Description	Valid value
Agent[n].ApplicationGroup[m].Application	object[]	Array of the application log to be monitored	-
Agent[n].ApplicationGroup[m].Application[l].Name	string	Application log name	Up to 32 characters
Agent[n].ApplicationGroup[m].Application[l].NodeID	string	Monitoring ID of the application log being monitored	8 digits in hexadecimal
Agent[n].ApplicationGroup[m].Application[l].ApLogName	string	Name of the monitored log file	Character string set as "Log file name" of the application log monitoring setting
Agent[n].ApplicationGroup[m].Application[l].Filter	object[]	Array of the log filter definition	-
Agent[n].ApplicationGroup[m].Application[l].Filter[o].Name	string	Log filter definition name	Up to 256 characters
Agent[n].ApplicationGroup[m].Application[l].Filter[o].NodeID	string	Management ID of the log filter definition	8 digits in hexadecimal
Agent[n].ApplicationGroup[m].ApplicationGroup	object[]	Array of the application log group	This is a recursive structure with the same structure as the ApplicationGroup object described above.
Agent[n].Application	object[]	Array of the application log to be monitored	-
Agent[n].Application[m].NodeID	string	Management ID of the application log being monitored	8 digits in hexadecimal
Agent[n].Application[m].ApLogName	string	Name of the monitored log file	Up to 256 characters
Agent[n].Application[m].Filter	object[]	Array of the log filter definition	-
Agent[n].Application[m].Filter[l].Name	string	Log filter definition name	Up to 256 characters
Agent[n].Application[m].Filter[l].NodeID	string	Management ID of the log filter definition	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/aplog/group/AgentHost HTTP/1.1
Accept: application/json, /*
Date: Fri, 13 May 2016 07:00:13 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:BTJ1kv2KT2H7viLICEHmMgsLpfOllolHe17Nlh1zBA=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 366
Date: Fri, 13 May 2016 07:16:48 GMT

{
  "Agent" : [ {
    "ApplicationGroup" : [ {
      "Application" : [ {
        "ApLogName" : "C:\\Program Files (x86)\\NEC\\application.log",
        "Filter" : [ {
          "Name" : "Filter01",
          "NodeID" : "07357e63"
        } ],
        "Name" : "application.log",
        "NodeID" : "07357972"
      } ],
      "Name" : "APGroupX",
      "NodeID" : "0735772a"
    } ],
    "Name" : "AgentHost",
    "NodeID" : "0735761f"
  } ],
  "Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
  }
}
```

4.8.2 Obtaining the application log setting information

1. Process overview

Obtain the application log setting information of the specified agent.

2. HTTP method

GET

3. URL

/umf/fw/aplog/monitor/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the application log to be obtained in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The application log setting information has been obtained successfully.
404	Not Found	The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped The specified application log does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value								
(Root)	object	Root object	-								
Application	object	Application log to be monitored	-								
Application.Name	string	Application log name	Up to 32 characters								
Application.NodeID	string	Management ID of the application log being monitored	8 digits in hexadecimal								
Application.ApLogName	string	Name of the monitored log file	Up to 256 characters								
Application.BackupLog	number	Backup log monitoring setting	0: Do not monitor 1: Monitor								
Application.BackupLogName	string[]	Array of the backup log file name to be monitored	To be output in order of priority.								
Application.Encode	number	Character codes for encoding	<table border="1"> <thead> <tr> <th>Setting value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>54936</td> <td>GB18030</td> </tr> <tr> <td>936</td> <td>gb2312</td> </tr> <tr> <td>950</td> <td>big5</td> </tr> </tbody> </table>	Setting value	Description	54936	GB18030	936	gb2312	950	big5
Setting value	Description										
54936	GB18030										
936	gb2312										
950	big5										

Parameter	Type	Description	Valid value	
			Setting value	Description
			20932	EUC-JP
			50220	iso-2022-jp
			932	shift_jis
			1200	utf-16
			1201	unicodeFFE
			65001	utf-8
			20127	us-ascii
Manager	object	Manager object	-	
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name	
Manager.ErrorMessage	string	Error messages	-	
Manager.Status	number	Communication error code	-	
Manager.StatusCode	number	Internal error code	-	

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/aplog/monitor/AgentHost/07357972 HTTP/1.1
Accept: application/json, /*
Date: Fri, 13 May 2016 07:04:36 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:iHxGrKHdbg1RmHqVCu/gP0XVPqtLMxMFfpkuWxIJxAU=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 247
Date: Fri, 13 May 2016 07:21:11 GMT

{
  "Application" : {
```

```

    "ApLogName" : "C:\\Program Files (x86) \\NEC\\application.log",
    "Encode" : 932,
    "BackupLogName" : [ ],
    "BackupLog" : 0,
    "Name" : "application.log",
    "NodeID" : "07357972"
},
"Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
}
}

```

4.8.3 Adding the application log monitoring settings

1. Process overview

Add the application log monitoring settings to the location under the specified application log group.

2. HTTP method

POST

3. URL

/umf/fw/aplog/monitor/**AgentName**/**NodeID**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the parent node (agent/group) to be added in **NodeID**.

4. Parameter

Parameter	Type	Description	O m i tta b l e	Valid value
(Root)	object	Root object	No	-
Application	object	Application log information to be added	No	-
Application.Name	string	Application log name to be added	No	Up to 32 characters
Application.ApLogName	string	Log file name to be added	No	Up to 256 characters
Application.BackupLog	number	Backup log monitoring setting		0: Do not monitor 1: Monitor Default value: 0: Not monitored

Parameter	Type	Description	Omitable	Valid value																										
Application.BackupLogName	string[]	Array of the backup log file name to be monitored		<p>Specify the files in the order of priority. Up to 8 files can be specified. One log file name can be specified by using up to 256 characters. Blank character is prohibited.</p> <p>* If "1: Monitored" is set to the backup log monitoring setting (BackupLog), at least one log file must be specified as the backup log file (BackupLogName).</p>																										
Application.Encode	number	Character codes for encoding		<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr><td>54936</td><td>GB18030</td></tr> <tr><td>936</td><td>gb2312</td></tr> <tr><td>950</td><td>big5</td></tr> <tr><td>20932</td><td>EUC-JP</td></tr> <tr><td>50220</td><td>iso-2022-jp</td></tr> <tr><td>932</td><td>shift_jis</td></tr> <tr><td>1200</td><td>utf-16</td></tr> <tr><td>1201</td><td>unicodeFFE</td></tr> <tr><td>65001</td><td>utf-8</td></tr> <tr><td>20127</td><td>us-ascii</td></tr> </tbody> </table> <p>Default value:</p> <table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr><td>20127</td><td>us-ascii</td></tr> </tbody> </table>	Setting value	Description	54936	GB18030	936	gb2312	950	big5	20932	EUC-JP	50220	iso-2022-jp	932	shift_jis	1200	utf-16	1201	unicodeFFE	65001	utf-8	20127	us-ascii	Setting value	Description	20127	us-ascii
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932	shift_jis																													
1200	utf-16																													
1201	unicodeFFE																													
65001	utf-8																													
20127	us-ascii																													
Setting value	Description																													
20127	us-ascii																													
Manager	object	Manager object		-																										
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name																										

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The application log has been added successfully.
404	Not Found	<p>The management ID of the specified parent node (agent/group) does not exist.</p> <p>The specified manager does not exist.</p> <p>The specified agent does not exist.</p> <p>When the specified agent is stopped</p>
409	Conflict	The specified resource cannot be uniquely identified because there is more than one

HTTP status code	Meaning	Description
		identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value																						
(Root)	object	Root object	-																						
NodeID	string	Management ID of the parent node (agent/group)	8 digits in hexadecimal																						
Application	object	Added application log information	-																						
Application.Name	string	Application log name	Up to 32 characters																						
Application.NodeID	string	Management ID of application log	8 digits in hexadecimal																						
Application.ApLogName	string	Name of the monitored log file	Up to 256 characters																						
Application.BackupLog	number	Backup log monitoring setting	0: Do not monitor 1: Monitor																						
Application.BackupLogName	string[]	Array of the backup log file name to be monitored	To be output in order of priority.																						
Application.Encode	number	Character code of the monitoring log	<table border="1"> <thead> <tr> <th>Setting value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>54936</td> <td>GB18030</td> </tr> <tr> <td>936</td> <td>gb2312</td> </tr> <tr> <td>950</td> <td>big5</td> </tr> <tr> <td>20932</td> <td>EUC-JP</td> </tr> <tr> <td>50220</td> <td>iso-2022-jp</td> </tr> <tr> <td>932</td> <td>shift_jis</td> </tr> <tr> <td>1200</td> <td>utf-16</td> </tr> <tr> <td>1201</td> <td>unicodeFFFE</td> </tr> <tr> <td>65001</td> <td>utf-8</td> </tr> <tr> <td>20127</td> <td>us-ascii</td> </tr> </tbody> </table>	Setting value	Description	54936	GB18030	936	gb2312	950	big5	20932	EUC-JP	50220	iso-2022-jp	932	shift_jis	1200	utf-16	1201	unicodeFFFE	65001	utf-8	20127	us-ascii
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932	shift_jis																								
1200	utf-16																								
1201	unicodeFFFE																								
65001	utf-8																								
20127	us-ascii																								
Application.EncodeString	string	Character code character string of the monitoring log	-																						
Manager	object	Manager object	-																						
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name																						
Manager.ErrorMessage	string	Error messages	-																						
Manager.Status	number	Communication error code	-																						
Manager.StatusCode	number	Internal error code	-																						

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
POST /umf/fw/aplog/monitor/AgentHost/0735772a HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, */*
Date: Fri, 13 May 2016 06:34:55 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:5VjY17GFcl3ENRbWq48/79m3IoEAeOmifIIkh+vCwz0=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 148

{
  "Application" : {
    "ApLogName" : "C:\\Program Files (x86) \\NEC\\application.log",
    "BackupLog" : 0,
    "BackupLogName" : [ ],
    "Encode" : 932,
    "Name" : "application.log"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 267
Date: Fri, 13 May 2016 06:51:30 GMT

{
  "Application" : {
    "ApLogName" : "C:\\Program Files (x86) \\NEC\\application.log",
    "Encode" : 932,
    "BackupLogName" : [ ],
    "BackupLog" : 0,
    "Name" : "application.log",
    "NodeID" : "07357972"
  },
  "NodeID" : "0735772a",
  "Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
  }
}
```

```

    }
}
```

4.8.4 Deleting the application log monitoring settings

1. Process overview

Delete the monitoring settings for the specified application log.

2. HTTP method

```
DELETE
```

3. URL

```
/umf/fw/aplog/monitor/AgentName/NodeID?ManagerName=ManagerName
```

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the target application log in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The application log has been deleted successfully.
404	Not Found	The management ID of the specified application log does not exist. The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	Management ID of the deleted application log	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-

Parameter	Type	Description	Valid value
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
DELETE /umf/fw/aplog/monitor/AgentHost/07357972 HTTP/1.1
Accept: application/json, /*
Date: Fri, 13 May 2016 07:27:46 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:SxFtoljtJKQfY/xaDQMP9q7UuqaPk9C/f/bYqZo6rPc=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 100
Date: Fri, 13 May 2016 07:44:21 GMT

{
  "NodeID" : "07357972",
  "Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
  }
}
```

4.8.5 Updating the application log monitoring settings

1. Process overview

Update the monitoring settings for the specified application log.

2. HTTP method

PUT

3. URL

```
/umf/fw/aplog/monitor/AgentName/NodeID
```

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the application log to be updated in **NodeID**.

4. Parameter

Parameter	Type	Description	Optional attribute	Valid value																		
(Root)	object	Root object	No	-																		
Application	object	Application log information		-																		
Application.Name	string	Application log name		Up to 32 characters																		
Application.ApLogName	string	Name of the monitored log file		Up to 256 characters																		
Application.BackupLog	number	Backup log monitoring setting		0: Do not monitor 1: Monitor																		
Application.BackupLogName	string[]	Array of the backup log file name to be monitored		<p>Specify the files in order of priority. Up to 8 files can be specified. One log file name can be specified by using up to 256 characters. Use of a blank character is prohibited.</p> <ul style="list-style-type: none"> * If "1: Monitored" is set to the backup log monitoring setting (BackupLog) and the backup log file is not set to the existing node, at least one log file must be specified as the backup log file (BackupLogName). * By specifying the corresponding key, all the existing backup log file settings are deleted, and the specified values are set. * If an empty array is specified, all the backup log file settings are deleted. 																		
Application.Encode	number	Character codes for encoding		<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>54936</td><td>GB18030</td></tr> <tr> <td>936</td><td>gb2312</td></tr> <tr> <td>950</td><td>big5</td></tr> <tr> <td>20932</td><td>EUC-JP</td></tr> <tr> <td>50220</td><td>iso-2022-jp</td></tr> <tr> <td>932</td><td>shift_jis</td></tr> <tr> <td>1200</td><td>utf-16</td></tr> <tr> <td>1201</td><td>unicodeFFFE</td></tr> </tbody> </table>	Setting value	Description	54936	GB18030	936	gb2312	950	big5	20932	EUC-JP	50220	iso-2022-jp	932	shift_jis	1200	utf-16	1201	unicodeFFFE
Setting value	Description																					
54936	GB18030																					
936	gb2312																					
950	big5																					
20932	EUC-JP																					
50220	iso-2022-jp																					
932	shift_jis																					
1200	utf-16																					
1201	unicodeFFFE																					

Parameter	Type	Description	Omitable	Valid value	
				Setting value	Description
				65001	utf-8
				20127	us-ascii
Manager	object	Manager object	-		
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name	

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The application log has been updated successfully.
400	Bad Request	Nine or more log file names are specified in the array of BackupLogName.
404	Not Found	The management ID of the specified application log group does not exist. The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Application	object	Application log information	* Displayed only if the application log information is updated.
Application.Name	string	Application log name	Up to 32 characters
Application.NodeID	string	Management ID of application log	8 digits in hexadecimal
Application.ApLogName	string	Log file name	Up to 256 characters
Application.BackupLog	number	Backup log monitoring setting	0: Do not monitor 1: Monitor
Application.BackupLogName	string[]	Array of the backup log file name to be monitored	To be output in the order of priority.
Application.Encode	number	Character code of the monitoring log	Setting value
			Description
			54936
			GB18030
			936
			gb2312
			950
			big5
			20932
			EUC-JP

Parameter	Type	Description	Valid value	
			Setting value	Description
			50220	iso-2022-jp
			932	shift_jis
			1200	utf-16
			1201	unicodeFFE
			65001	utf-8
			20127	us-ascii
Manager	object	Manager object	-	
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name	
Manager.ErrorMessage	string	Error messages	-	
Manager.Status	number	Communication error code	-	
Manager.StatusCode	number	Internal error code	-	

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
{
  "Application": {
    "ApLogName": "C:\Program Files (x86)\NEC\UMF\Operations\Tomcat
\logs\vdca.log",
    "BackupLog": 1,
    "BackupLogName": "C:\Program Files (x86)\NEC\UMF\Operations\To
mcat\logs\vdca.log1",
    "Encode": 932,
    "Name": "APLog1"
  },
  "Manager": {
    "Name": "MoM1"
  }
}
```

[Response]

```
{
  "Application": {
    "ApLogName": "C:\Program Files (x86)\NEC\UMF\Operations\Tomcat
\logs\vdca.log",
    "BackupLog": 1,
    "BackupLogName": "C:\Program Files (x86)\NEC\UMF\Operations\To
mcat\logs\vdca.log1",
    "Encode": 932,
    "Name": "APLog1",
    "NodeID": "54d2c0cb"
  },
  "Manager": {
```

```

        "ErrorMessage": null,
        "Name": "MoM1",
        "Status": 200,
        "StatusCode": 200
    }
}

```

4.8.6 Obtaining the application log filter definition list

1. Process overview

Obtain the filter definition list of the specified application log.
The obtained filter definition lists are output in order of priority.

2. HTTP method

GET

3. URL

/umf/fw/aplog/filter/**AgentName**/list/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the target application log in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The log filter definition list has been obtained successfully.
404	Not Found	The management ID of the specified log does not exist. The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Filter	object[]	Array of log filter definitions	-
Filter[n].NodeID	string	Log filter definition management ID	8 digits in hexadecimal

Parameter	Type	Description	Valid value
Filter[n].Name	string	Log filter name	Up to 256 characters
Filter[n].FilterType	number	Filter type	0: Storage filter 1: Deletion filter
Filter[n].MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation
Filter[n].MessageText	string	Message text condition	Up to 1024 characters
Filter[n].SelPos	object[]	Array of the SelPos conditions	-
Filter[n].SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelPos[m].Position	number	Comparison position	1: Origin
Filter[n].SelPos[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter[n].SelPos[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].SelKey	object[]	Array of the SelKey conditions	-
Filter[n].SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelKey[m].Key	string	Key character string	Up to 64 characters
Filter[n].SelKey[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter[n].SelKey[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].Severity	number	Displayed definition: Severity	* Output only when the filter type is storage filter.
Filter[n].Category	string	Displayed definition: Category name	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].Node	string	Displayed definition: Node name	Up to 256 characters * Output only when the filter type is storage filter.
Filter[n].Application	string	Displayed definition: Application name	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].Object	string	Displayed definition: Object name	Up to 32 characters * Output only when the filter type is storage filter.

Parameter	Type	Description	Valid value
Filter[n].MessageID	string	Displayed definition: Message ID	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].MessageIgnore	number	Message suppression function	0: Do not use the function 1: Use the function * Output only when the filter type is storage filter.
Filter[n].MessageIgnoreInterval	number	Message suppression interval	Unit: Second Integer in the range of 1 to 3600 * Output only when the filter type is storage filter.
Filter[n].MessageIgnorePassDelete	number	Suppression operation	0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter. * Output only when the filter type is storage filter.
Filter[n].MessageIgnoreReset	number	Monitoring interval reset	0: Do not reset 1: Reset * Output only when the filter type is storage filter.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/aplog/filter/AgentHost/list/07357972 HTTP/1.1
Accept: application/json, /*
Date: Fri, 13 May 2016 07:09:18 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WoCJyLcbTp28IylwP4Q
hs=:obP6CIaM98obcAwLgQyePKApe6N69iJnnMHsxPUH7co=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1220
Date: Fri, 13 May 2016 07:25:54 GMT

{
  "Filter" : [ {
    "MessageIgnore" : 0,
    "Node" : "AgentHost",
    "Application" : "application.log",
    "MessageIgnoreInterval" : 10,
    "SelKey" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    } ]
  }
}

```



```

        "ErrorMessage" : ""
    }
}

```

4.8.7 Obtaining the application log filter definition

1. Process overview

Obtain the specified application log filter definition.

2. HTTP method

GET

3. URL

/umf/fw/aplog/filter/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the filter ID to be obtained in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The log filter definition has been obtained successfully.
404	Not Found	The specified filter ID does not exist. The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Filter	object	Log filter definition	-
Filter.NodeID	string	Log filter definition management ID	8 digits in hexadecimal
Filter.Name	string	Log filter name	Up to 256 characters
Filter.FilterType	number	Filter type	0: Storage filter 1: Deletion filter
Filter.MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation

Parameter	Type	Description	Valid value
Filter.MessageText	string	Message text condition	Up to 1024 characters
Filter.SelPos	object[]	Array of the SelPos conditions	-
Filter.SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter.SelPos[m].Position	number	Comparison position	1: Origin
Filter.SelPos[m].Compare Type	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter.SelPos[m].Value	string	Comparison character string	Up to 64 characters
Filter.SelKey	object[]	Array of the SelKey conditions	-
Filter.SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter.SelKey[m].Key	string	Key character string	Up to 64 characters
Filter.SelKey[m].Compare Type	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter.SelKey[m].Value	string	Comparison character string	Up to 64 characters
Filter.Severity	number	Displayed definition: Severity	* Output only when the filter type is storage filter.
Filter.Category	string	Displayed definition: Category name	Up to 32 characters * Output only when the filter type is storage filter.
Filter.Node	string	Displayed definition: Node name	Up to 256 characters * Output only when the filter type is storage filter.
Filter.Application	string	Displayed definition: Application name	Up to 32 characters * Output only when the filter type is storage filter.
Filter.Object	string	Displayed definition: Object name	Up to 32 characters * Output only when the filter type is storage filter.
Filter.MessageID	string	Displayed definition: Message ID	Up to 32 characters * Output only when the filter type is storage filter.
Filter.MessageIgnore	number	Message suppression function	0: Do not use the function 1: Use the function

Parameter	Type	Description	Valid value
			* Output only when the filter type is storage filter.
Filter.MessageIgnoreInterval	number	Message suppression interval	Unit: Second Integer in the range of 1 to 3600 * Output only when the filter type is storage filter.
Filter.MessageIgnorePassDelete	number	Suppression operation	0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter. * Output only when the filter type is storage filter.
Filter.MessageIgnoreReset	number	Monitoring interval reset	0: Do not reset 1: Reset * Output only when the filter type is storage filter.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/aplog/filter/AgentHost/07357e63 HTTP/1.1
Accept: application/json, /*
Date: Fri, 13 May 2016 07:12:03 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQH4WoCJyLcbTp28IylwP4Q
hs=:pZHVUmRKsYA2mr62cDwx2jQVqAAg2MLEpuyMe0MZSSY=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
```

```

X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1218
Date: Fri, 13 May 2016 07:28:38 GMT

{
  "Filter" : {
    "MessageIgnore" : 0,
    "Node" : "AgentHost",
    "Application" : "application.log",
    "MessageIgnoreInterval" : 10,
    "SelKey" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    } ],
    "MessageIgnorePassDelete" : 0,
    "Severity" : 264,
    "MessageIgnoreReset" : 0,
    "SelPos" : [ {
      "CompareType" : 0,

```

```
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"Name" : "Filter01",
"MessageID" : "0000",
"MessageTextNot" : 0,
"NodeID" : "07357e63",
"Object" : "ApLogMonitor",
"FilterType" : 0,
"Category" : "Application",
"MessageText" : ".*"
},
"Manager" : {
  "Name" : "localhost",
  "Status" : 200,
  "StatusCode" : 200,
  "ErrorMessage" : ""
}
```

4.8.8 Editing the application log filter definition

1. Process overview

Edit (Add, Delete, Renew, Renew the priority order) the application log filter definition in the specified application log.

Operation	Description
Addition	If Filter[n].NodeID (log filter management ID) is not specified, new filter information is added.
Update	If Filter[n].NodeID (log filter management ID) is specified, the matching filter information is updated. As for the parameters that can be omitted, if you specify only those items whose settings you want to modify, the remaining items are kept defined. By specifying "1: Do not modify" in Filter[n].NotModify (no modification flag), you can intentionally prevent the definitions from being updated.
Deletion	If you do not specify defined filter information, the defined filter information is deleted.
Priority order	This is set by the order of defined filters.

2. HTTP method

POST

3. URL

/umf/fw/aplog/filter/**AgentName**/**NodeID**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the target application log in **NodeID**.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Filter	object[]	Information on the log filter definition to be edited	No	-
Filter[n].NodeID	string	Log filter definition management ID		8 digits in hexadecimal If this item is omitted, the addition process is performed. If this item is omitted, the update process is performed.
Filter[n].NotModify	number	No change flag		0: Change 1: No change Used only when the filter is

Parameter	Type	Description	Omittable	Valid value
				<p>updated. If 0 is specified, the filter information is considered to have been changed and all the subsequent keys are checked. If 1 is specified, the filter information is considered to not have been changed and none of the subsequent keys is checked.</p> <p>* If you want to change only a specific filter, the order of priority, etc., specifying 1 in this key improves the processing performance.</p> <p>Default value: 0: Change</p>
Filter[n].Name	string	Log filter name		<p>Up to 256 characters</p> <p>Whether the key is required or not is as follows. When NodeID is omitted (add) : Required When NodeID is specified (update) : Optional</p>
Filter[n].FilterType	number	Filter type		<p>0: Storage filter 1: Deletion filter</p> <p>Default value: 0: Storage filter</p>
Filter[n].MessageText Not	number	Negation specification of the message text condition		<p>0: Affirmation 1: Negation</p> <p>Default value: 0: Positive</p>
Filter[n].MessageText	string	Message text condition		<p>Up to 1024 characters</p> <p>Default value: null: No comparison character string</p> <p>If 1 is specified in Filter[n].MessageTextNot, this item must be specified.</p>
Filter[n].SelPos	object[]	Array of the SelPos conditions		-
Filter[n].SelPos[m].Type	number	Negation specification		<p>0: Affirmation 1: Negation</p> <p>Default value: 0: Positive</p>
Filter[n].SelPos[m].Position	number	Comparison position		<p>1: Origin (in the range of 1 to 1024)</p> <p>Default value: 1: 1st character</p>

Parameter	Type	Description	Optional attribute	Valid value
				If 1 is specified in Filter[n].SelPos[m].Type, this item must be specified.
Filter[n].SelPos[m].CompareType	number	Comparison type		<p>0 := 1 :<> 2 :>= 3 :> 4 :<= 5 :<</p> <p>Default value: 0 :=</p> <p>If 1 is specified in Filter[n].SelPos[m].Type, this item must be specified.</p>
Filter[n].SelPos[m].Value	string	Comparison character string		<p>Up to 64 characters</p> <p>Default value: -: No character string to compare</p> <p>If 1 is specified in Filter[n].SelPos[m].Type, this item must be specified.</p>
Filter[n].SelKey	object[]	Array of the SelKey conditions		-
Filter[n].SelKey[m].Type	number	Negation specification		<p>0: Affirmation 1: Negation</p> <p>Default value: 0: Positive</p>
Filter[n].SelKey[m].Key	string	Key character string		<p>Up to 64 characters</p> <p>Default value: null: No key character string</p> <p>If a value is specified in Filter[n].SelKey[m].Value, this item must be specified.</p>
Filter[n].SelKey[m].CompareType	number	Comparison type		<p>0 := 1 :<> 2 :>= 3 :> 4 :<= 5 :<</p> <p>Default value: 0 :=</p> <p>If 1 is specified in Filter[n].SelKey[m].Type, this item must be specified.</p>
Filter[n].SelKey[m].Value	string	Comparison character string		<p>Up to 64 characters</p> <p>Default value: -: No character string to compare</p> <p>If a value is specified in Filter[n].SelKey[m].Key, this item must be specified.</p>

Parameter	Type	Description	Optional attribute	Valid value
Filter[n].Severity	number	Displayed definition: Severity		* Output only when the filter type is storage filter. Default value: 264: Normal
Filter[n].Category	string	Displayed definition: Category name		Up to 32 characters Default value: Application
Filter[n].Node	string	Displayed definition: Node name		Up to 256 characters Default value: Name of the agent to which the relevant filter was added
Filter[n].Application	string	Displayed definition: Application name		Up to 32 characters Default value: Name of the application log to which the relevant filter was added
Filter[n].Object	string	Displayed definition: Object name		Up to 32 characters Default value: ApLogMonitor
Filter[n].MessageID	string	Displayed definition: Message ID		Up to 32 characters Default value: 0000
Filter[n].MessageIgnore	number	Message suppression function		0: Do not use the function 1: Use the function Default value: 0: Function is not used
Filter[n].MessageIgnoreInterval	number	Message suppression interval		Unit: Second Integer in the range of 1 to 3600 Default value: 10: 10 seconds of suppression intervals
Filter[n].MessageIgnorePassDelete	number	Suppression operation		0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter. Default value: 0: The message within the monitoring intervals is deleted
Filter[n].MessageIgnoreReset	number	Monitoring interval reset		0: Do not reset 1: Reset Default value: 0: Not reset
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

- * If "1: Negation" was set to each negative condition and if some values such as a corresponding character string to compare are omitted, an error occurs.
- * If the SelKey key character string and comparison character are input only to one side, an error occurs.
- * Also if "1: Deletion filter" was set to the filter type, the display definition and option definition (message suppression function) can be set. However, the message is handled as the deletion message and the function is not valid.

If the same NodeID is specified for more than one setting, the setting registered later is valid and an error does not occur.

If the Management ID of the filter that does not exist or the Management ID of the filter that is not located under the corresponding application log is specified, the definition is not edited and an error does not occur.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The application log filter definition had been edited successfully.
404	Not Found	The management ID of the specified application log does not exist. The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Filter	object[]	Array of log filter definitions	-
Filter[n].NodeID	string	Log filter definition management ID	8 digits in hexadecimal
Filter.Name	string	Log filter name	Up to 256 characters
Filter[n].FilterType	number	Filter type	0: Storage filter 1: Deletion filter
Filter[n].MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation
Filter[n].MessageText	string	Message text condition	Up to 1024 characters
Filter[n].SelPos	object[]	Array of the SelPos conditions	-
Filter[n].SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelPos[m].Position	number	Comparison position	1: Origin

Parameter	Type	Description	Valid value
Filter[n].SelPos[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter[n].SelPos[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].SelKey	object[]	Array of the SelKey conditions	-
Filter[n].SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelKey[m].Key	string	Key character string	Up to 64 characters
Filter[n].SelKey[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter[n].SelKey[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].Severity	number	Displayed definition: Severity	* Output only when the filter type is storage filter.
Filter[n].Category	string	Displayed definition: Category name	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].Node	string	Displayed definition: Node name	Up to 256 characters * Output only when the filter type is storage filter.
Filter[n].Application	string	Displayed definition: Application name	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].Object	string	Displayed definition: Object name	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].MessageID	string	Displayed definition: Message ID	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].MessageIgnore	number	Message suppression function	0: Do not use the function 1: Use the function * Output only when the filter type is storage filter.
Filter[n].MessageIgnoreInterval	number	Message suppression interval	Unit: Second Integer in the range of 1 to 3600 * Output only when the filter type is storage filter.

Parameter	Type	Description	Valid value
Filter[n].MessageIgnoreP ssDelete	number	Suppression operation	0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter. * Output only when the filter type is storage filter.
Filter[n].MessageIgnoreRe set	number	Monitoring interval reset	0: Do not reset 1: Reset * Output only when the filter type is storage filter.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* If the NodeID of the filter that does not exist or the NodeID of the filter that is not located under the corresponding application log is specified, it is skipped.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/aplog/filter/AgentHost/07357972 HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, /*
Date: Fri, 13 May 2016 06:55:59 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQH4WOcJyLcbTp28IylwP4Q
hs=:+3kUWxFc2Y5ZWdHHXv/MIB7DAN8lQjj7H+wV/RGCmwE=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 85

{
  "Filter" : [ {
    "Name" : "Filter01",
    "FilterType" : 0,
    "MessageTextNot" : 0,
    "MessageText" : ".*"
  } ]
}
```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1220
Date: Fri, 13 May 2016 07:12:35 GMT

{
  "Filter" : [ {
    "MessageIgnore" : 0,
    "Node" : "AgentHost",
    "Application" : "application.log",
    "MessageIgnoreInterval" : 10,
    "SelKey" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    } ]
  }
}

```



```

        "ErrorMessage" : ""
    }
}

```

4.8.9 Adding the application log monitoring group

1. Process overview

Add the application log monitoring group.

2. HTTP method

POST

3. URL

/umf/fw/aplog/group/**AgentName**/**NodeID**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the node ID (agent/group) to be added in **NodeID**.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Name	string	Monitoring group name to be added	No	Up to 64 characters
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring group has been added successfully.
404	Not Found	The specified node does not exist. The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-

Parameter	Type	Description	Valid value
NodeID	string	Management ID of the added monitoring group	8 digits in hexadecimal
Name	string	Added monitoring group name	Up to 64 characters
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* The group with the same name as the existing monitoring group can be registered.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/aplog/group/AgentHost/0735761f HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, */*
Date: Fri, 13 May 2016 06:25:11 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQH4W0cJyLcbTp28IylwP4Q
hs=:roo5QGoBqS+RcANbUVRQOfXMZGYtggRRJ9FW1giEOH8=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 19

{
  "Name" : "APGroupX"
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 118
Date: Fri, 13 May 2016 06:41:47 GMT

{
```

```

    "Name" : "APGroupX",
    "NodeID" : "0735772a",
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}

```

4.8.10 Deleting the application log monitoring group

1. Process overview

Delete the specified application log monitoring group.
The application log monitoring settings located under the monitoring group are also deleted.

2. HTTP method

DELETE

3. URL

/umf/fw/aplog/group/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the monitoring group to be deleted in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring group has been deleted successfully.
404	Not Found	The specified monitoring group does not exist. The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-

Parameter	Type	Description	Valid value
NodeID	string	Management ID of the deleted monitoring group	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
DELETE /umf/fw/aplog/group/AgentHost/0735772a HTTP/1.1
Accept: application/json, /*
Date: Fri, 13 May 2016 07:32:48 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WoCJyLcbTp28IylwP4Q
hs=:4vGCB486CppYp/7vqJGX3MkeFNqCRKLKNfSL2aie7AY=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 100
Date: Fri, 13 May 2016 07:49:23 GMT

{
  "NodeID" : "0735772a",
  "Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
  }
}
```

4.8.11 Updating the application log monitoring group

1. Process overview

Update the specified application log monitoring group.

2. HTTP method

PUT

3. URL

/umf/fw/aplog/group/**AgentName**/**NodeID**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the node ID (monitoring group node) to be updated in **NodeID**.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Name	string	Monitoring group name to be updated	No	Up to 64 characters
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring group has been updated successfully.
400	Bad Request	The monitoring group name is not specified.
404	Not Found	The specified node does not exist. The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	Management ID of the updated monitoring group	8 digits in hexadecimal

Parameter	Type	Description	Valid value
			Not displayed if the monitoring settings have not been updated.
Name	string	Updated monitoring group name	Up to 64 characters Not displayed if the monitoring settings have not been updated.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* The group with the same name as the existing monitoring group can be registered.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
PUT /umf/fw/aplog/monitor/AgentHost/07357972 HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, /*
Date: Fri, 13 May 2016 07:18:41 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQH4W0cJyLcbTp28IylwP4Q
hs=:t2MK9KIwiUznm+PhTHVfaOGIVetRQbSR6fC9Mmwzk4=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 195

{
  "Application" : {
    "ApLogName" : "C:\\Program Files (x86) \\NEC\\application.log",
    "BackupLog" : 1,
    "BackupLogName" : ["C:\\Program Files (x86) \\NEC\\application.log.
1"]
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
```

```

X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 296
Date: Fri, 13 May 2016 07:35:16 GMT

{
    "Application" : {
        "ApLogName" : "C:\\Program Files (x86)\\NEC\\application.log",
        "Encode" : 932,
        "BackupLogName" : [ "C:\\Program Files (x86)\\NEC\\application.log
        .1" ],
        "BackupLog" : 1,
        "Name" : "application.log",
        "NodeID" : "07357972"
    },
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}

```

4.9 Event log monitoring

4.9.1 Obtaining the event log list

1. Process overview

Obtain the event log list information of the specified agent.

2. HTTP method

GET

3. URL

/umf/fw/eventlog/monitor/**AgentName**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The event log list information has been obtained successfully.
404	Not Found	The specified manager does not exist. The specified agent does not exist.

HTTP status code	Meaning	Description
		When the specified agent is stopped
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Agent	object[]	Array of agent information	-
Agent[n].Name	string	Agent name	Up to 64 characters
Agent[n].NodeID	string	Management ID of the agent	8 digits in hexadecimal
Agent[n].EventLog	object[]	Array of event logs	-
Agent[n].EventLog[m].Name	string	Event log name	Up to 32 characters
Agent[n].EventLog[m].NodeID	string	Management ID of the event log	8 digits in hexadecimal
Agent[n].EventLog[m].Filter	object[]	Array of the log filter to be monitored	-
Agent[n].EventLog[m].Filter[l].Name	string	Log filter name	Up to 256 characters
Agent[n].EventLog[m].Filter[l].NodeID	string	Management ID of the log filter	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/eventlog/monitor/AgentHost HTTP/1.1
Accept: application/json, */*
Date: Fri, 13 May 2016 07:53:45 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:8dRu1keW5CMXDRwrnzD2mwD9jN5tx/6mstiwbWBuYko=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
```

```
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 863
Date: Fri, 13 May 2016 08:10:21 GMT

{
  "Agent" : [ {
    "EventLog" : [ {
      "Filter" : [ {
        "Name" : "Default Filter",
        "NodeID" : "073536e2"
      } ],
      "Name" : "Application",
      "NodeID" : "07357620"
    }, {
      "Filter" : [ {
        "Name" : "Default Filter",
        "NodeID" : "073536e0"
      } ],
      "Name" : "HardwareEvents",
      "NodeID" : "073536e1"
    }, {
      "Filter" : [ {
        "Name" : "Default Filter",
        "NodeID" : "073536de"
      } ],
      "Name" : "Internet Explorer",
      "NodeID" : "073536df"
    }, {
      "Filter" : [ {
        "Name" : "Default Filter",
        "NodeID" : "073536dc"
      } ],
      "Name" : "Key Management Service",
      "NodeID" : "073536dd"
    }, {
      "Filter" : [ {
        "Name" : "Default Filter",
        "NodeID" : "073536da"
      } ],
      "Name" : "Security",
      "NodeID" : "073536db"
    }, {
      "Filter" : [ {
        "Name" : "Default Filter",
        "NodeID" : "073536d8"
      } ],
      "Name" : "System"
    } ]
  }
}
```

```

        "Name" : "System",
        "NodeID" : "073536d9"
    } , {
        "Filter" : [ {
            "Name" : "Default Filter",
            "NodeID" : "073536d6"
        } ],
        "Name" : "Windows PowerShell",
        "NodeID" : "073536d7"
    } ,
    "Name" : "AgentHost",
    "NodeID" : "0735761f"
} ,
"Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
}
}

```

4.9.2 Obtaining the event log filter definition list

1. Process overview

Obtain the event log filter definition list of the specified event log.

The objects are output in order of priority.

2. HTTP method

GET

3. URL

/umf/fw/eventlog/monitor/filter/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the target event log in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The log filter definition list has been obtained successfully.
404	Not Found	The specified node ID does not exist. The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped

HTTP status code	Meaning	Description
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Filter	object[]	Array of log filter definitions	-
Filter[n].NodeID	string	Log filter definition management ID	8 digits in hexadecimal
Filter[n].Name	string	Log filter name	Up to 256 characters
Filter[n].FilterType	number	Filter type	0: Storage filter 1: Deletion filter
Filter[n].NodeNot	number	Negation specification of the node name condition	0: Affirmation 1: Negation
Filter[n].Node	string	Node name condition	Up to 256 characters
Filter[n].ApplicationNot	number	Negation specification of the application name condition	0: Affirmation 1: Negation
Filter[n].Application	string	Application name condition	Up to 128 characters
Filter[n].ObjectNot	number	Negation specification of the object name condition	0: Affirmation 1: Negation
Filter[n].Object	string	Object name condition	Up to 128 characters
Filter[n].MessageIDNot	number	Negation specification of the message ID condition	0: Affirmation 1: Negation
Filter[n].MessageID	string	Message ID condition	Up to 128 characters
Filter[n].MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation
Filter[n].MessageText	string	Message text condition	Up to 1024 characters
Filter[n].SelPos	object[]	Array of the SelPos conditions	-
Filter[n].SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelPos[m].Position	number	Comparison position	1: Origin
Filter[n].SelPos[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter[n].SelPos[m].Value	string	Comparison character string	Up to 64 characters

Parameter	Type	Description	Valid value
Filter[n].SelKey	object[]	Array of the SelKey conditions	-
Filter[n].SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelKey[m].Key	string	Key character string	Up to 64 characters
Filter[n].SelKey[m].Comp areType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter[n].SelKey[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].SeverityNot	number	Negation specification of severity	0: Affirmation 1: Negation
Filter[n].Severity	number	Severity condition	0: Severity not specified 1: Success 2: Error 3: Warning 5: Information 9: Audit success 17: Audit failure
Filter[n].OverWriteSeverit y	number	Displayed definition: Severity change specification	If this item is not specified, 0 is assumed. * Output only when the filter type is storage filter.
Filter[n].OverWriteNode	string	Displayed definition: Node name change specification	If this item is not specified, a null character is assumed. * Output only when the filter type is storage filter.
Filter[n].MessageIgnore	number	Message suppression function	0: Do not use the function 1: Use the function * Output only when the filter type is storage filter.
Filter[n].MessageIgnoreInt erval	number	Message suppression interval	Unit: Second Integer in the range of 1 to 3600 * Output only when the filter type is storage filter.
Filter[n].MessageIgnorePa ssDelete	number	Suppression operation	0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter. * Output only when the filter type is storage filter.
Filter[n].MessageIgnoreRe set	number	Monitoring interval reset	0: Do not reset 1: Reset * Output only when the filter type is storage filter.
Manager	object	Manager object	-

Parameter	Type	Description	Valid value
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
GET /umf/fw/eventlog/monitor/filter/AgentHost/073536db HTTP/1.1
Accept: application/json, /*
Date: Fri, 13 May 2016 08:21:31 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHq4WOcJyLcbTp28IylwP4Q
hs=:DxogublQMaeqAb5H88cWmBYSRyeqYWrE47VcBW+z4Xs=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 2330
Date: Fri, 13 May 2016 08:38:06 GMT

{
  "Filter" : [ {
    "Node" : "",
    "Application" : "",
    "ObjectNot" : 0,
    "SelKey" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    } ]
  }
}
```

```

    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
}, [
    "MessageIDNot" : 0,
    "NodeNot" : 0,
    "Severity" : 0,
    "SelPos" : [ {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }
]

```

```
        },
        {
            "CompareType" : 0,
            "Type" : 0,
            "Value" : "",
            "Position" : 1
        },
        {
            "CompareType" : 0,
            "Type" : 0,
            "Value" : "",
            "Position" : 1
        },
        {
            "CompareType" : 0,
            "Type" : 0,
            "Value" : "",
            "Position" : 1
        }
    ],
    "Name" : "LogOnSuccess",
    "MessageTextNot" : 0,
    "MessageID" : "00004624",
    "NodeID" : "0735910b",
    "SeverityNot" : 0,
    "Object" : "",
    "FilterType" : 1,
    "ApplicationNot" : 0,
    "MessageText" : ""
},
{
    "MessageIgnore" : 0,
    "Node" : "",
    "Application" : "",
    "MessageIgnoreInterval" : 10,
    "ObjectNot" : 0,
    "SelKey" : [
        {
            "CompareType" : 0,
            "Type" : 0,
            "Key" : "",
            "Value" : ""
        },
        {
            "CompareType" : 0,
            "Type" : 0,
            "Key" : "",
            "Value" : ""
        },
        {
            "CompareType" : 0,
            "Type" : 0,
            "Key" : "",
            "Value" : ""
        },
        {
            "CompareType" : 0,
            "Type" : 0,
            "Key" : "",
            "Value" : ""
        },
        {
            "CompareType" : 0,
            "Type" : 0,
            "Key" : "",
            "Value" : ""
        }
    ]
}
```

```
"Type" : 0,
"Key" : "",
"Value" : ""
}, {
"CompareType" : 0,
"Type" : 0,
"Key" : "",
"Value" : ""
}, {
"CompareType" : 0,
"Type" : 0,
"Key" : "",
"Value" : ""
} ],
"MessageIgnorePassDelete" : 0,
"MessageIDNot" : 0,
"NodeNot" : 0,
"Severity" : 0,
"MessageIgnoreReset" : 0,
"OverWriteSeverity" : 0,
"SelPos" : [ {
"CompareType" : 0,
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
"Type" : 0,
```

```

        "Value" : "",
        "Position" : 1
    } ],
    "Name" : "Default Filter",
    "MessageTextNot" : 0,
    "MessageID" : "",
    "NodeID" : "073536d2",
    "SeverityNot" : 0,
    "Object" : "",
    "FilterType" : 0,
    "ApplicationNot" : 0,
    "OverWriteNode" : "",
    "MessageText" : ""
} ],
"Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
}
}

```

4.9.3 Obtaining the event log filter definition

1. Process overview

Obtain the event log filter definition of the specified event log.

2. HTTP method

GET

3. URL

/umf/fw/eventlog/filter/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the target event log filter in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The log filter definition has been obtained successfully.
404	Not Found	The specified node ID does not exist. The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped

HTTP status code	Meaning	Description
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Filter	object	Log filter definition	-
Filter.NodeID	string	Log filter definition management ID	8 digits in hexadecimal
Filter.Name	string	Log filter name	Up to 256 characters
Filter.FilterType	number	Filter type	0: Storage filter 1: Deletion filter
Filter.NodeNot	number	Negation specification of the node name condition	0: Affirmation 1: Negation
Filter.Node	string	Node name condition	Up to 256 characters
Filter.ApplicationNot	number	Negation specification of the application name condition	0: Affirmation 1: Negation
Filter.Application	string	Application name condition	Up to 128 characters
Filter.ObjectNot	number	Negation specification of the object name condition	0: Affirmation 1: Negation
Filter.Object	string	Object name condition	Up to 128 characters
Filter.MessageIDNot	number	Negation specification of the message ID condition	0: Affirmation 1: Negation
Filter.MessageID	string	Message ID condition	Up to 128 characters
Filter.MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation
Filter.MessageText	string	Message text condition	Up to 1024 characters
Filter.SelPos	object[]	Array of the SelPos conditions	-
Filter.SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter.SelPos[m].Position	number	Comparison position	1: Origin
Filter.SelPos[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter.SelPos[m].Value	string	Comparison character string	Up to 64 characters
Filter.SelKey	object[]	Array of the SelKey conditions	-

Parameter	Type	Description	Valid value
Filter.SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter.SelKey[m].Key	string	Key character string	Up to 64 characters
Filter.SelKey[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter.SelKey[m].Value	string	Comparison character string	Up to 64 characters
Filter.SeverityNot	number	Negation specification of severity	0: Affirmation 1: Negation
Filter.Severity	number	Severity condition	0: Severity not specified 1: Success 2: Error 3: Warning 5: Information 9: Audit success 17: Audit failure
Filter.OverWriteSeverity	number	Displayed definition: Severity change specification	If this item is not specified, 0 is assumed. * Output only when the filter type is storage filter.
Filter.OverWriteNode	string	Displayed definition: Node name change specification	If this item is not specified, a null character is assumed. * Output only when the filter type is storage filter.
Filter.MessageIgnore	number	Message suppression function	0: Do not use the function 1: Use the function * Output only when the filter type is storage filter.
Filter.MessageIgnoreInterval	number	Message suppression interval	Unit: Second Integer in the range of 1 to 3600 * Output only when the filter type is storage filter.
Filter.MessageIgnorePassDelete	number	Suppression operation	0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter. * Output only when the filter type is storage filter.
Filter.MessageIgnoreReset	number	Monitoring interval reset	0: Do not reset 1: Reset * Output only when the filter type is storage filter.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name

Parameter	Type	Description	Valid value
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/eventlog/filter/AgentHost/0735910b HTTP/1.1
Accept: application/json, /*
Date: Fri, 13 May 2016 08:26:16 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:iyte3sGxRUOpNqHmj2mPJqcDMAQhux4y7N15v3BxE=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1143
Date: Fri, 13 May 2016 08:42:51 GMT

{
  "Filter" : {
    "Node" : "",
    "Application" : "",
    "ObjectNot" : 0,
    "SelKey" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    } ]
  }
}
```

```

    "Key" : "",
    "Value" : ""
  }, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
  }, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
  }, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
  }, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
  }, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
  }, {
    "CompareType" : 0,
    "Type" : 0,
    "Key" : "",
    "Value" : ""
  }, [
    "MessageIDNot" : 0,
    "NodeNot" : 0,
    "Severity" : 0,
    "SelPos" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Value" : "",
      "Position" : 1
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Value" : "",
      "Position" : 1
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Value" : "",
      "Position" : 1
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Value" : "",
      "Position" : 1
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Value" : "",
      "Position" : 1
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Value" : "",
      "Position" : 1
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Value" : ""
    }
  ]
}

```

```

        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    } ],
    "Name" : "LogOnSuccess",
    "MessageTextNot" : 0,
    "MessageID" : "000004624",
    "NodeID" : "0735910b",
    "SeverityNot" : 0,
    "Object" : "",
    "FilterType" : 1,
    "ApplicationNot" : 0,
    "MessageText" : ""
},
"Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
}
}
}

```

4.9.4 Editing the event log filter definition

1. Process overview

Edit (add, delete, update and update the priority of) the event log filter definition in the specified event log.

Operation	Description
Addition	If Filter[n].NodeID (log filter management ID) is not specified, new filter information is added.
Update	If Filter[n].NodeID (log filter management ID) is specified, the matching filter information is updated. As for the parameters that can be omitted, if you specify only those items whose settings you want to modify, the remaining items are kept defined. By specifying "1: Do not modify" in Filter[n].NotModify (no modification flag), you can intentionally prevent the definitions from being updated.
Deletion	If you do not specify defined filter information, the defined filter information is deleted.
Priority order	This is set by the order of defined filters.

2. HTTP method

POST

3. URL

/umf/fw/eventlog/filter/**AgentName**/**NodeID**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the target event log in **NodeID**.

4. Parameter

Parameter	Type	Description	Omittable	Valid value
(Root)	object	Root object	No	-
Filter	object[]	Information on the log filter definition to be edited	No	-
Filter[n].NodeID	string	Log filter definition management ID		8 digits in hexadecimal If this item is omitted, the addition process is performed. If this item is omitted, the update process is performed.
Filter[n].NotModify	number	No change flag		0: Change 1: No change Used only when the filter is updated. If 0 is specified, the filter information is considered to have been changed and all the subsequent keys are checked. If 1 is specified, the filter information is considered to not have been changed and none of the subsequent keys is checked. * If you want to change only a specific filter, the order of priority, etc., specifying 1 in this key improves the processing performance. Default value: 0: Change
Filter[n].Name	string	Log filter name		Up to 256 characters Whether the key is required or not is as follows. When NodeID is omitted (add) : Required When NodeID is specified (update) : Optional
Filter[n].FilterType	number	Filter type		0: Storage filter 1: Deletion filter

Parameter	Type	Description	Optional or mandatory	Valid value
				Default value: 0: Storage filter
Filter[n].NodeNot	number	Negation specification of the node name condition		0: Affirmation 1: Negation Default value: 0: Positive
Filter[n].Node	string	Node name condition		Up to 256 characters Default value: null: No character string to compare If 1 is specified in Filter[n].NodeNot, this item must be specified.
Filter[n].ApplicationNot	number	Negation specification of the application name condition		0: Affirmation 1: Negation Default value: 0: Positive
Filter[n].Application	string	Application name condition		Up to 128 characters Default value: null: No character string to compare If 1 is specified in Filter[n].ApplicationNot, this item must be specified.
Filter[n].ObjectNot	number	Negation specification of the object name condition		0: Affirmation 1: Negation Default value: 0: Positive
Filter[n].Object	string	Object name condition		Up to 128 characters Default value: null: No character string to compare If 1 is specified in Filter[n].ObjectNot, this item must be specified.
Filter[n].MessageIDNot	number	Negation specification of the message ID condition		0: Affirmation 1: Negation Default value: 0: Positive
Filter[n].MessageID	string	Message ID condition		Up to 128 characters Default value: null: No character string to compare If 1 is specified in Filter[n].MessageIDNot, this item must be specified.
Filter[n].MessageTextNot	number	Negation specification of the message text condition		0: Affirmation 1: Negation Default value: 0: Positive
Filter[n].MessageText	string	Message text condition		Up to 1024 characters Default value: null: No character string to compare

Parameter	Type	Description	Optional item ble	Valid value
				If 1 is specified in Filter[n].MessageTextNot, this item must be specified.
Filter[n].SelPos	object[]	Array of the SelPos conditions		-
Filter[n].SelPos[m].Type	number	Negation specification		0: Affirmation 1: Negation Default value: 0: Positive
Filter[n].SelPos[m].Position	number	Comparison position		1: Origin (in the range of 1 to 1024) Default value: 1: 1st character If 1 is specified in Filter[n].SelPos[m].Type, this item must be specified.
Filter[n].SelPos[m].CompareType	number	Comparison type		0 := 1 :<> 2 :>= 3 :> 4 :<= 5 :< Default value: 0 := If 1 is specified in Filter[n].SelPos[m].Type, this item must be specified.
Filter[n].SelPos[m].Value	string	Comparison character string		Up to 64 characters Default value: -: No character string to compare If 1 is specified in Filter[n].SelPos[m].Type, this item must be specified.
Filter[n].SelKey	object[]	Array of the SelKey conditions		-
Filter[n].SelKey[m].Type	number	Negation specification		0: Affirmation 1: Negation Default value: 0: Positive
Filter[n].SelKey[m].Key	string	Key character string		Up to 64 characters Default value: null: No key character string If a value is specified in Filter[n].SelKey[m].Value, this item must be specified.
Filter[n].SelKey[m].CompareType	number	Comparison type		0 := 1 :<> 2 :>= 3 :>

Parameter	Type	Description	Omittable	Valid value
				4:<= 5:< Default value: 0:= If 1 is specified in Filter[n].SelKey[m].Type, this item must be specified.
Filter[n].SelKey[m].Value	string	Comparison character string		Up to 64 characters Default value: -: No character string to compare If a value is specified in Filter[n].SelKey[m].Key, this item must be specified. If 1 is specified in Filter[n].SelKey[m].Type, this item must be specified.
Filter[n].SeverityNot	number	Negation specification of severity		0: Affirmation 1: Negation Default value: 0: Positive
Filter[n].Severity	number	Severity condition		0: Severity not specified 1: Success 2: Error 3: Warning 5: Information 9: Audit success 17: Audit failure Default value: 0: Severity is not specified If 1 is specified in Filter[n].SeverityNot, this item must be specified.
Filter[n].OverWriteSeverity	number	Displayed definition: Severity change specification		Default value: 0: Not changed * Output only when the filter type is storage filter.
Filter[n].OverWriteNode	string	Displayed definition: Node name change specification		Up to 256 characters Default value: null: Not changed
Filter[n].MessageIgnore	number	Message suppression function		0: Do not use the function 1: Use the function Default value: 0: Function unused
Filter[n].MessageIgnoreInterval	number	Message suppression interval		Unit: Second Integer in the range of 1 to 3600 Default value: 10: 10 seconds of suppression intervals

Parameter	Type	Description	Omitable	Valid value
Filter[n].MessageIgnorePassDelete	number	Suppression operation		0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter. Default value: 0: The message within the monitoring intervals is deleted
Filter[n].MessageIgnoreReset	number	Monitoring interval reset		0: Do not reset 1: Reset Default value: 0: Not reset
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

- * If "1: Negation" was set to each negative condition and if the values such as the corresponding character string to be compared are omitted, an error occurs.
- * If the SelKey key character string and character to compare are input only to one side, an error occurs.
- * In addition, if "1: Deletion filter" was set to the filter type, the display definition and option definition (message suppression function) can be set. However, the message is handled as a deletion message and the function is not valid.
- * If the same NodeID is specified for more than one setting, the setting registered later is valid and an error does not occur.
- * If the management ID of the filter that does not exist or the management ID of the filter that is not located under the corresponding application log is specified, it is skipped and an error does not occur.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The event log filter definition has been edited successfully.
404	Not Found	The management ID of the specified event log does not exist. The specified manager does not exist. The specified agent does not exist. When the specified agent is stopped
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Filter	object[]	Array of log filter definitions	-
Filter[n].NodeID	string	Log filter definition management ID	8 digits in hexadecimal
Filter[n].Name	string	Log filter name	Up to 256 characters
Filter[n].FilterType	number	Filter type	0: Storage filter 1: Deletion filter
Filter[n].NodeNot	number	Negation specification of the node name condition	0: Affirmation 1: Negation
Filter[n].Node	string	Node name condition	Up to 256 characters
Filter[n].ApplicationNot	number	Negation specification of the application name condition	0: Affirmation 1: Negation
Filter[n].Application	string	Application name condition	Up to 128 characters
Filter[n].ObjectNot	number	Negation specification of the object name condition	0: Affirmation 1: Negation
Filter[n].Object	string	Object name condition	Up to 128 characters
Filter[n].MessageIDNot	number	Negation specification of the message ID condition	0: Affirmation 1: Negation
Filter[n].MessageID	string	Message ID condition	Up to 128 characters
Filter[n].MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation
Filter[n].MessageText	string	Message text condition	Up to 1024 characters
Filter[n].SelPos	object[]	Array of the SelPos conditions	-
Filter[n].SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelPos[m].Position	number	Comparison position	1: Origin
Filter[n].SelPos[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter[n].SelPos[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].SelKey	object[]	Array of the SelKey conditions	-
Filter[n].SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelKey[m].Key	string	Key character string	Up to 64 characters
Filter[n].SelKey[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:>

Parameter	Type	Description	Valid value
			4:<= 5:<
Filter[n].SelKey[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].SeverityNot	number	Negation specification of severity	0: Affirmation 1: Negation
Filter[n].Severity	number	Severity condition	0: Severity not specified 1: Success 2: Error 3: Warning 5: Information 9: Audit success 17: Audit failure
Filter[n].OverWriteSeverity	number	Displayed definition: Severity change specification	If this item is not specified, 0 is assumed. * Output only when the filter type is storage filter.
Filter[n].OverWriteNode	string	Displayed definition: Node name change specification	If this item is not specified, a null character is assumed. * Output only when the filter type is storage filter.
Filter[n].MessageIgnore	number	Message suppression function	0: Do not use the function 1: Use the function * Output only when the filter type is storage filter.
Filter[n].MessageIgnoreInterval	number	Message suppression interval	Unit: Second Integer in the range of 1 to 3600 * Output only when the filter type is storage filter.
Filter[n].MessageIgnorePassDelete	number	Suppression operation	0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter. * Output only when the filter type is storage filter.
Filter[n].MessageIgnoreReset	number	Monitoring interval reset	0: Do not reset 1: Reset * Output only when the filter type is storage filter.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
POST /umf/fw/eventlog/filter/AgentHost/073536db HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, /*
Date: Fri, 13 May 2016 08:15:36 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:Youjzs8YyE4V65V9k10jPL8yTQ1uC5fupzur9hxvCsE=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 186

{
  "Filter" : [ {
    "FilterType" : 1,
    "MessageID" : "00004624",
    "Name" : "LogOnSuccess",
    "OverWriteNode" : "AgentHost"
  }, {
    "Name" : "Default Filter"
  } ]
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 2330
Date: Fri, 13 May 2016 08:32:11 GMT

{
  "Filter" : [ {
    "Node" : "",
    "Application" : "",
    "ObjectNot" : 0,
    "SelKey" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : ""
    }
  }
}
```



```
        "Value" : "",  
        "Position" : 1  
, {  
        "CompareType" : 0,  
        "Type" : 0,  
        "Value" : "",  
        "Position" : 1  
, {  
        "CompareType" : 0,  
        "Type" : 0,  
        "Value" : "",  
        "Position" : 1  
, {  
        "CompareType" : 0,  
        "Type" : 0,  
        "Value" : "",  
        "Position" : 1  
    } ],  
    "Name" : "LogOnSuccess",  
    "MessageTextNot" : 0,  
    "MessageID" : "000004624",  
    "NodeID" : "0735910b",  
    "SeverityNot" : 0,  
    "Object" : "",  
    "FilterType" : 1,  
    "ApplicationNot" : 0,  
    "MessageText" : ""  
, {  
        "MessageIgnore" : 0,  
        "Node" : "",  
        "Application" : "",  
        "MessageIgnoreInterval" : 10,  
        "ObjectNot" : 0,  
        "SelKey" : [ {  
            "CompareType" : 0,  
            "Type" : 0,  
            "Key" : "",  
            "Value" : ""  
        }, {  
            "CompareType" : 0,  
            "Type" : 0,  
            "Key" : "",  
            "Value" : ""  
        }, {  
            "CompareType" : 0,  
            "Type" : 0,  
            "Key" : "",  
            "Value" : ""  
        }, {  
            "CompareType" : 0,  
            "Type" : 0,  
            "Key" : "",  
            "Value" : ""  
        }, {  
            "CompareType" : 0,  
            "Type" : 0,  
            "Key" : "",  
            "Value" : ""  
        }, {  
            "CompareType" : 0,  
            "Type" : 0,  
            "Key" : "",  
            "Value" : ""  
        }, {  
            "CompareType" : 0,  
            "Type" : 0,  
            "Key" : "",  
            "Value" : ""  
        }, {  
            "CompareType" : 0,  
            "Type" : 0,  
            "Key" : "",  
            "Value" : ""  
        } ]
```



```

        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    } ],
    "Name" : "Default Filter",
    "MessageTextNot" : 0,
    "MessageID" : "",
    "NodeID" : "073536d2",
    "SeverityNot" : 0,
    "Object" : "",
    "FilterType" : 0,
    "ApplicationNot" : 0,
    "OverWriteNode" : "",
    "MessageText" : ""
} ],
"Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
}
}

```

4.10 syslog monitoring

4.10.1 Obtaining the system log list

1. Process overview

Obtain the system log list information of the specified agent.

2. HTTP method

GET

3. URL

/umf/fw/syslog/monitor/**AgentName**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The system log list information has been obtained successfully.
404	Not Found	The specified agent name does not exist.

HTTP status code	Meaning	Description
		The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Agent	object[]	Array of agent information	-
Agent[n].Name	string	Agent name	Up to 64 characters
Agent[n].NodeID	string	Management ID of the agent	8 digits in hexadecimal
Agent[n].SysLog	object[]	Array of the system log	-
Agent[n].SysLog[m].Name	string	System log group name	Up to 256 characters
Agent[n].SysLog[m].SysLogName	string	Name of the monitored log file	Up to 256 characters
Agent[n].SysLog[m].NodeID	string	Management ID of the system log group	8 digits in hexadecimal
Agent[n].SysLog[m].Filter	object[]	Array of log filter definitions	-
Agent[n].SysLog[m].Filter[i].Name	string	Log filter name	Up to 256 characters
Agent[n].SysLog[m].Filter[i].NodeID	string	Log filter definition management ID	8 digits in hexadecimal
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/syslog/monitor/AgentHost HTTP/1.1
Accept: application/json, */*
Date: Mon, 16 May 2016 01:34:27 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4W0cJyLcbTp28IylwP4Q
hs=:/oZ9z8opnP4QwA984YsIVHp7sh6sIhnixtpKRMRa47k=
X-FW-API-Version: 1.0
```

```
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 906
Date: Mon, 16 May 2016 01:51:05 GMT

{
  "Agent" : [ {
    "SysLog" : [ {
      "SysLogName" : "/var/log/messages",
      "Filter" : [ {
        "Name" : "Default Filter",
        "NodeID" : "073536ee"
      } ],
      "Name" : "messages",
      "NodeID" : "07353998"
    }, {
      "SysLogName" : "/var/log/secure",
      "Filter" : [ {
        "Name" : "Default Filter",
        "NodeID" : "073536ec"
      } ],
      "Name" : "secure",
      "NodeID" : "073536ed"
    }, {
      "SysLogName" : "/var/log/cron",
      "Filter" : [ {
        "Name" : "Default Filter",
        "NodeID" : "073536e8"
      } ],
      "Name" : "cron",
      "NodeID" : "073536e9"
    }, {
      "Name" : "AgentHost",
      "NodeID" : "07353996"
    } ],
    "Manager" : {
      "Name" : "localhost",
      "Status" : 200,
      "StatusCode" : 200,
      "ErrorMessage" : ""
    }
  }
```

4.10.2 Obtaining the system log filter definition list

1. Process overview

Obtain the system log filter definition list of the specified system log.

The obtained filter definition lists are output in order of priority.

2. HTTP method

GET

3. URL

/umf/fw/syslog/monitor/filter/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the target system log in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The log filter definition list has been obtained successfully.
404	Not Found	The specified node ID does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Filter	object[]	Array of log filter definitions	-
Filter[n].NodeID	string	Log filter definition management ID	8 digits in hexadecimal
Filter[n].Name	string	Log filter name	Up to 256 characters
Filter[n].FilterType	number	Filter type	0: Storage filter 1: Deletion filter
Filter[n].MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation
Filter[n].MessageText	string	Message text condition	Up to 1024 characters

Parameter	Type	Description	Valid value
Filter[n].SelPos	object[]	Array of the SelPos conditions	-
Filter[n].SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelPos[m].Position	number	Comparison position	1: Origin
Filter[n].SelPos[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter[n].SelPos[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].SelKey	object[]	Array of the SelKey conditions	-
Filter[n].SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelKey[m].Key	string	Key character string	Up to 64 characters
Filter[n].SelKey[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter[n].SelKey[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].Severity	number	Displayed definition: Severity	* Output only when the filter type is storage filter.
Filter[n].Category	string	Displayed definition: Category name	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].Node	string	Displayed definition: Node name	Up to 256 characters * Output only when the filter type is storage filter.
Filter[n].Application	string	Displayed definition: Application name	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].Object	string	Displayed definition: Object name	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].MessageID	string	Displayed definition: Message ID	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].MessageIgnore	number	Message suppression function	0: Do not use the function 1: Use the function

Parameter	Type	Description	Valid value
			* Output only when the filter type is storage filter.
Filter[n].MessageIgnoreInterval	number	Message suppression interval	Unit: Second Integer in the range of 1 to 3600 * Output only when the filter type is storage filter.
Filter[n].MessageIgnorePassDelete	number	Suppression operation	0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter. * Output only when the filter type is storage filter.
Filter[n].MessageIgnoreReset	number	Monitoring interval reset	0: Do not reset 1: Reset * Output only when the filter type is storage filter.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/syslog/monitor/filter/AgentHost/07353998 HTTP/1.1
Accept: application/json, /*
Date: Mon, 16 May 2016 01:43:33 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQH4WoCJyLcbTp28IylwP4Q
hs=:LL3Tq68n/uK9bmhzQfThpHQrRh9QnJ6CdHFe4Sc/75Q=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
```

```

X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1202
Date: Mon, 16 May 2016 02:00:11 GMT

{
  "Filter" : [ {
    "MessageIgnore" : 0,
    "Node" : "AgentHost",
    "Application" : "0000",
    "MessageIgnoreInterval" : 10,
    "SelKey" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    } ],
    "MessageIgnorePassDelete" : 0,
    "Severity" : 264,
    "MessageIgnoreReset" : 0,
    "SelPos" : [ {
      "CompareType" : 0,

```

```
"Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, {
"CompareType" : 0,
>Type" : 0,
"Value" : "",
"Position" : 1
}, ],
>Name" : "Default Filter",
"MessageID" : "0000",
"MessageTextNot" : 0,
"NodeID" : "073536ee",
"Object" : "0000",
"FilterType" : 0,
"Category" : "messages",
"MessageText" : ""
} ],
"Manager" : {
>Name" : "localhost",
>Status" : 200,
>Statuscode" : 200,
"ErrorMessage" : ""
}
```

4.10.3 Obtaining the system log filter definition

1. Process overview

Obtain the specified system log filter definition.

2. HTTP method

GET

3. URL

/umf/fw/syslog/filter/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the filter ID to be obtained in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The log filter definition has been obtained successfully.
404	Not Found	The specified filter ID does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Filter	object	Log filter definition	-
Filter.NodeID	string	Log filter definition management ID	8 digits in hexadecimal
Filter.Name	string	Log filter name	Up to 256 characters
Filter.FilterType	number	Filter type	0: Storage filter 1: Deletion filter
Filter.MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation
Filter.MessageText	string	Message text condition	Up to 1024 characters
Filter.SelPos	object[]	Array of the SelPos conditions	-
Filter.SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation

Parameter	Type	Description	Valid value
Filter.SelPos[m].Position	number	Comparison position	1: Origin
Filter.SelPos[m].Compare Type	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter.SelPos[m].Value	string	Comparison character string	Up to 64 characters
Filter.SelKey	object[]	Array of the SelKey conditions	-
Filter.SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter.SelKey[m].Key	string	Key character string	Up to 64 characters
Filter.SelKey[m].Compare Type	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter.SelKey[m].Value	string	Comparison character string	Up to 64 characters
Filter.Severity	number	Displayed definition: Severity	* Output only when the filter type is storage filter.
Filter.Category	string	Displayed definition: Category name	Up to 32 characters * Output only when the filter type is storage filter.
Filter.Node	string	Displayed definition: Node name	Up to 256 characters * Output only when the filter type is storage filter.
Filter.Application	string	Displayed definition: Application name	Up to 32 characters * Output only when the filter type is storage filter.
Filter.Object	string	Displayed definition: Object name	Up to 32 characters * Output only when the filter type is storage filter.
Filter.MessageID	string	Displayed definition: Message ID	Up to 32 characters * Output only when the filter type is storage filter.
Filter.MessageIgnore	number	Message suppression function	0: Do not use the function 1: Use the function * Output only when the filter type is storage filter.
Filter.MessageIgnoreInterval	number	Message suppression interval	Unit: Second Integer in the range of 1 to 3600

Parameter	Type	Description	Valid value
			* Output only when the filter type is storage filter.
Filter.MessageIgnorePassDelete	number	Suppression operation	0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter. * Output only when the filter type is storage filter.
Filter.MessageIgnoreReset	number	Monitoring interval reset	0: Do not reset 1: Reset * Output only when the filter type is storage filter.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
GET /umf/fw/syslog/filter/AgentHost/073536ee HTTP/1.1
Accept: application/json, /*
Date: Mon, 16 May 2016 01:49:39 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:7p2F8fv1O3w3sKbSrGhQjDBQEFLnEbv2v3rkqMBqqNs=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1200
Date: Mon, 16 May 2016 02:06:18 GMT
```

```
{
  "Filter" : {
    "MessageIgnore" : 0,
    "Node" : "AgentHost",
    "Application" : "0000",
    "MessageIgnoreInterval" : 10,
    "SelKey" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    } ],
    "MessageIgnorePassDelete" : 0,
    "Severity" : 264,
    "MessageIgnoreReset" : 0,
    "SelPos" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Value" : "",
      "Position" : 1
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Value" : ""
    } ]
  }
}
```

```

        "Value" : "",
        "Position" : 1
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }
],
{
    "Name" : "Default Filter",
    "MessageID" : "0000",
    "MessageTextNot" : 0,
    "NodeID" : "073536ee",
    "Object" : "0000",
    "FilterType" : 0,
    "Category" : "messages",
    "MessageText" : ""
},
{
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}

```

4.10.4 Editing the system log filter definition

1. Process overview

Edit (add, delete, update, update the priority order) the log filter definition in the specified system log.

Operation	Description
Addition	If Filter[n].NodeID (log filter management ID) is not specified, new filter information is added.
Update	If Filter[n].NodeID (log filter management ID) is specified, the matching filter information is updated. As for the parameters that can be omitted, if you specify only those items whose settings you want to modify, the remaining items are kept defined. By specifying "1: Do not modify" in Filter[n].NotModify (no modification flag), you can intentionally prevent the definitions from being updated.
Deletion	If you do not specify defined filter information, the defined filter information is deleted.
Priority order	This is set by the order of defined filters.

2. HTTP method

POST

3. URL

/umf/fw/syslog/filter/**AgentName**/**NodeID**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the target system log in **NodeID**.

4. Parameter

Parameter	Type	Description	Omitable	Valid value
(Root)	object	Root object	No	-
Filter	object[]	Information on the log filter definition to be edited	No	-
Filter[n].NodeID	string	Log filter definition management ID		8 digits in hexadecimal If this item is omitted, the addition process is performed. If this item is omitted, the update process is performed.
Filter[n].NotModify	number	No change flag		0: Change 1: No change Used only when the filter is updated. If 0 is specified, the filter information is considered to have been changed and all the subsequent keys are checked. If 1 is specified, the filter information is considered to

Parameter	Type	Description	Omittable	Valid value
				<p>not have been changed and none of the subsequent keys is checked. * If you want to change only a specific filter, the order of priority, etc., specifying 1 in this key improves the processing performance.</p> <p>Default value: 0: Change</p>
Filter[n].Name	string	Log filter name		<p>Up to 256 characters</p> <p>Whether the key is required or not is as follows. When NodeID is omitted (add) : Required When NodeID is specified (update) : Optional</p>
Filter[n].FilterType	number	Filter type		<p>0: Storage filter 1: Deletion filter</p> <p>Default value: 0: Storage filter</p>
Filter[n].MessageText Not	number	Negation specification of the message text condition		<p>0: Affirmation 1: Negation</p> <p>Default value: 0: Positive</p>
Filter[n].MessageText	string	Message text condition		<p>Up to 1024 characters</p> <p>Default value: null: No character string to compare</p> <p>If 1 is specified in Filter[n].MessageTextNot, this item must be specified.</p>
Filter[n].SelPos	object[]	Array of the SelPos conditions		-
Filter[n].SelPos[m].Type	number	Negation specification		<p>0: Affirmation 1: Negation</p> <p>Default value: 0: Positive</p>
Filter[n].SelPos[m].Position	number	Comparison position		<p>1: Origin (in the range of 1 to 1024)</p> <p>Default value: 1: 1st character</p> <p>If 1 is specified in Filter[n].SelPos[m].Type, this item must be specified.</p>
Filter[n].SelPos[m].CompareType	number	Comparison type		<p>0:= 1:<> 2:>= 3:> 4:<= 5:<</p>

Parameter	Type	Description	Optional	Valid value
				Default value: 0:= If 1 is specified in Filter[n].SelPos[m].Type, this item must be specified.
Filter[n].SelPos[m].Value	string	Comparison character string		Up to 64 characters Default value: -: No character string to compare If 1 is specified in Filter[n].SelPos[m].Type, this item must be specified.
Filter[n].SelKey	object[]	Array of the SelKey conditions		-
Filter[n].SelKey[m].Type	number	Negation specification		0: Affirmation 1: Negation Default value: 0: Positive
Filter[n].SelKey[m].Key	string	Key character string		Up to 64 characters Default value: null: No key character string If a value is specified in Filter[n].SelKey[m].Value, this item must be specified.
Filter[n].SelKey[m].CompareType	number	Comparison type		0:= 1:<> 2:>= 3:> 4:<= 5:< Default value: 0:= If 1 is specified in Filter[n].SelKey[m].Type, this item must be specified.
Filter[n].SelKey[m].Value	string	Comparison character string		Up to 64 characters Default value: -: No character string to compare If a value is specified in Filter[n].SelKey[m].Key, this item must be specified. If 1 is specified in Filter[n].SelKey[m].Type, this item must be specified.
Filter[n].Severity	number	Displayed definition: Severity		* Output only when the filter type is storage filter. Default value: 264: Normal

Parameter	Type	Description	Omittable	Valid value
Filter[n].Category	string	Displayed definition: Category name		Up to 32 characters Default value: Higher system log group name of the relevant filter
Filter[n].Node	string	Displayed definition: Node name		Up to 256 characters Default value: Name of the agent to which the relevant filter was added
Filter[n].Application	string	Displayed definition: Application name		Up to 32 characters * If 1 (deletion filter) is specified in FilterType, this item does not need to be specified.
Filter[n].Object	string	Displayed definition: Object name		Up to 32 characters Default value: SysLogMonitor
Filter[n].MessageID	string	Displayed definition: Message ID		Up to 32 characters Default value: 0000
Filter[n].MessageIgnore	number	Message suppression function		0: Do not use the function 1: Use the function Default value: 0: Function is not used
Filter[n].MessageIgnoreInterval	number	Message suppression interval		Unit: Second Integer in the range of 1 to 3600 Default value: 10: 10 seconds of suppression intervals
Filter[n].MessageIgnorePassDelete	number	Suppression operation		0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter. Default value: 0: Deleting the message within the monitoring intervals
Filter[n].MessageIgnoreReset	number	Monitoring interval reset		0: Do not reset 1: Reset Default value: 0: Not reset
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name

* If "1: Negation" was set to each negative condition and if the corresponding values such as character string to compare are omitted, an error occurs.

- * If the SelKey key character string and character string to compare are input only to one side, an error occurs.
- * In addition, if "1: Deletion filter" is set to the filter type, the display definition and option definition (message suppression function) can be set. However, the message is handled as a deletion message and the function is not valid.
- * If the same NodeID is specified for more than one setting, the setting registered later is valid and an error does not occur.

If a management ID of the log filter that does not exist or a management ID of the log filter that does not belong to the relevant event log is specified, it is skipped and an error does not occur.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The system log filter definition has been edited successfully.
404	Not Found	The management ID of the specified system log does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
Filter	object[]	Array of log filter definitions	-
Filter[n].NodeID	string	Log filter definition management ID	8 digits in hexadecimal
Filter.Name	string	Log filter name	Up to 256 characters
Filter[n].FilterType	number	Filter type	0: Storage filter 1: Deletion filter
Filter[n].MessageTextNot	number	Negation specification of the message text condition	0: Affirmation 1: Negation
Filter[n].MessageText	string	Message text condition	Up to 1024 characters
Filter[n].SelPos	object[]	Array of the SelPos conditions	-
Filter[n].SelPos[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelPos[m].Position	number	Comparison position	1: Origin
Filter[n].SelPos[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<

Parameter	Type	Description	Valid value
Filter[n].SelPos[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].SelKey	object[]	Array of the SelKey conditions	-
Filter[n].SelKey[m].Type	number	Negation specification	0: Affirmation 1: Negation
Filter[n].SelKey[m].Key	string	Key character string	Up to 64 characters
Filter[n].SelKey[m].CompareType	number	Comparison type	0:= 1:<> 2:>= 3:> 4:<= 5:<
Filter[n].SelKey[m].Value	string	Comparison character string	Up to 64 characters
Filter[n].Severity	number	Displayed definition: Severity	* Output only when the filter type is storage filter.
Filter[n].Category	string	Displayed definition: Category name	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].Node	string	Displayed definition: Node name	Up to 256 characters * Output only when the filter type is storage filter.
Filter[n].Application	string	Displayed definition: Application name	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].Object	string	Displayed definition: Object name	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].MessageID	string	Displayed definition: Message ID	Up to 32 characters * Output only when the filter type is storage filter.
Filter[n].MessageIgnore	number	Message suppression function	0: Do not use the function 1: Use the function * Output only when the filter type is storage filter.
Filter[n].MessageIgnoreInterval	number	Message suppression interval	Unit: Second Integer in the range of 1 to 3600 * Output only when the filter type is storage filter.
Filter[n].MessageIgnorePassDelete	number	Suppression operation	0: Delete messages detected during the monitoring period. 1: Apply messages detected during the monitoring period to the subsequent filter.

Parameter	Type	Description	Valid value
			* Output only when the filter type is storage filter.
Filter[n].MessageIgnoreReset	number	Monitoring interval reset	0: Do not reset 1: Reset * Output only when the filter type is storage filter.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

* If NodeID of a filter that does not exist or NodeID of a filter that is not located under the corresponding system log is specified, it is skipped.

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
POST /umf/fw/syslog/filter/AgentHost/07353998 HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, */*
Date: Mon, 16 May 2016 02:01:59 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:dJZ49+O2eCHbYLPq8bvnWo9hSd0TZjowCbQCNq2jXFI=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 107

{
  "Filter" : [ {
    "Name" : "Filter01",
    "FilterType" : 1,
    "MessageText" : "Normal"
  }, {
    "NodeID" : "073536ee",
    "NotModify" : 0
  } ]
}
```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 2105
Date: Mon, 16 May 2016 02:29:50 GMT

{
  "Filter" : [ {
    "SelKey" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    }, {
      "CompareType" : 0,
      "Type" : 0,
      "Key" : "",
      "Value" : ""
    } ],
    "SelPos" : [ {
      "CompareType" : 0,
      "Type" : 0,
      "Value" : "",
      "Position" : 1
    } ]
  }
}

```



```

        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    }, {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "",
        "Position" : 1
    } ],
    "Name" : "Default Filter",
    "MessageID" : "0000",
    "MessageTextNot" : 0,
    "NodeID" : "073536ee",
    "Object" : "0000",
    "FilterType" : 0,
    "Category" : "messages",
    "MessageText" : ""
} ],
"Manager" : {
    "Name" : "localhost",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : ""
}
}

```

4.10.5 Obtaining the common option of the system log filter definition

1. Process overview

Obtain the information on the common option of the log filter definition corresponding to the specified system log management ID.

2. HTTP method

GET

3. URL

/umf/fw/syslog/filter/option/**AgentName**/**NodeID**?ManagerName=**ManagerName**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the target system log in **NodeID**.

When more than one manager exists, specify the manager name acquired by getting the topology tree configuration in **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The log filter definition option information has been obtained successfully.
404	Not Found	The specified node ID does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value																								
(Root)	object	Root object	-																								
NodeID	string	System log management ID to be obtained	-																								
SameMessage	number	Identical message suppression function	0: Do not use the function 1: Use the function																								
SameMessageCount	number	Number of messages	Integer in the range of 256 to 4096																								
SameMessageInterval	number	Message suppression monitoring interval	Unit: Second Integer in the range of 1 to 3600																								
SameMessageReset	number	Monitoring interval reset	0: Do not reset 1: Reset																								
SameMessageNumeric	number	Exclude numerical values	0: Do not exclude 1: Exclude																								
LostPos	number	Function to transmit all log messages if monitoring cannot be continued	0: Do not use the function 1: Use the function																								
Encode	number	Character codes for encoding	<table border="1"> <thead> <tr> <th>Setting value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>54936</td> <td>GB18030</td> </tr> <tr> <td>936</td> <td>gb2312</td> </tr> <tr> <td>950</td> <td>big5</td> </tr> <tr> <td>20932</td> <td>EUC-JP</td> </tr> <tr> <td>50220</td> <td>iso-2022-jp</td> </tr> <tr> <td>932</td> <td>shift_jis</td> </tr> <tr> <td>1200</td> <td>utf-16</td> </tr> <tr> <td>1201</td> <td>unicodeFFFE</td> </tr> <tr> <td>65001</td> <td>utf-8</td> </tr> <tr> <td>20127</td> <td>us-ascii</td> </tr> <tr> <td>0</td> <td>Default value</td> </tr> </tbody> </table>	Setting value	Description	54936	GB18030	936	gb2312	950	big5	20932	EUC-JP	50220	iso-2022-jp	932	shift_jis	1200	utf-16	1201	unicodeFFFE	65001	utf-8	20127	us-ascii	0	Default value
Setting value	Description																										
54936	GB18030																										
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1201	unicodeFFFE																										
65001	utf-8																										
20127	us-ascii																										
0	Default value																										
BackupLog	number	Backup log specification	0: Do not specify 1: Specify																								
BackupLogName	string	Backup log name	Up to 256 characters																								

Parameter	Type	Description	Valid value
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager for managing the target resource MoM name or RM name
Manager.ErrorMessage	string	Error messages	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added.

8. JSON example

[Request]

```
GET /umf/fw/syslog/filter/option/AgentHost/07353998 HTTP/1.1
Accept: application/json, /*
Date: Mon, 16 May 2016 02:21:17 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4W0cJyLcbTp28IylwP4Q
hs=:lcyZ+tqxfjAlft6EYZ0w5JTpG07dVrfcGs5dXj0TZaw=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 265
Date: Mon, 16 May 2016 02:37:55 GMT

{
    "SameMessageInterval" : 10,
    "Encode" : 0,
    "SameMessage" : 0,
    "BackupLogName" : "",
    "BackupLog" : 0,
    "SameMessageNumeric" : 0,
    "LostPos" : 1,
    "SameMessageReset" : 0,
    "SameMessageCount" : 1024,
    "NodeID" : "07353998",
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
```

```

        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}

```

4.10.6 Updating the common option of the system log filter definition

1. Process overview

Update the common option of the information on the log filter definition corresponding to the specified system log management ID. If the requirement condition is set to "Optional", specify only the settings to be changed so that the remaining settings maintain the status before update.

2. HTTP method

PUT

3. URL

/umf/fw/syslog/filter/option/**AgentName**/**NodeID**

In **AgentName**, specify the target agent name. Specify the agent name by using up to 64 characters.

Specify the management ID of the target system log in **NodeID**.

4. Parameters

Parameter	Type	Description	Omittable	Valid value						
(Root)	object	Root object	No	-						
SameMessage	number	Identical message suppression function		0: Do not use the function 1: Use the function						
SameMessageCount	number	Number of messages		Integer in the range of 256 to 4096						
SameMessageInterval	number	Message suppression monitoring interval		Unit: Second Integer in the range of 1 to 3600						
SameMessageReset	number	Monitoring interval reset		0: Do not reset 1: Reset						
SameMessageNumeric	number	Exclude numerical values		0: Do not exclude 1: Exclude						
LostPos	number	Function to transmit all log messages if monitoring cannot be continued		0: Do not use the function 1: Use the function						
Encode	number	Character codes for encoding		<table border="1"> <thead> <tr> <th>Setting value</th><th>Description</th></tr> </thead> <tbody> <tr> <td>54936</td><td>GB18030</td></tr> <tr> <td>936</td><td>gb2312</td></tr> </tbody> </table>	Setting value	Description	54936	GB18030	936	gb2312
Setting value	Description									
54936	GB18030									
936	gb2312									

Parameter	Type	Description	Omittable	Valid value																				
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65001	utf-8																							
20127	us-ascii																							
0	Default value																							
BackupLog	number	Backup log specification		0: Do not specify 1: Specify																				
BackupLogName	string	Backup log name		Up to 256 characters * The backup log name is required if 1 is specified for the backup log.																				
Manager	object	Manager object		-																				
Manager.Name	string	Manager name		Name of the manager for managing the target resource MoM name or RM name																				

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The log filter definition option information has been update successfully.
404	Not Found	The specified node ID does not exist. The specified manager does not exist.
409	Conflict	The specified resource cannot be uniquely identified because there is more than one identical resource. * This occurs when the manager name is omitted.

6. Response

Parameter	Type	Description	Valid value
(Root)	object	Root object	-
NodeID	string	System log management ID to be obtained	-
SameMessage	number	Identical message suppression function	0: Do not use the function 1: Use the function
SameMessageCount	number	Number of messages	Integer in the range of 256 to 4096

Parameter	Type	Description	Valid value																								
SameMessageInterval	number	Message suppression monitoring interval	Unit: Second Integer in the range of 1 to 3600																								
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Manager.ErrorMessage	string	Error messages	-																								
Manager.Status	number	Communication error code	-																								
Manager.StatusCode	number	Internal error code	-																								

* The information on the common option of the log filter definition is not output if the contents of the information were not updated,

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
PUT /umf/fw/syslog/filter/option/AgentHost/07353998 HTTP/1.1
Content-Type: application/json; charset=utf-8
Accept: application/json, */*
```

```

Date: Mon, 16 May 2016 02:28:46 GMT
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4WOcJyLcbTp28IylwP4Q
hs=:okaFixLh3SuVPI6IzoV2upxT3/YauV90AnOpek5LzOA=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
Content-Length: 82

{
    "SameMessage" : 1,
    "SameMessageReset" : 1,
    "SameMessageCount" : 1024
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 265
Date: Mon, 16 May 2016 02:45:24 GMT

{
    "SameMessageInterval" : 10,
    "Encode" : 0,
    "SameMessage" : 1,
    "BackupLogName" : "",
    "BackupLog" : 0,
    "SameMessageNumeric" : 0,
    "LostPos" : 1,
    "SameMessageReset" : 1,
    "SameMessageCount" : 1024,
    "NodeID" : "07353998",
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
}

```

4.11 Scheduler

4.11.1 Obtaining a schedule list

1. Process overview

Obtain the schedule list.

2. HTTP method

GET

3. URL

/umf/fw/schedule/schedules/**FunctionID/Mode**?ManagerName=**ManagerName**

Specify the schedule definition ID in **FunctionID**.

FunctionID cannot be omitted.

For the function names corresponding to the schedule function ID, see "[List of function ID and function name \(page 353\)](#)".

Specify the operation mode of the schedule in **Mode**.

0: Time schedule mode (Failover can be specified)

1: Period schedule mode

2: Time schedule mode (Failover cannot be specified)

ManagerName cannot be omitted.

For an environment where more than one manager exists, specify the target manager name as **ManagerName**.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The schedule list has been obtained successfully.
400	Bad Request	Parameter error
404	Not Found	The manager does not exist.
409	Conflict	More than one specified resource exists, and it cannot be identified uniquely. * Occurs if ManagerName is omitted.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Schedule	object[]	Array of the schedule settings	-
Schedule[n].ID	string	Schedule definition ID	Eight-digit hexadecimal character string that uniquely identifies the schedule in the manager
Schedule[n].Name	string	Schedule name	1 to 64 characters
Schedule[n].FunctionID	string	Schedule function ID	Eight-digit hexadecimal number

Parameter	Data type	Description	Valid value
			For the function names corresponding to the schedule function ID, see "List of function ID and function name (page 353)".
Schedule[n].CalendarID	string	Calendar ID to which the schedule belongs	Eight-digit hexadecimal number
Schedule[n].Mode	number	Operation mode of schedule	0: Time schedule (Failover can be specified) 1: Period schedule 2: Time schedule (Failover cannot be specified)
Schedule[n].Manager	object	Manager object	-
Schedule[n].Manager.Name	string	Manager name	Name of the manager in which the schedule exists, MoM name, or RM name
Schedule[n].Manager.ErrorMessage	string	Error message	-
Schedule[n].Manager.Status	number	Communication error code	-
Schedule[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0
 - Newly added

8. JSON example

[Request]

```
GET /umf/fw/schedule/schedules/FFFFFFF/1?ManagerName=mco-RM HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAffEu5MRW4VeIyAtw=:03rhfOK5YzLd+v8zf7y4YMQffbvbVAPj5XWgS0tLme4Q=
X-FW-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 376
```

```

Date: Thu, 17 Mar 2016 07:40:45 GMT

{
    "Schedule" : [
        {
            "Mode" : 1,
            "FunctionID" : "ffffffff",
            "Name" : "Schedule01",
            "ID" : "56e90e4a",
            "CalendarID" : "56e7ba3e",
            "Manager" : {
                "Name" : "mco-RM",
                "Status" : 200,
                "StatusCode" : 200,
                "ErrorMessage" : "200 OK"
            }
        },
        {
            "Mode" : 1,
            "FunctionID" : "ffffffff",
            "Name" : "Schedule02",
            "ID" : "56ea647f",
            "CalendarID" : "56e7ba3e",
            "Manager" : {
                "Name" : "mco-RM",
                "Status" : 200,
                "StatusCode" : 200,
                "ErrorMessage" : "200 OK"
            }
        }
    ]
}

```

4.11.2 Obtaining schedule details

1. Process overview

Obtain the detailed information on the specified schedule.

2. HTTP method

GET

3. URL

/umf/fw/schedule/schedules/**ID**?ManagerName=**ManagerName**

Specify the schedule definition ID in **ID**.

Specify using the eight-digit hexadecimal character string in **ID**.

ID cannot be omitted.

Specify the name of the manager for which the definition is obtained in **ManagerName**.

ManagerName cannot be omitted.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The detailed information has been obtained successfully.
400	Bad Request	Parameter error
404	Not Found	The schedule does not exist.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Schedule	object	Schedule object	-
Schedule.Name	string	Schedule name	1 to 64 characters
Schedule.FunctionID	string	Schedule function ID	Eight-digit hexadecimal number For the function names corresponding to the schedule function ID, see " List of function ID and function name (page 353) ".
Schedule.CalendarID	string	Calendar ID to which the schedule belongs	Eight-digit hexadecimal number
Schedule.Mode	string	Operation mode of schedule	0: Time schedule (Failover can be specified) 1: Period schedule 2: Time schedule (Failover cannot be specified)
Schedule.NotifyFailOver	boolean	Schedule report setting in the case of a failover	true: Report 0: Do not report This is valid if Mode is set to 0 (time schedule).
Schedule.PastTime	string	Time to track back to the previous schedule that was not reported	A value can be specified within the range of 1 minute to 6 days and 23 hours and 59 minutes Report the schedule in dhhmm format. Valid if NotifyFailOver is set to true (Reported).
Schedule.PastTimeCount	number	Specify whether to report all the previous schedules in the cycle that were not reported or to report the most recent	0: All schedules are reported. 1: The most recent schedule is reported once. Valid if NotifyFailOver is set to true (Reported).

Parameter	Data type	Description	Valid value
		schedule once.	
Schedule.Rule	object[]	Rule array	-
Schedule.Rule[n].Type	number	Schedule rule type	0: Operating day/Every day 1: Repetition of operating day/Intervals of XX days 2: Every week 3: Every month (date) 4: Every month (day of week) 5: Every year (date) 6: Every year (day of week) 7: Specific day 8: Continuous days
Schedule.Rule[n].Year	number	Year	1971 to 2036 Valid if the rule type is set to 7 (Specific day).
Schedule.Rule[n].Month	number	Month	1 to 12 Valid if the rule type is set to 5 (Every year (date)), 6 (Every year (day of week)), or 7 (Specific day).
Schedule.Rule[n].Day	number	Day	1 to 31: Specified date 99: End of the month Valid if the rule type is set to 5 (Every year (date)), 6 (Every year (day of week)), or 7 (Specific day).
Schedule.Rule[n].Week	number	Indicates the number of the specific day of the week in the month in combination with Schedule.Rule[n].DayOfWeek. The values from 0 to 4 are used.	0: First 1: Second 2: Third 3: Fourth 4: Last Valid if the rule type is set to 4 (Every month (day of week)) or 6 (Every year (day of week)).
Schedule.Rule[n].DayOfWeek	number	Day of the week	0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday Valid if the rule type is set to 4 (Every month (day of week)) or 6 (Every year (day of week)).

Parameter	Data type	Description	Valid value
Schedule.Rule[n].DayOfWee kStr	string	Indicates the validity for each day of the week by using 0 or 1 (from Sunday to Saturday).	0: Invalid 1: Valid Valid if the rule type is set to 2 (Every week).
Schedule.Rule[n].Hour	number	Hour (Start)	0 to 23 Valid if the rule type is set to 2 as show below. 0: Operating day 1: Operating day, iteration 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week) 7: Specific date
Schedule.Rule[n].Minute	number	Minute (Start)	0 to 59 Valid if the rule type is set to 2 as show below. 0: Operating day 1: Operating day, iteration 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week) 7: Specific date
Schedule.Rule[n].EndHour	number	Hour (End)	0 to 23 Valid if the rule type is set to 2 as show below. 0: Operating day 1: Operating day, iteration 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week) 7: Specific date
Schedule.Rule[n].EndMinute	number	Minute (End)	0 to 59 Valid if the rule type is set to 2 as show below. 0: Operating day 1: Operating day, iteration 2: Every week 3: Every month (date)

Parameter	Data type	Description	Valid value
			4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week) 7: Specific date
Schedule.Rule[n].IntervalTime	number	Intervals for repeating (minutes)	1 to 720 Valid if the rule type is set to 1 (Operating day, iteration).
Schedule.Rule[n].StartDate	string	Application start day	yyyymmdd Valid if the rule type is set to 2 as show below. 1: Operating day, iteration 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week)
Schedule.Rule[n].EndDate	string	Application end day	yyyymmdd Valid if the rule type is set to 2 as show below. 0: Operating day 1: Operating day, iteration 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week) If Schedule.Rule[n].Endless is set to true (End day is undecided), an empty string ("") is set.
Schedule.Rule[n].Endless	boolean	Indicates whether the last day is specified or not.	true: The last day is undecided. false: The last day is decided. Valid if the rule type is set to 2 as show below. 0: Operating day 1: Operating day, iteration 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week)
Schedule.Rule[n].StartTimeTime	string	Start day of the application period	yyyymmddhhmm Valid if the rule type is set to 8 (Continuous days). 197101010000-203612312359
Schedule.Rule[n].EndTimeTime	string	Last day of the	yyyymmddhhmm

Parameter	Data type	Description	Valid value
		application period	Valid if the rule type is set to 8 (Continuous days). 197101010000 to 203612312359
Schedule[n].Manager	object	Manager object	-
Schedule[n].Manager.Name	string	Manager name	Name of the manager in which the schedule exists, MoM name, or RM name
Schedule[n].Manager.ErrorMessage	string	Error message	-
Schedule[n].Manager.Status	number	Communication error code	-
Schedule[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0

- Newly added

8. JSON example

[Request]

```
GET /umf/fw/schedule/schedules/56e90e4a?ManagerName=mco-RM HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyAtw=:03rhfOK5YzLd+v8zf7y4YMQffbvbVAPj5XWgSOTLme4Q=
X-FW-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 319
Date: Thu, 17 Mar 2016 07:41:40 GMT

{
    "Schedule" : [
        {
            "Mode" : "1",
            "FunctionID" : "ffffffff",
            "Rule" : [
                {
                    "Order" : 1,
                    "Type" : "TimeBased"
                }
            ]
        }
    ]
}
```

```

        "EndDate" : "20171231",
        "Hour" : 0,
        "Minute" : 0,
        "EndHour" : 23,
        "StartDate" : "20160101",
        "Type" : 0,
        "EndMinute" : 59,
        "Endless" : false
    }
],
"Name" : "Schedule01",
"CalendarID" : "56e7ba3e",
"Manager" : {
    "Name" : "mco-RM",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : "200 OK"
}
}
]
}

```

4.11.3 Adding a schedule

1. Process overview

Add the schedule settings.

More than one schedule rule must be defined when adding the schedule.

2. HTTP method

POST

3. URL

/umf/fw/schedule/schedules

4. Parameters

Parameter	Data type	Description	Omission	Valid value
(Root)	object	Root object type	Not possible	-
Schedule	object	Schedule object	Not possible	-
Schedule.Name	string	Schedule name	Not possible	1 to 64 characters
Schedule.FunctionID	string	Schedule function ID	Not possible	Eight-digit hexadecimal number For the function names corresponding to the schedule function ID, see " List of function ID and function name (page 353) ".
Schedule.CalendarID	string	Calendar ID	Not possible	Eight-digit hexadecimal number
Schedule.Mode	string	Operation mode of schedule	Not possible	0: Time schedule (Failover can be specified) 1: Period schedule

Parameter	Data type	Description	Omission	Valid value
				2: Time schedule (Failover cannot be specified)
Schedule.NotifyFailOver	boolean	Schedule report setting in the case of a failover	Cannot be used if Mode is set to 0.	true: Report 0: Do not report This is valid if Mode is set to 0 (time schedule).
Schedule.PastTime	string	Time to track back to the previous schedule that was not reported	Yes	A value can be specified within the range of 1 minute to 6 days and 23 hours and 59 minutes Report the schedule in dhhmm format. 10 minutes is set in the event of omitting. Valid if NotifyFailOver is set to true (Reported). Not referenced if NotifyFailOver is set to false (Not reported).
Schedule.PastTimeCount	number	Specify whether to report all the previous schedules in the cycle that were not reported or to report the most recent schedule once.	Yes	0: All schedules are reported. 1: The most recent schedule is reported once. 1 is set in the event of omitting. Valid if NotifyFailOver is set to true (Reported). Not referenced if NotifyFailOver is set to false (Not reported).
Schedule.Rule	object[]	Schedule rule array	Not possible	
Schedule.Rule[n].Type	number	Schedule rule type	Not possible	0: Operating day/Every day 1: Repetition of operating day/Intervals of XX days 2: Every week 3: Every month (date) 4: Every month (day of week) 5: Every year (date) 6: Every year (day of week) 7: Specific day 8: Continuous days
Schedule.Rule[n].Year	number	Year	Can be specified only if the conditions described as valid values are met.	1971 to 2036 Valid if the rule type is set to 7 (Specific day).
Schedule.Rule[n].Month	number	Month	Can be specified only if the conditions described as valid values are met.	1 to 12 Valid if the rule type is set to 5 (Every year (date)), 6 (Every year (day of week)), or 7 (Specific day).

Parameter	Data type	Description	Omission	Valid value
Schedule.Rule[n].Day	number	Day	Can be specified only if the conditions described as valid values are met.	1 to 31: Specific date 99: End of the month Valid if the rule type is set to 3 (Every month (date)), 5 (Every year (date)), or 7 (Specific day).
Schedule.Rule[n].Week	number	Indicates the number of the specific day of the week in the month in combination with Schedule.Rule[n].DayOfWeek.	Can be specified only if the conditions described as valid values are met.	0: First 1: Second 2: Third 3: Fourth 4: Last Valid if the rule type is set to 4 (Every month (day of week)) or 6 (Every year (day of week)).
Schedule.Rule[n].DayOfWeek	number	Specify the day of the week.	Can be specified only if the conditions described as valid values are met.	0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday Valid if the rule type is set to 4 (Every month (day of week)) or 6 (Every year (day of week)).
Schedule.Rule[n].DayOfWeekStr	string	Indicates the validity for each day of week by using 0 or 1 (from Sunday to Saturday).	Can be specified only if the conditions described as valid values are met.	0: Invalid 1: Valid Valid if the rule type is set to 2 (Every week). Example: 0111110
Schedule.Rule[n].Hour	number	Hour (Start)	Can be specified only if the conditions described as valid values are met.	0 to 23 Valid if the rule type is set to 2 as show below. 0: Operating day 1: Operating day, iteration 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week) 7: Specific date
Schedule.Rule[n].Minute	number	Minute (Start)	Can be specified only if the conditions described as valid values are met.	0 to 59 [The operation mode is set to 0 or 2.] Valid if the rule type is set to 1 (Operating day, iteration). [The operation mode is set to 1.]

Parameter	Data type	Description	Omission	Valid value
				Valid if the rule type is set to 2 as show below. 0: Operating day 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week) 7: Specific date
Schedule.Rule[n].EndHour	number	Hour (End)	Can be specified only if the conditions described as valid values are met.	0 to 23 [The operation mode is set to 0 or 2.] Valid if the rule type is set to 1 (Operating day, iteration). [The operation mode is set to 1.] Valid if the rule type is set to 2 as show below. 0: Operating day 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week) 7: Specific date
Schedule.Rule[n].EndMinute	number	Minute (End)	Can be specified only if the conditions described as valid values are met.	0 to 59 Valid if the rule type is set to 2 as show below. 0: Operating day 1: Operating day, iteration 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week) 7: Specific date
Schedule.Rule[n].IntervalTime	number	Intervals for repeating (minutes)	Can be specified only if the conditions described as valid values are met.	Valid if the rule type is set to 1 (Operating day, iteration). 1 to 720
Schedule.Rule[n].StartDate	string	Start day of the application period	Can be specified only if the conditions described as valid values are met.	yyyymmdd Valid if the rule type is set to 2 as show below. 0: Operating day 1: Operating day, iteration 2: Every week

Parameter	Data type	Description	Omission	Valid value
				3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week)
Schedule.Rule[n].EndDate	string	Last day of the application period	Can be specified only if the conditions described as valid values are met.	yyyymmdd Valid if the rule type is set to 2 as show below. 0: Operating day 1: Operating day, iteration 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week) * Not referenced if Schedule.Rule[n].Endless is set to true (the last day is undecided).
Schedule.Rule[n].Endless	boolean	Indicates whether the last day is specified or not.	Can be specified only if the conditions described as valid values are met.	true: The last day is undecided. false: The last day is decided. Valid if the rule type is set to 2 as show below. 0: Operating day 1: Operating day, iteration 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week)
Schedule.Rule[n].StartTime	string	Start day of the application period	Can be specified only if the conditions described as valid values are met.	yyyymmddhhmm 197101010000 to 203612312359 Valid if the rule type is set to 8 (Continuous days).
Schedule.Rule[n].EndTime	string	Last day of the application period	Can be specified only if the conditions described as valid values are met.	yyyymmddhhmm 197101010000 to 203612312359 Valid if the rule type is set to 8 (Continuous days).
Manager	object	Manager object	Not possible	-
Manager.Name	string	Manager name	Not possible	Name of the manager to which the schedule is added, MoM name, or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The schedule has been added successfully.
400	Bad Request	Parameter error A schedule with the same name already exists. * The schedule must be named uniquely for each operation mode in the schedule function ID.
404	Not Found	The manager does not exist. The calendar ID does not exist.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Schedule	object	Schedule object	-
Schedule.ID	string	Schedule definition ID	Eight-digit hexadecimal character string that uniquely identifies the schedule in the manager
Schedule[n].Manager	object	Manager object	-
Schedule[n].Manager.Name	string	Manager name	Name of the manager to which the schedule is added, MoM name, or RM name
Schedule[n].Manager.ErrorMessage	string	Error message	-
Schedule[n].Manager.Status	number	Communication error code	-
Schedule[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0

- Newly added

8. JSON example

[Request]

```
POST /umf/fw/schedule/schedules HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyAtw=:03rhfOK5YzLd+v8zf7y4YMQffbvbVAPj5XWgS0tLme4Q=
X-FW-API-VERSION: 1.0
Content-Type: application/json; charset=UTF-8
Content-Length: 425
```

```
{
  "Schedule": {
    "Name": "Schedule01_MoM",
    "FunctionID": "ffffffff",
    "CalendarID": "56e91000",
    "Mode": "1",
    "NotifyFailOver": true,
    "PastTime": "62359",
    "PastTimeCount": 0,
    "Rule": [
      {
        "Type": 0,
        "StartDate": "20160601",
        "Hour": 0,
        "Minute": 0,
        "EndDate": "20161231",
        "EndHour": 23,
        "EndMinute": 59,
        "Endless": false
      }
    ],
    "Manager": {
      "Name": "mco-MoM"
    }
  }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 115
Date: Wed, 16 Mar 2016 07:55:07 GMT

{
  "Schedule" : [
    {
      "ID" : "56e9115b",
      "Manager" : {
        "Name" : "mco-MoM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
      }
    }
  ]
}
```

4.11.4 Updating a schedule

1. Process overview

Update the specified schedule definition ID settings.

All definitions including the existing definitions to be unchanged must be specified.

If a calendar ID that does not exist in the schedule setting items is set, an error occurs.

2. HTTP method

PUT

3. URL

/umf/fw/schedule/schedules/*ID*

Specify the schedule definition ID in *ID*.

Specify the definition by using the eight-digit hexadecimal character string in *ID*.

ID cannot be omitted.

4. Parameters

Parameter	Data type	Description	Omission	Valid value
(Root)	object	Root object type	Not possible	-
Schedule	object	Schedule object	Not possible	-
Schedule.Name	string	Schedule name	Not possible	1 to 64 characters
Schedule.CalendardarID	string	Calendar ID	No	Eight-digit hexadecimal number
Schedule.NotifyFailOver	boolean	Schedule report setting in the case of a failover	This is invalid if the operation mode is set to 0 (Time schedule).	true: Reported false: Not reported
Schedule.PastTime	string	Time to track back to the previous schedule that was not reported	Yes	A value can be specified within the range of 1 minute to 6 days and 23 hours and 59 minutes Report the schedule in hhmm format. 10 minutes is set in the event of omitting. Valid if NotifyFailOver is set to true (Reported). No reference if NotifyFailOver is set to false (Not reported).
Schedule.PastTimeCount	number	Specify whether to report all the previous schedules in the cycle that were not reported or to report the most recent schedule once.	Yes	0: All schedules are reported 1: The most recent schedule is reported once 1 is set in the event of omitting. Valid if NotifyFailOver is set to true (Reported).

Parameter	Data type	Description	Omission	Valid value
				No reference if NotifyFailOver is set to false (Not reported).
Schedule.Rule	object[]	Schedule rule array	No	-
Schedule.Rule[n].Type	number	Schedule rule type	No	0: Operating day/Every day 1: Repetition of operating day/ Intervals of XX days 2: Every week 3: Every month (date) 4: Every month (day of week) 5: Every year (date) 6: Every year (day of week) 7: Specific day 8: Consecutive days
Schedule.Rule[n].Year	number	Year	Can be specified only if the conditions described as valid values are met.	1971 to 2036 Valid if the rule type is set to 7 (Specific day).
Schedule.Rule[n].Month	number	Month	Can be specified only if the conditions described as valid values are met.	1 to 12 Valid if the rule type is set to 5 (Every year (date)), 6 (Every year (day of week)), or 7 (Specific day).
Schedule.Rule[n].Day	number	Day	Can be specified only if the conditions described as valid values are met.	1 to 31: Specified day 99: End of month Valid if the rule type is set to 3 (Every month (date)), 5 (Every year (date)), or 7 (Specific day).
Schedule.Rule[n].Week	number	Indicates the number of the specific day of the week in the month in combination with Schedule.Rule[n].DayOfWeek.	Can be specified only if the conditions described as valid values are met.	0: First 1: Second 2: Third 3: Fourth 4: Last Valid if the rule type is set to 4 (Every month (day of week)) or 6 (Every year (day of week)).
Schedule.Rule[n].DayOfWeek	number	Specify the day of the week.	Can be specified only if the conditions described as valid values are met.	0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday

Parameter	Data type	Description	Omission	Valid value
				Valid if the rule type is set to 4 (Every month (day of week)) or 6 (Every year (day of week)).
Schedule.Rule[n].DayOfWeekSt r	string	Indicates the validity for each day of the week by using 0 or 1 (from Sunday to Saturday).	Can be specified only if the conditions described as valid values are met.	0: Invalid 1: Valid Valid if the rule type is set to 2 (Every week). Example: 0111110
Schedule.Rule[n].Hour	numbe r	Time (Start)	Can be specified only if the conditions described as valid values are met.	0 to 23 Valid if the rule type is set as shown below. 0 (Operating day) 1 (Repetition of operating day) 2 (Every week) 3 (Every month (date)) 4 (Every month (day of week)) 5 (Every year (date)) 6 (Every year (day of week)) 7 (Specific day)
Schedule.Rule[n].Minute	numbe r	Minute (Start)	Can be specified only if the conditions described as valid values are met.	0 to 59 [The operation mode is set to 0 or 2.] Valid if the rule type is set to 1 (Repetition of operating day). [The operation mode is set to 1.] Valid if the rule type is set as shown below. 0 (Operating day) 2 (Every week) 3 (Every month (date)) 4 (Every month (day of week)) 5 (Every year (date)) 6 (Every year (day of week)) 7 (Specific day)
Schedule.Rule[n].EndHour	numbe r	Time (End)	Can be specified only if the conditions described as valid values are met.	0 to 23 [The operation mode is set to 0 or 2.] Valid if the rule type is set to 1 (Operating day repetition). [The operation mode is set to 1.] Valid if the rule type is set as shown below. 0 (Operating day) 2 (Every week) 3 (Every month (date)) 4 (Every month (day of week))

Parameter	Data type	Description	Omission	Valid value
				5 (Every year (date)) 6 (Every year (day of week)) 7 (Specific day)
Schedule.Rule[n].EndMinute	number	Minute (End)	Can be specified only if the conditions described as valid values are met.	0 to 59 Valid if the rule type is set as shown below. 0 (Operating day) 1 (Operating day repetition) 2 (Every week) 3 (Every month (date)) 4 (Every month (day of week)) 5 (Every year (date)) 6 (Every year (day of week)) 7 (Specific day)
Schedule.Rule[n].IntervalTime	number	Intervals for repeating (minutes)	Can be specified only if the conditions described as valid values are met.	Valid if the rule type is set to 1 (Repetition of operating day). 1 to 720
Schedule.Rule[n].StartDate	string	Start day of the application period	Can be specified only if the conditions described as valid values are met.	yyyymmdd Valid if the rule type is set as shown below. 0 (Operating day) 1 (Repetition of operating day) 2 (Every week) 3 (Every month (date)) 4 (Every month (day of week)) 5 (Every year (date)) 6 (Every year (day of week))
Schedule.Rule[n].EndDate	string	End day of the application period	Can be specified only if the conditions described as valid values are met.	yyyymmdd Valid if the rule type is set as shown below. 0 (Operating day) 1 (Repetition of operating day) 2 (Every week) 3 (Every month (date)) 4 (Every month (day of week)) 5 (Every year (date)) 6 (Every year (day of week)) * Not referenced if Schedule.Rule[n].Endless is set to true (end day is undecided).
Schedule.Rule[n].Endless	boolean	Indicates whether the end day is specified or not.	Can be specified only if the conditions described as	true: End day is undecided. false: End day is decided.

Parameter	Data type	Description	Omission	Valid value
			valid values are met.	Valid if the rule type is set as shown below. 0 (Operating day) 1 (Repetition of operating day) 2 (Every week) 3 (Every month (date)) 4 (Every month (day of week)) 5 (Every year (date)) 6 (Every year (day of week))
Schedule.Rule[n].StartTime	string	Start day of the application period	Can be specified only if the conditions described as valid values are met.	yyyymmddhhmm 197101010000 to 203612312359 Valid if the rule type is set to 8 (Consecutive days).
Schedule.Rule[n].EndTime	string	End day of the application period	Can be specified only if the conditions described as valid values are met.	yyyymmddhhmm 197101010000 to 203612312359 Valid if the rule type is set to 8 (Consecutive days).
Manager	object	Manager object	No	-
Manager.Name	string	Manager name	No	Manager name, MoM name, or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The schedule has been updated successfully.
400	Bad Request	Parameter error A schedule with the same name exists.
404	Not Found	The manager does not exist. The schedule definition ID does not exist. The calendar ID does not exist.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Schedule	object	Schedule object	-
Schedule.ID	string	Schedule definition ID	Eight-digit hexadecimal character string that uniquely identifies the schedule in the manager

Parameter	Data type	Description	Valid value
Schedule[n].Manager	object	Manager object	-
Schedule[n].Manager.Name	string	Manager name	Name of the manager for which the schedule is renewed, MoM name, or RM name
Schedule[n].Manager.ErrorMessage	string	Error message	-
Schedule[n].Manager.Status	number	Communication error code	-
Schedule[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added

8. JSON Example

[Request]

```
PUT /umf/fw/schedule/schedules/56e9115b HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyAtw=:03rhfOK5YzLd+v8zf7y4YMQffbvVAPj5XWgS0tLme4Q=
X-FW-API-VERSION: 1.0
Content-Type: application/json; charset=UTF-8
Content-Length: 317

{
  "Schedule": {
    "Name": "Schedule01",
    "CalendarID": "56e91000",
    "Rule": [
      {
        "Type": 0,
        "StartDate": "20160101",
        "Hour": 0,
        "Minute": 0,
        "EndDate": "20171231",
        "EndHour": 23,
        "EndMinute": 59,
        "Endless": false
      }
    ],
    "Manager": {
      "Name": "mco-MoM"
    }
  }
}
```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 115
Date: Thu, 17 Mar 2016 06:26:53 GMT

{
    "Schedule" : [
        {
            "ID" : "56e9115b",
            "Manager" : {
                "Name" : "mco-MoM",
                "Status" : 200,
                "StatusCode" : 200,
                "ErrorMessage" : "200 OK"
            }
        }
    ]
}

```

4.11.5 Deleting a schedule

1. Process overview

Delete the specified schedule definition ID settings.

2. HTTP method

DELETE

3. URL

`/umf/fw/schedule/schedules/ID?ManagerName=ManagerName`

Specify the schedule definition ID in *ID*.

Specify the definition by using the eight-digit hexadecimal character string in *ID*.

ID cannot be omitted.

Specify the name of the manager for which the definition is deleted in **ManagerName**.

ManagerName cannot be omitted.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The schedule has been deleted successfully.
400	Bad Request	Parameter error

HTTP status code	Meaning	Description
		A schedule being used
404	Not Found	The schedule definition ID does not exist.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Schedule	object	Schedule object	-
Schedule.ID	string	Schedule definition ID	Eight-digit hexadecimal character string that uniquely identifies the schedule in the manager
Schedule[n].Manager	object	Manager object	-
Schedule[n].Manager.Name	string	Manager name	Name of the manager for which the schedule is deleted, MoM name, or RM name
Schedule[n].Manager.ErrorMessage	string	Error message	-
Schedule[n].Manager.Status	number	Communication error code	-
Schedule[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added

8. JSON Example

[Request]

```
DELETE /umf/fw/schedule/schedules/56e90e4a?ManagerName=mco-RM HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyAtw=:03rhfOK5YzLd+v8zf7y4YMQffbvbVAPj5XWgS0tLme4Q=
X-FW-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
```

```

Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 114
Date: Thu, 17 Mar 2016 08:00:55 GMT

{
    "Schedule" : [
        {
            "ID" : "56e90e4a",
            "Manager" : {
                "Name" : "mco-RM",
                "Status" : 200,
                "StatusCode" : 200,
                "ErrorMessage" : "200 OK"
            }
        }
    ]
}

```

4.11.6 List of function IDs and function names

- List of function IDs and function names

The schedule function IDs, the corresponding function names, and the values of the operation modes to be specified when adding a schedule are as follows.

Function ID	Function name	Schedule operation mode
FFFFFFF	Topology view	1
FFFFFFF	Business view	1

4.11.7 Setting item list for each schedule rule type

- The setting items for each schedule rule type are listed below.

For "Obtaining schedule details", items marked with × are not returned.

For "Adding/Renewing a schedule", if items marked with × are set, they are ignored.

1. The operation mode of the schedule is set to the time schedule (0 or 2).

Item Type	Year	Month	Day	Week	DayOf WeekStr	Hour	EndHour	IntervalTime	StartDate	EndDate	Endless
Operating day	N/A	×	×	×	×	○	×	×	○		
Repetition of operating day	N/A	×	×	×	×	○	○	○	○		

Item Type	Year	Month	Day	Week	DayOf Week	DayOf Weeks tr	Hour Minute	EndHo ur EndMi nute	Interva lTime	StartD ate	EndDa te	Endles s
Every week	N/A	×	×	×	×	○	○	×	×	×	○	
Every month (date).	N/A	×	○	×	×	×	○	×	×	×	○	
Every month (day of the week)	N/A	×	×	○	○	×	○	×	×	×	○	
Every year (date)	N/A	○	○	×	×	×	○	×	×	×	○	
Every year (day of the week)	N/A	○	×	○	○	×	○	×	×	×	○	
Specific day	○	○	○	×	×	×	○	×	×	×	×	

2. The operation mode of the schedule is set to the period schedule (1).

Item Type	Year	Month	Day	Week	DayOf Week	DayOf Weeks tr	Hour Minute	EndHo ur EndMi nute	Interva lTime	StartD ate	EndDa te	Endles s
Operating day	N/A	×	×	×	×	×	○	○	×	×	○	
Every week	N/A	×	×	×	×	○	○	○	×	×	○	
Every month (date).	N/A	×	○	×	×	×	○	○	×	×	○	
Every month (day of the week)	N/A	×	×	○	○	×	○	○	×	×	○	
Every year (date)	N/A	○	○	×	×	×	○	○	×	×	○	
Every year (day of	N/A	○	×	○	○	×	○	○	×	×	○	

Item Type	Year	Month	Day	Week	DayOf Week	DayOf Weeks tr	Hour	EndHo ur	Interva lTime	StartD ate	EndDa te	Endless
the week)												
Specific day	○	○	○	×	×	×	○	○	×	×		
Continuous days	All the above parameters must be marked with ×. Set StartDateTime and EndDateTime.											

4.12 Calendar

4.12.1 Obtaining the calendar list

1. Process overview

Obtain the calendar list.

2. HTTP method

GET

3. URL

/umf/fw/calendar/calendars?ManagerName=*ManagerName*

For an environment where more than one manager exists, specify the target manager name as *ManagerName*.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The calendar list has been obtained successfully.
404	Not Found	The manager does not exist.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Calendar	object[]	Calendar object	-

Parameter	Data type	Description	Valid value
Calendar[n].ID	string	Calendar ID	Eight-digit hexadecimal character string that uniquely identifies the calendar in the manager
Calendar[n].Name	string	Calendar name	1 to 64 characters
Calendar[n].Calendar	object[]	Calendar object of subtree	This is output if there are calendars of subtree. The contents of the object are the same as the Calendar object as described above.
Calendar[n].Manager	object	Manager object	-
Calendar[n].Manager.Name	string	Manager name	Name of the manager in which the calendar exists, MoM name, or RM name
Calendar[n].Manager.ErrorMessage	string	Error message	-
Calendar[n].Manager.Status	number	Communication error code	-
Calendar[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added

8. JSON Example

[Request]

```
GET /umf/fw/calendar/calendars HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyAtw=:03rhfOK5YzLd+v8zf7y4YMQffbvbVAPj5XWgSOTLme4Q=
X-FW-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 803
Date: Wed, 16 Mar 2016 07:45:56 GMT
```

```
{
  "Calendar" : [
    {
      "Name" : "All operation dates",
      "ID" : "56e79c2a",
      "Manager" : {
        "Name" : "mco-MoM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
      }
    },
    {
      "Name" : "Weekday operation dates",
      "ID" : "56e79c29",
      "Manager" : {
        "Name" : "mco-MoM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
      }
    },
    {
      "Name" : "Calendar103",
      "ID" : "56e8a661",
      "Manager" : {
        "Name" : "mco-MoM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
      }
    },
    {
      "Name" : "All operation dates",
      "ID" : "56e7ba3e",
      "Manager" : {
        "Name" : "mco-RM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
      }
    },
    {
      "Name" : "Weekday operation dates",
      "ID" : "56e7ba3d",
      "Calendar" : [
        {
          "Name" : "Calendar02",
          "ID" : "56e90bb1"
        }
      ],
      "Manager" : {
        "Name" : "mco-RM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
      }
    },
    {
      "Name" : "Calendar01",
      "ID" : "56e902f6",
      "Manager" : {
        "Name" : "mco-RM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
      }
    }
  ]
}
```

```

        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
    }
}
]
}

```

4.12.2 Obtaining the calendar details

1. Description

Obtain detailed information on the specified calendar.

2. HTTP method

GET

3. URL

```
/umf/fw/calendar/calendars/ID?StartDate=StartDate&EndDate=EndDate&ManagerName=ManagerName
```

Specify the ID obtained from the calendar list in **ID**.

ID cannot be omitted.

Specify the application start month and end month to be obtained in yyyyymm format in **StartDate** and **EndDate**. (Example: 201601)

Specify a value within the range of 197101 to 203612 in **StartDate** and **EndDate**.

Note that the application data for up to 10 years from the application start month can be returned as the response.

StartDate and **EndDate**, cannot be omitted.

Specify the name of the manager for which the detailed calendar is obtained in **ManagerName**.

ManagerName cannot be omitted.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The calendar details have been obtained successfully.
400	Bad Request	The calendar ID is not specified. The parameter is specified incorrectly.
404	Not Found	The specified calendar ID does not exist. The manager does not exist.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Calendar	object	Calendar object	-
Calendar.Name	string	Calendar name	1 to 64 characters
Calendar.ParentID	string	Parent calendar ID	Eight-digit hexadecimal character string that uniquely identifies the calendar in the manager
Calendar.Apply	object[]	Application range object	For details, see " Calendar application range (page 377) ".
Calendar.Apply[n].YearMonth	string	Object within the application range	Specify this in yyyyymm format. Example: 201501
Calendar.Apply[n].Data	string	Application data for each month Output the contents of the rule application for each month.	The character string length corresponds to the number of days in the month indicated in Calendar.Apply[n].YearMonth. (Up to 31 characters) The meaning of each character is shown below. 0: Not applied 1: Operating day 2: Non-operating day 3: Unspecified day
Calendar.Description	string	Calendar description	This is the description set when creating the calendar. If this was not set, a space is left.
Calendar.Rule	object[]	Rule object	-
Calendar.Rule[n].Kind	number	Type of rule application day	1: Operating day 2: Non-operating day 3: Unspecified day
Calendar.Rule[n].Type	number	Rule type	0: Every day 1: Every week 2: Every month (date) 3: Every month (day of week) 4: Every year (date) 5: Every year (day of week) 6: Specific day The subsequent parameters are returned according to the type.
Calendar.Rule[n].Year	number	Year	1971 to 2036 This is returned if Calendar.Rule[n].Type is set to 6 (Specific day).
Calendar.Rule[n].Month	number	Month	1 to 12

Parameter	Data type	Description	Valid value
			This is returned if Calendar.Rule[n].Type is set to 4 (Every year (date)), 5 (Every year (day of week)), or 6 (Specific day).
Calendar.Rule[n].Day	number	Day	1 to 31 or 99 1 to 31: Specific date 99: End of month This is returned if Calendar.Rule[n].Type is set to 2 (Every month (date)), 5 (Every year (day of week)), or 6 (Specific day).
Calendar.Rule[n].Week	number	Indicates the number of the specific day of the week in the month in combination with Calendar.Rule[n].DayOfWeek.	0: First 1: Second 2: Third 3: Fourth 4: Last This is returned if Calendar.Rule[n].Type is set to 3 (Every month (day of week)) or 5 (Every year (day of week)).
Calendar.Rule[n].DayOfWeek	number	Day of the week	0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday This is returned if Calendar.Rule[n].Type is set to 3 (Every month (day of week)) or 5 (Every year (day of week)).
Calendar.Rule[n].DayOfWeekStr	string	Indicates the validity for each day of week.	Indicates by using 7 characters for days from Sunday to Saturday. 0: Invalid 1: Valid For example, if days from Monday to Friday are selected, this is indicated as 0111110. This is returned if Calendar.Rule[n].Type is set to 1 (Every week).
Calendar.Rule[n].StartDate	string	Application start day	yyyymmdd Specify a value within the range of 19710101 to 20361231. This is returned if Calendar.Rule[n].Type is set as shown below. 0: Every day 1: Every week 2: Every month (date) 3: Every month (day of the week) 4: Every year (date) 5: Every year (day of the week)

Parameter	Data type	Description	Valid value
Calendar.Rule[n].EndDate	string	Application end day	yyyymmdd Specify a value within the range of 19710101 to 20361231. If Calendar.Rule[n].Endless is set to true (End day is undecided), an empty string ("") is set. This is returned if Calendar.Rule[n].Type is set as shown below. 0: Every day 1: Every week 2: Every month (date) 3: Every month (day of the week) 4: Every year (date) 5: Every year (day of the week)
Calendar.Rule[n].Endless	boolean	Indicates whether the application end date is decided or not.	true: End day is undecided false: End day is decided This is returned if Calendar.Rule[n].Type is set as shown below. 0: Every day 1: Every week 2: Every month (date) 3: Every month (day of the week) 4: Every year (date) 5: Every year (day of the week)
Calendar[n].Manager	object	Manager object	-
Calendar[n].Manager.Name	string	Manager name	Name of the manager in which the calendar exists, MoM name, or RM name
Calendar[n].Manager.ErrorMessage	string	Error message	-
Calendar[n].Manager.Status	number	Communication error code	-
Calendar[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version : 1.0
 - Newly added

8. JSON example

[Request]

```
GET /umf/fw/calendar/calendars/56e90bb1?StartDate=201601&EndDate=201612&ManagerName=mco-RM HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyA
```

```
tw=:03rhfOK5YzLd+v8zf7y4YMQffbvVAPj5XWgS0tLme4Q=
X-FW-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1322
Date: Thu, 17 Mar 2016 04:43:52 GMT

{
    "Calendar" : [
        {
            "Apply" : [
                {
                    "YearMonth" : "201601",
                    "Data" : "122111122111112211111221111122"
                }, {
                    "YearMonth" : "201602",
                    "Data" : "1111122111112211111221111122"
                }, {
                    "YearMonth" : "201603",
                    "Data" : "1111221111221111221111122111"
                }, {
                    "YearMonth" : "201604",
                    "Data" : "1221111221111122111112211112"
                }, {
                    "YearMonth" : "201605",
                    "Data" : "211112211111221111122111122111"
                }, {
                    "YearMonth" : "201606",
                    "Data" : "1112211112211111221111122111"
                }, {
                    "YearMonth" : "201607",
                    "Data" : "1221111221111122111112211112"
                }, {
                    "YearMonth" : "201608",
                    "Data" : "111112211111221111122111122111"
                }, {
                    "YearMonth" : "201609",
                    "Data" : "11221111221111122111122111122111"
                }, {
                    "YearMonth" : "201610",
                    "Data" : "221111221111122111122111122111"
                }, {
                    "YearMonth" : "201611",
                    "Data" : "111122111112211111221111122111"
                }, {
                    "YearMonth" : "201612",
```

```

        "Data" : "112211112211112211112211112"
    }
],
"Rule" : [
{
    "EndDate" : "20151231",
    "Kind" : 1,
    "StartDate" : "20150101",
    "Type" : 1,
    "DayOfWeekStr" : "0000001",
    "Endless" : false
}, {
    "EndDate" : "20151231",
    "Kind" : 2,
    "StartDate" : "20150101",
    "Type" : 1,
    "DayOfWeekStr" : "0001000",
    "Endless" : false
}, {
    "Kind" : 2,
    "Day" : 1,
    "Type" : 6,
    "Year" : 2015,
    "Month" : 1
}, {
    "EndDate" : "20151231",
    "Week" : 2,
    "Kind" : 2,
    "DayOfWeek" : 0,
    "StartDate" : "20150101",
    "Type" : 3,
    "Endless" : false
}
],
"Name" : "Calendar02",
"ParentID" : "56e7ba3d",
"Description" : "Attendance calendar",
"Manager" : {
    "Name" : "mco-RM",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : "200 OK"
}
}
]
}
}

```

4.12.3 Adding the calendar

1. Process overview

Add a new calendar setting.

2. HTTP method

POST

3. URL

/umf/fw/calendar/calendars

4. Parameters

Parameter	Data type	Description	Omission	Valid value
(Root)	object	Root object type	Not possible	-
Calendar	object	Calendar object	Not possible	-
Calendar.Name	string	Calendar name	Not possible	1 to 64 characters Delete spaces before and after the characters. The calendar must be named uniquely. If the same calendar name already exists, an error occurs.
Calendar.ParentID	string	Parent calendar ID	Not possible	Eight-digit hexadecimal character string that uniquely identifies the calendar in the manager Specify "00000000" to add an ID to the route.
Calendar.Description	string	Calendar description	Not possible	Specify this item by using up to 128 characters. Delete spaces before and after the characters. If this is not specified, leave an empty string ("").
Calendar.Rule	object[]	Rule object	Yes	Note: Priorities are set for the rules. Specify the elements of the array in descending order of priority.
Calendar.Rule[n].Kind	number	Rule class	Not possible	1: Operating day 2: Non-operating day 3: Unspecified day
Calendar.Rule[n].Type	number	Rule type	No	0: Every day 1: Every week 2: Every month (date) 3: Every month (day of week) 4: Every year (date) 5: Every year (day of week) 6: Specific day The subsequent parameters cannot be omitted depending on the type.
Calendar.Rule[n].Year	number	Year	Cannot be omitted if Calendar.Rule[n].Type is set to 6 (Specific day).	1971 to 2036
Calendar.Rule[n].Month	number	Month	Cannot be omitted if Calendar.Rule[n].Type is set to 4	1 to 12

Parameter	Data type	Description	Omission	Valid value
			(Every year (date)), 5 (Every year (day of week)), or 6 (Specific day).	
Calendar.Rule[n].Day	number	Day	Cannot be omitted if Calendar.Rule[n].Type is set to 2 (Every month (date)), 5 (Every year (day of week)), or 6 (Specific day).	Specify 1 to 31 or 99. 1 to 31: Specified day 99: End of month
Calendar.Rule[n].Week	number	Indicates the number of the specific day of the week in the month in combination with Calendar.Rule[n].DayOfWeek.	Cannot be omitted if Calendar.Rule[n].Type is set to 3 (Every month (day of week)) or 5 (Every year (day of week)).	0: First 1: Second 2: Third 3: Fourth 4: Last
Calendar.Rule[n].DayOfWeek	number	Day of week	Cannot be omitted if Calendar.Rule[n].Type is set to 3 (Every month (day of week)) or 5 (Every year (day of week)).	0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday
Calendar.Rule[n].DayOfWeekStar	string	Indicates the validity for each day of week.	Cannot be omitted if Calendar.Rule[n].Type is set to 1 (Every week).	Indicated by seven characters for days from Sunday to Saturday. 0: Invalid 1: Valid For example, if days from Monday to Friday are selected, this is indicated as 0111110.
Calendar.Rule[n].StartDate	string	Application start month	Cannot be omitted if Calendar.Rule[n].Type is set as shown below. 0 (Every day) 1 (Every week) 2 (Every month (date)) 3 (Every month (day of week)) 4 (Every year (date)) 5 (Every year (day of week))	Specify a value within the range of 19710101 to 20361231 in yyyyymmdd format. Example: 20150101

Parameter	Data type	Description	Omission	Valid value
Calendar.Rule[n].EndDate	string	Application end month	Cannot be omitted if Calendar.Rule[n].Type is set as shown below. 0 (Every day) 1 (Every week) 2 (Every month (date)) 3 (Every month (day of week)) 4 (Every year (date)) 5 (Every year (day of week))	Specify a value within the range of 19710101 to 20361231 in yyyyymmdd format. Example: 20150101 * If Calendar.Rule[n].Endless is set to true (End day is undecided), ignore this.
Calendar.Rule[n].Endless	boolean	Indicates whether the application end date is undecided or not.	Cannot be omitted if Calendar.Rule[n].Type is set as shown below. 0 (Every day) 1 (Every week) 2 (Every month (date)) 3 (Every month (day of week)) 4 (Every year (date)) 5 (Every year (day of week))	true: End day is undecided false: End day is decided
Manager	object	Manager object	Not possible	-
Manager.Name	string	Manager name	No	Manager name, MoM name, or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The calendar has been added successfully.
400	Bad Request	The parameter is specified incorrectly.
404	Not Found	The specified calendar ID does not exist. The manager does not exist.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Calendar	object	Calendar object	-
Calendar.ID	string	Calendar ID	Eight-digit hexadecimal character string that uniquely identifies the calendar in the manager
Calendar[n].Manager	object	Manager object	-
Calendar[n].Manager.Name	string	Manager name	Name of the manager for which the calendar is added, MoM name, or RM name
Calendar[n].Manager.ErrorMessage	string	Error message	-
Calendar[n].Manager.Status	number	Communication error code	-
Calendar[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0

- Newly added

8. JSON Example

[Request]

```

POST /umf/fw/calendar/calendars HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAffEu5MRW4VeIyAtw=:03rhfOK5YzLd+v8zf7y4YMQffbvbVAPj5XWgS0tLme4Q=
X-FW-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 771

{
    "Calendar" : {
        "Name" : "Calendar01_MoM",
        "ParentID" : "56e79c2a",
        "Description" : "Business calendar",
        "Rule" : [
            {
                "Kind" : 1,
                "Type" : 1,
                "DayOfWeekStr" : "0000001",
                "StartDate" : "20150101",
                "EndDate" : "20151231",
                "Endless" : false
            }, {
                "Kind" : 2,
                "Type" : 1,

```

```

        "DayOfWeekStr" : "0001000",
        "StartDate" : "20150101",
        "EndDate" : "20151231",
        "Endless" : false
    }, {
        "Kind" : 2,
        "Type" : 6,
        "Year" : 2015,
        "Month" : 1,
        "Day" : 1
    }, {
        "Kind" : 2,
        "Type" : 3,
        "Week" : 2,
        "DayOfWeek" : 0,
        "StartDate" : "20150101",
        "EndDate" : "20151231",
        "Endless" : false
    }
]
},
"Manager" : {
    "Name" : "mco-MoM"
}
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 115
Date: Wed, 16 Mar 2016 07:49:33 GMT

{
    "Calendar" : [
        {
            "ID" : "56e91000",
            "Manager" : {
                "Name" : "mco-MoM",
                "Status" : 200,
                "StatusCode" : 200,
                "ErrorMessage" : "200 OK"
            }
        }
    ]
}

```

4.12.4 Updating the calendar

1. Process overview

Update the specified calendar settings.

2. HTTP method

PUT

3. URL

/umf/fw/calendar/calendars/*ID*

Specify the ID obtained from the calendar list in *ID*.

ID cannot be omitted.

The "All operating days" and "Operating weekdays" calendars set by default cannot be updated.

If these calendar IDs are specified, an error (400 Bad Request) occurs.

4. Parameters

Parameter	Data type	Description	Omission	Valid value
(Root)	object	Root object type	No	-
Calendar	object	Calendar object	Not possible	-
Calendar.Name	string	Calendar name	No	1 to 64 characters Delete spaces before and after the characters. The calendar must be named uniquely. If the same calendar name already exists, an error occurs.
Calendar.Description	string	Calendar description	No	Specify this item by using up to 128 characters. Delete spaces before and after the characters. If this is not specified, leave an empty string ("").
Calendar.Rule	object[]	Rule object	Yes	Discard all existing rules, and replace them with new rules. All the existing rules are deleted when omitted. Note: Priorities are set for the rules. Specify the elements of the array in descending order of priority.
Calendar.Rule[n].Kind	number	Rule class	No	1: Operating day 2: Non-operating day 3: Unspecified day
Calendar.Rule[n].Type	number	Rule type	No	0: Every day 1: Every week 2: Every month (date) 3: Every month (day of week) 4: Every year (date)

Parameter	Data type	Description	Omission	Valid value
				5: Every year (day of week) 6: Specific day The subsequent parameters cannot be omitted depending on the type.
Calendar.Rule[n].Year	number	Year	Cannot be omitted if Calendar.Rule[n].Type is set to 6 (Specific day).	1971 to 2036
Calendar.Rule[n].Month	number	Month	Cannot be omitted if Calendar.Rule[n].Type is set to 4 (Every year (date)), 5 (Every year (day of week)), or 6 (Specific day).	1 to 12
Calendar.Rule[n].Day	number	Day	Cannot be omitted if Calendar.Rule[n].Type is set to 2 (Every month (date)), 5 (Every year (day of week)), or 6 (Specific day).	Specify 1 to 31 or 99. 1 to 31: Specified day 99: End of month
Calendar.Rule[n].Week	number	Indicates the number of the specific day of the week in the month in combination with Calendar.Rule[n].DayOfWeek.	Cannot be omitted if Calendar.Rule[n].Type is set to 3 (Every month (day of week)) or 5 (Every year (day of week)).	0: First 1: Second 2: Third 3: Fourth 4: Last
Calendar.Rule[n].DayOfWeek	number	Day of week	Cannot be omitted if Calendar.Rule[n].Type is set to 3 (Every month (day of week)) or 5 (Every year (day of week)).	0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday
Calendar.Rule[n].DayOfWeekStr	string	Indicates the validity for each day of week.	Cannot be omitted if Calendar.Rule[n].Type is set to 1 (Every week).	Indicated by using seven characters for days from Sunday to Saturday. 0: Invalid 1: Valid For example, if days from Monday to Friday are selected, this is indicated as 0111110.

Parameter	Data type	Description	Omission	Valid value
Calendar.Rule[n].StartDate	string	Application start month	Cannot be omitted if Calendar.Rule[n].Type is set as shown below. 0 (Every day) 1 (Every week) 2 (Every month (date)) 3 (Every month (day of week)) 4 (Every year (date)) 5 (Every year (day of week))	Specify a value within the range from 19710101 to 20361231 in yyyyymmdd format. Example: 20150101
Calendar.Rule[n].EndDate	string	Application end month	Cannot be omitted if Calendar.Rule[n].Type is set as shown below. 0 (Every day) 1 (Every week) 2 (Every month (date)) 3 (Every month (day of week)) 4 (Every year (date)) 5 (Every year (day of week))	Specify a value within the range of 19710101 to 20361231 in yyyyymmdd format. Example: 20150101 * If Calendar.Rule[n].Endless is set to true (End day is undecided), this is ignored.
Calendar.Rule[n].Endless	boolean	Indicates whether the application end date is undecided or not.	Cannot be omitted if Calendar.Rule[n].Type is set as shown below. 0 (Every day) 1 (Every week) 2 (Every month (date)) 3 (Every month (day of week)) 4 (Every year (date)) 5 (Every year (day of week))	true: End day is undecided. false: End day is decided.
Manager	object	Manager object	No	-
Manager.Name	string	Manager name	No	Manager name, MoM name, or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The calendar has been updated successfully.
400	Bad Request	The parameter is specified incorrectly.
404	Not Found	The specified calendar ID does not exist. The manager does not exist.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Calendar	object	Calendar object	-
Calendar.ID	string	Calendar ID	Eight-digit hexadecimal character string that uniquely identifies the calendar in the manager
Calendar[n].Manager	object	Manager object	-
Calendar[n].Manager.Name	string	Manager name	Name of the manager for which the calendar is updated, MoM name, or RM name
Calendar[n].Manager.ErrorMessage	string	Error message	-
Calendar[n].Manager.Status	number	Communication error code	-
Calendar[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added

8. JSON Example

[Request]

```
PUT /umf/fw/calendar/calendars/56e91000 HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyAtw=:03rhfOK5YzLd+v8zf7y4YMQffbvVAPj5XWgS0tLme4Q=
X-FW-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 1789

{
  "Calendar": {
    "Name": "Calendar001",
```

```
"Description":"Attendance calendar",
"Rule": [
    {
        "Week":1,
        "DayOfWeek":2,
        "DayOfWeekStr":"1100011",
        "StartDate":"20151221",
        "EndDate":"20151231",
        "Endless":false,
        "Kind":1,
        "Type":6,
        "Year":2015,
        "Month":12,
        "Day":23
    },
    {
        "Year":2016,
        "Day":30,
        "DayOfWeekStr":"1100011",
        "Kind":1,
        "Type":5,
        "Month":12,
        "Week":0,
        "DayOfWeek":3,
        "StartDate":"20151223",
        "EndDate":"20151231",
        "Endless":false
    },
    {
        "Year":2016,
        "Week":1,
        "DayOfWeek":2,
        "DayOfWeekStr":"1100011",
        "Kind":1,
        "Type":4,
        "Month":12,
        "Day":24,
        "StartDate":"20151223",
        "EndDate":"20151231",
        "Endless":false
    },
    {
        "Year":2016,
        "Month":11,
        "Day":30,
        "DayOfWeekStr":"1100011",
        "Kind":2,
        "Type":3,
        "Week":1,
        "DayOfWeek":3,
        "StartDate":"20151223",
        "EndDate":"20151231",
        "Endless":false
    },
    {
        "Year":2016,
        "Month":11,
        "Week":1,
```

```

        "DayOfWeek":2,
        "DayOfWeekStr":"1100011",
        "Kind":3,
        "Type":2,
        "Day":24,
        "StartDate":"20151223",
        "EndDate":"20151231",
        "Endless":false
    },
    {
        "Year":2016,
        "Month":11,
        "Day":30,
        "Week":1,
        "DayOfWeek":2,
        "Kind":2,
        "Type":1,
        "DayOfWeekStr":"0111110",
        "StartDate":"20150610",
        "EndDate":"",
        "Endless":true
    },
    {
        "Year":2016,
        "Month":11,
        "Day":30,
        "Week":1,
        "DayOfWeek":2,
        "DayOfWeekStr":"1100011",
        "Kind":1,
        "Type":0,
        "StartDate":"20150928",
        "EndDate":"20151231",
        "Endless":false
    }
]
},
"Manager":{
    "Name":"mco-MoM"
}
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 115
Date: Thu, 17 Mar 2016 06:25:44 GMT

{
    "Calendar" : [

```

```
{
    "ID" : "56e91000",
    "Manager" : {
        "Name" : "mco-MoM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
    }
}
]
```

4.12.5 Deleting the calendar

1. Process overview

Delete the specified calendar settings.

2. HTTP method

DELETE

3. URL

/umf/fw/calendar/calendars/*ID*?ManagerName=**ManagerName**

Specify the ID obtained from the calendar list in *ID*.

ID cannot be omitted.

If a calendar with a subtree is specified, the calendar of the specified ID and all calendars under a subtree are deleted.

The "All operating days" and "Operating weekdays" calendars set by default cannot be deleted.

If their calendar IDs are specified, an error (400 Bad Request) occurs.

Although the calendar used for the schedule can be deleted, the schedule does not work if the calendar being used for the schedule is deleted.

Obtain the schedule list in advance to check that calendars to be deleted and calendars in the subtree are not used, and then delete the calendars.

Specify the name of the manager for which the definition is deleted in **ManagerName**.

ManagerName cannot be omitted.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The calendar list has been obtained successfully.
400	Bad Request	The calendar ID is not specified. The calendar IDs of "All operating days" and "Operating weekdays" are specified.
404	Not Found	The specified calendar ID does not exist.

HTTP status code	Meaning	Description
		The manager does not exist.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Calendar	object	Calendar object	-
Calendar.ID	string[]	Deleted calendar ID Eight-digit hexadecimal character string that uniquely identifies the calendar in the manager If there are calendars of the subtree under the calendar to be deleted, return the calendar ID to be deleted and all calendar IDs under it.	
Calendar[n].Manager	object	Manager object	-
Calendar[n].Manager.Name	string	Manager name	Name of the manager for which the calendar is deleted, MoM name, or RM name
Calendar[n].Manager.ErrorMessage	string	Error message	-
Calendar[n].Manager.Status	number	Communication error code	-
Calendar[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added

8. JSON Example

[Request]

```
DELETE /umf/fw/calendar/calendars/56e90bb1?ManagerName=mco-RM HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyA
tw=:03rhfOK5YzLd+v8zf7y4YMQffbVAPj5XWgS0tLme4Q=
X-FW-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 116
Date: Thu, 17 Mar 2016 08:03:13 GMT

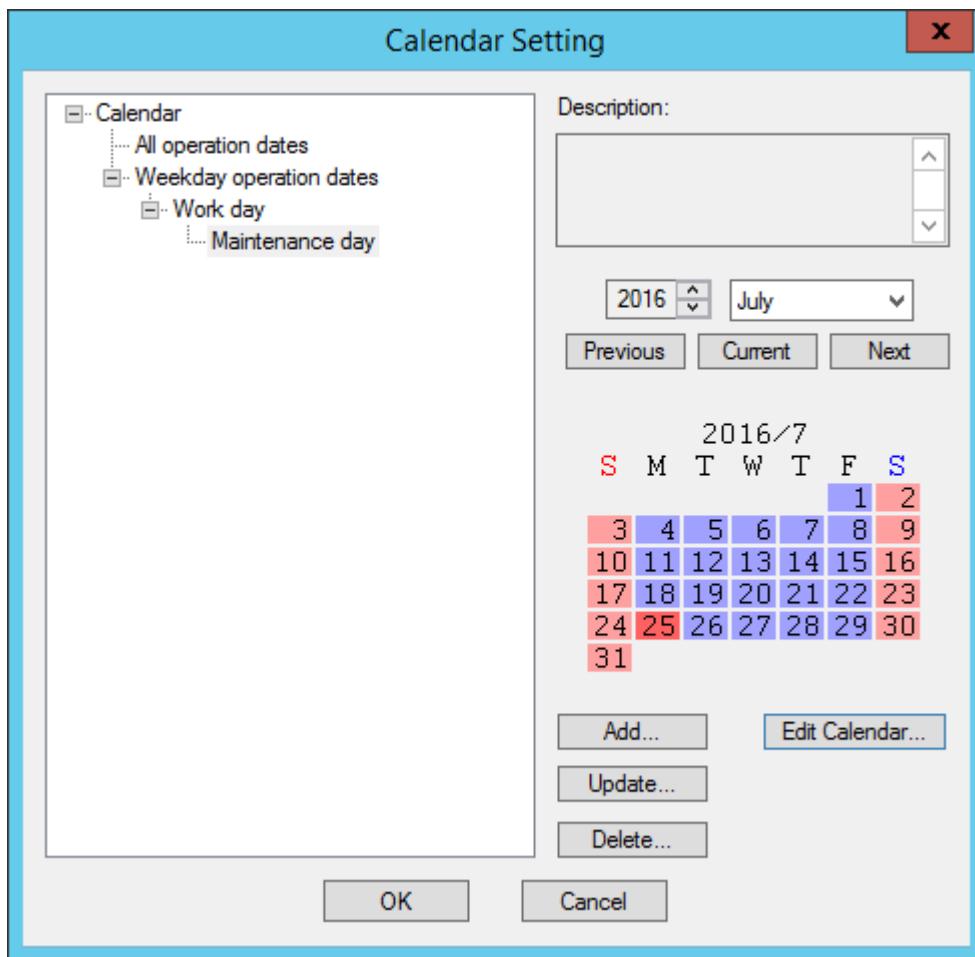
{
    "Calendar" : [
        {
            "ID" : [
                "56e90bb1"
            ],
            "Manager" : {
                "Name" : "mco-RM",
                "Status" : 200,
                "StatusCode" : 200,
                "ErrorMessage" : "200 OK"
            }
        }
    ]
}

```

4.12.6 Application range of calendar

- The calendar has a hierarchical tree structure as shown in the figure below, and the application range of calendar includes upper calendars.

In case of the figure below, the application range of "Maintenance day" includes the merged application range of the upper calendar "Work day" and "Operating weekdays".



When the application range is merged, the application range of the lower calendar is prioritized.

For example, if the operating day is set in the specific day in the upper calendar and the non-operating day is set in the base calendar, the non-operating day in the base calendar is applied.

4.12.7 Setting item list for each calendar rule type

- Setting items for each calendar rule type are listed below.

For "Obtaining the detailed calendar", items marked with x are not returned.

For "Adding/Renewing the calendar", if items marked with x are set, they are ignored.

Item Type	Year	Month	Day	Week	DayOfWe ek	DayOfWe ekStr	StartDate EndDate Endless
Every day	x	x	x	x	x	x	o
Every week	x	x	x	x	x	o	o
Every month (date)	x	x	o	x	x	x	o
Every month (day of week)	x	x	x	o	o	x	o
Every year (date)	x	o	o	x	x	x	o

Item Type	Year	Month	Day	Week	DayOfWeek	DayOfWeekStr	StartDate EndDate Endless
Every year (day of week)	×	○	×	○	○	×	○
Specific day	○	○	○	×	×	×	×

4.13 Service port monitoring

4.13.1 Obtaining the monitoring setting list

1. Process overview

Obtain the port monitoring setting list for the specified agent.

2. HTTP method

GET

3. URL

/umf/fw/sysmgr/portmonitor/monitor/**HostName**?ManagerName=**ManagerName**

Specify the agent name to be obtained in **HostName** within the range of 1 to 64 characters.

The agent name to be specified in **HostName** can be checked in the agent list.

HostName cannot be omitted.

For an environment where more than one manager exists, specify the target manager name as **ManagerName**.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring setting list has been obtained successfully.
400	Bad Request	Parameter error The agent name is not specified.
404	Not Found	The agent does not exist. The manager does not exist.
409	Conflict	More than one specified resource exists, and it cannot be identified uniquely. * Occurs if ManagerName is omitted.
500	Internal Server Error	Internal server error

6. Response

Parameters	Data type	Description	Valid value
(ROOT)	object	Root object type	-
HostName	string	Agent name	Character string that identifies the agent uniquely
Port	object[]	Array of the monitoring settings	If the monitoring setting count is 0, the number of elements of the array is set to 0.
Port[n].ID	string	Monitoring setting ID	Eight-digit hexadecimal character string that uniquely identifies the port monitoring settings in the agent
Port[n].DisplayName	string	Display name	1 to 64 characters
Port[n].PortNo	number	Port number	1 to 65535
Port[n].Protocol	string	Protocol	"TCP" "UDP"
Port[n].NormalStatus	string	Normal port status	"CLOSE" "OPEN"
HostType	number	Host type	0: Agent 1: Remote host
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name
Manager.ErrorMessage	string	Error message	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version: 1.0
 - Newly added

8. JSON Example

[Request]

```
GET /umf/fw/sysmgr/portmonitor/monitor/Windows HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAffEu5MRW4VeIyA
tw=:03rhfOK5YzLd+v8zf7y4YMQfffbvVAPj5XWgS0tLme4Q=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 231
Date: Thu, 17 Mar 2016 07:56:36 GMT

{
    "HostName" : "Windows",
    "HostType" : 0,
    "Port" : [
        {
            "NormalStatus" : "OPEN",
            "Protocol" : "TCP",
            "ID" : "56e8f66d",
            "DisplayName" : "SysMonAgt_Update",
            "PortNo" : 12570
        }
    ],
    "Manager" : {
        "Name" : "mco-RM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
    }
}

```

4.13.2 Adding the monitoring settings

1. Process overview

Add the port monitoring settings for the specified agent.

2. HTTP method

POST

3. URL

/umf/fw/sysmgr/portmonitor/port/**HostName**

Specify the agent name to be obtained in `HostName` within the range from 1 to 64 characters.

The agent name to be specified in **HostName** can be checked in the agent list.

`HostName` cannot be omitted.

4. Parameters

Parameter	Data type	Description	Omission	Valid value
(Root)	object	Root object type	No	-
DisplayName	string	Display name	Not possible	1 to 64 characters

Parameter	Data type	Description	Omission	Valid value
				Delete spaces in front of and next to the characters.
PortNo	number	Port number	Not possible	1 to 65535
Protocol	string	Protocol	Not possible	"TCP" "UDP"
NormalStatus	string	Normal port status	Not possible	"CLOSE" "OPEN"
UseInterval	Boolean	Specifying the monitoring interval false is set in the event of omitting.		false: Not specified true: Specified
Interval	number	Monitoring interval This cannot be specified if "Specifying the monitoring interval" is set to false. The monitoring interval is set according to the option setting value.	This cannot be specified if "Specifying the monitoring interval" is set to true.	Agent: 10 to 86400 seconds Remote host: 60 to 86400 seconds
UseConnectTim eout	Boolean	Specifying the connection timeout false is set in the event of omitting.		false: Not specified. true: Specified.
ConnectTimeout	number	Connection timeout This cannot be specified if "Specifying the connection timeout" is set to false. The connection timeout is set according to the option setting value.	This cannot be specified if "Specifying the connection timeout" is set to true.	1 to 60 seconds
UseRetryCount	Boolean	Specifying the retry count false is set in the event of omitting. If "Protocol" is set to TCP, this cannot be specified. Only if "Protocol" is set to UDP can this be specified.		false: Not specified true: Specified
RetryCount	number	Retry count This cannot be specified if "Specifying the retry count" is set to false. The retry count is set according to the option setting value.	This cannot be specified if "Specifying the retry count" is set to true.	0 to 10 times

Parameter	Data type	Description	Omission	Valid value
UseAddress	Boolean	Specifying the address false is set in the event of omitting.		false: Not specified true: Specified
Address	string	Address This cannot be specified if "Specifying the address" is set to false. The address is set as "localhost" for the agent. For the remote host, the address is the IP address of the remote host.	This cannot be specified if "Specifying the address" is set to true.	Specify the IP address (IPv4/IPv6) consisting of up to 39 characters or "localhost". Delete spaces before and after the characters. Check the validity of the format only. If IPv6 is specified for an agent not compliant with IPv6, this check is not performed. For the agent, specifying addresses other than the agent address is prohibited. For the remote host, specifying addresses other than the remote host address is prohibited.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager in which the agent exists, MoM name, or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring setting has been added successfully.
400	Bad Request	Parameter error The agent name is not specified.
404	Not Found	The agent does not exist. The manager does not exist.
409	Conflict	More than one resource exists, and it cannot be specified uniquely. * Occurs if ManagerName is omitted.
500	Internal Server Error	Internal server error

6. Response

Parameters	Data type	Description	Valid value
(ROOT)	object	Root object type	-
ID	string	Monitoring setting ID	Eight-digit hexadecimal character string that uniquely identifies the port monitoring settings in the agent
Manager	object	Manager object	-

Parameters	Data type	Description	Valid value
Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name
Manager.ErrorMessage	string	Error message	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version: 1.0

- Newly added

8. JSON Example

[Request]

```
POST /umf/fw/sysmgr/portmonitor/port/Windows HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFfEu5MRW4VeIyA
tw=:03rhfOK5YzLd+v8zf7y4YMQffbvbVAPj5XWgS0tLme4Q=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 312

{
    "DisplayName" : "SysMonAgt",
    "PortNo" : 12570,
    "Protocol" : "TCP",
    "NormalStatus" : "OPEN",
    "UseInterval" : true,
    "Interval" : 60,
    "UseConnectTimeout" : true,
    "ConnectTimeout" : 4,
    "UseAddress" : true,
    "Address" : "127.0.0.1",
    "Report" : false,
    "Manager" : {
        "Name" : "mco-RM"
    }
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
```

```

Content-Type: application/json; charset=UTF-8
Content-Length: 99
Date: Wed, 16 Mar 2016 06:00:19 GMT

{
    "ID" : "56e8f66d",
    "Manager" : {
        "Name" : "mco-RM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
    }
}

```

4.13.3 Updating the monitoring settings

1. Process overview

Update the port monitoring settings for the specified agent.

2. HTTP method

PUT

3. URL

/umf/fw/sysmgr/portmonitor/port/**HostName**/**ID**

Specify the agent name to be obtained in **HostName** within the range of 1 to 64 characters.

The agent name to be specified in **HostName** can be checked in the agent list.

HostName cannot be omitted.

Specify the monitoring setting ID by using the eight-digit hexadecimal character string in **ID**.

Use the monitoring setting list to confirm the monitoring setting ID to be specified in **ID**.

ID cannot be omitted.

4. Parameters

Parameter	Data type	Description	Omission	Valid value
(Root)	object	Root object type	No	-
DisplayName	string	Display name This is not changed in the event of omitting.		1 to 64 characters Delete spaces before and after the characters.
PortNo	number	Port number This is not changed in the event of omitting.		1 to 65535
Protocol	string	Protocol This is not changed in the event of omitting.		"TCP" "UDP"
NormalStatus	string	Normal port status This is not changed in the event of omitting.		"CLOSE" "OPEN"

Parameter	Data type	Description	Omission	Valid value
UseInterval	Boolean	Specifying the monitoring interval This is not changed in the event of omitting.		false: Not specified. true: Specified.
Interval	number	Monitoring interval This cannot be specified if "Specifying the monitoring interval" is set to false. The monitoring interval is set according to the option setting value. If "Specifying the monitoring interval" is omitted, this value cannot be specified and changed.	This cannot be specified if "Specifying the monitoring interval" is set to true.	Agent: 10 to 86400 seconds Remote host: 60 to 86400 seconds
UseConnectTimeout	Boolean	Specifying the connection timeout This is not changed in the event of omitting.		false: Not specified true: Specified
ConnectTimeout	number	Connection timeout This cannot be specified if "Specifying the connection timeout" is set to false. The connection timeout is set according to the option setting value. If "Specifying the connection timeout" is omitted, this value cannot be specified and changed.	This cannot be specified if "Specifying the connection timeout" is set to true.	1 to 60 seconds
UseRetryCount	Boolean	Specifying the retry count This is not changed in the event of omitting. If "Protocol" is set to TCP, this cannot be specified. This can be specified only if "Protocol" is set to UDP.		false: Not specified true: Specified
RetryCount	number	Retry count This cannot be specified if "Specifying the retry count" is set to false. The retry count is set according to the option setting value. If "Specifying the retry count" is omitted, this	This cannot be specified if "Specifying the retry count" is set to true.	0 to 10 times

Parameter	Data type	Description	Omission	Valid value
		value cannot be specified and changed.		
UseAddress	Boolean	Specifying the address This is not changed in the event of omitting.		false: Not specified true: Specified
Address	string	Address This cannot be specified if "Specifying the address" is set to false. The address is set as "localhost" for the agent. For the remote host, the address is the IP address of the remote host. If "Specifying the address" is omitted, this value cannot be specified and changed.	This cannot be specified if "Specifying the address" is set to true.	Specify IP address (IPv4/IPv6) consisting of up to 39 characters or "localhost". Delete spaces before and after the characters. Check the validity of the format only. If IPv6 is specified for an agent not compliant with IPv6, this check is not performed. For the agent, specifying addresses other than the agent address is prohibited. For the remote host, specifying addresses other than the remote host address is prohibited.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager in which the agent exists, MoM name, or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring setting has been updated successfully.
400	Bad Request	Parameter error The agent name is not specified. The monitoring setting ID is not specified.
404	Not Found	The agent does not exist. The manager does not exist. The monitoring setting ID does not exist.
409	Conflict	More than one resource exists, and it cannot be specified uniquely. * Occurs if ManagerName is omitted.
500	Internal Server Error	Internal server error

6. Response

Parameters	Data type	Description	Valid value
(ROOT)	object	Root object type	-

Parameters	Data type	Description	Valid value
ID	string	Monitoring setting ID	Eight-digit hexadecimal character string that uniquely identifies the port monitoring settings in the agent
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name
Manager.ErrorMessage	string	Error message	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version: 1.0

- Newly added

8. JSON Example

[Request]

```
PUT /umf/fw/sysmgr/portmonitor/port/Windows/56e8f66d HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyA
tw=:03rhfOK5YzLd+v8zf7y4YMQffbvVAPj5XWgSOTLme4Q=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=UTF-8
Content-Length: 194

{
    "UseInterval" : true,
    "UseConnectTimeout" : true,
    "UseAddress" : true,
    "Interval" : 10,
    "ConnectTimeout" : 5,
    "DisplayName" : "SysMonAgt_Update",
    "Address" : "192.168.0.243"
}
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
```

```

Content-Length: 99
Date: Thu, 17 Mar 2016 01:50:56 GMT

{
    "ID" : "56e8f66d",
    "Manager" : {
        "Name" : "mco-RM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
    }
}

```

4.13.4 Deleting the monitoring settings

1. Process overview

Delete the port monitoring settings for the specified agent.

2. HTTP method

DELETE

3. URL

`/umf/fw/sysmgr/portmonitor/port/HostName/ID?ManagerName=ManagerName`

Specify the agent name to be obtained in *HostName* within the range from 1 to 64 characters.

The agent name to be specified in ***HostName*** can be checked in the agent list.

HostName cannot be omitted.

Specify the monitoring setting ID by using the eight-digit hexadecimal character string in *ID*.

Use the monitoring setting list to confirm the monitoring setting ID to be specified in *ID*.

Specify "00000000" in *ID* to delete the monitoring settings of all ports in the target agent.

ID cannot be omitted.

If more than one manager exists, specify the manager name obtained from the agent list as ***ManagerName***.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring setting has been deleted successfully.
400	Bad Request	Parameter error The agent name is not specified. The monitoring setting ID is not specified.
404	Not Found	The agent does not exist. The manager does not exist. The monitoring setting ID does not exist.

HTTP status code	Meaning	Description
409	Conflict	More than one resource exists, and it cannot be specified uniquely. * Occurs if ManagerName is omitted.
500	Internal Server Error	Internal server error

6. Response

Parameters	Data type	Description	Valid value
(ROOT)	object	Root object type	-
ID	string[]	Monitoring setting ID	Eight-digit hexadecimal character string that uniquely identifies the port monitoring settings in the agent If the monitoring setting count is 0, the number of elements of the array is set to 0.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name
Manager.ErrorMessage	string	Error message	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version: 1.0
 - Newly added

8. JSON Example

[Request]

```
DELETE /umf/fw/sysmgr/portmonitor/port/Windows/56e8f66d HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAffEu5MRW4VeIyA
tw=:03rhfOK5YzLd+v8zf7y4YMQffbvbVAPj5XWgS0tLme4Q=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json
Content-Length: 0
```

[Response]

```
HTTP/1.1 200 OK
```

```

Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 101
Date: Thu, 17 Mar 2016 07:58:48 GMT

{
    "ID" : [
        "56e8f66d"
    ],
    "Manager" : {
        "Name" : "mco-RM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
    }
}

```

4.13.5 Obtaining the monitoring settings

1. Process overview

Obtain the port monitoring settings for the specified agent.

2. HTTP method

GET

3. URL

/umf/fw/sysmgr/portmonitor/port/**HostName**/**ID**?ManagerName=**ManagerName**

Specify the agent name to be obtained in **HostName** within the range of 1 to 64 characters.

The agent name to be specified in **HostName** can be checked in the agent list.

HostName cannot be omitted.

Specify the monitoring setting ID by using the eight-digit hexadecimal character string in **ID**.

Use the monitoring setting list to confirm the monitoring setting ID to be specified in **ID**.

ID cannot be omitted.

If more than one manager exists, specify the manager name obtained from the agent list as **ManagerName**.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring setting has been obtained successfully.
400	Bad Request	Parameter error

HTTP status code	Meaning	Description
		The agent name is not specified. The monitoring setting ID is not specified.
404	Not Found	The agent does not exist. The manager does not exist. The monitoring setting ID does not exist.
409	Conflict	More than one resource exists, and it cannot be specified uniquely. * Occurs if ManagerName is omitted.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Port	object[]	Array of the monitoring settings	-
Port[n].DisplayName	string	Display name	1 to 64 characters
Port[n].ID	string	Monitoring setting ID	Eight-digit hexadecimal character string that uniquely identifies the port monitoring settings in the agent
Port[n].PortNo	number	Port number	1 to 65535
Port[n].Protocol	string	Protocol	"TCP" "UDP"
Port[n].NormalStatus	string	Normal port status	"CLOSE" "OPEN"
Port[n].UseInterval	Boolean	Specifying the monitoring interval	false: Not specified. true: Specified.
Port[n].Interval	number	Monitoring interval If "Specifying the monitoring interval" is set to false, return the current option setting values.	Agent: 10 to 86400 seconds Remote host: 60 to 86400 seconds
Port[n].UseConnectTimeout	Boolean	Specifying the connection timeout	false: Not specified. true: Specified.

Parameter	Data type	Description	Valid value
Port[n].ConnectTimeout	number	Connection timeout If "Specifying the connection timeout" is set to false, return the current option setting values.	1 to 60 seconds
Port[n].UseRetryCount	Boolean	Specifying the retry count If the protocol is set to TCP, this cannot be returned. This can be returned only if the protocol is set to UDP.	false: Not specified true: Specified
Port[n].RetryCount	number	Retry count If "Specifying the retry count" is set to false, the current option setting values are returned. If the protocol is set to TCP, this cannot be returned. This can be returned only if the protocol is set to UDP.	0 to 10 times
Port[n].UseAddress	Boolean	Specifying the address	false: Not specified. true: Specified.
Port[n].Address	string	Address If "Specifying the address" is set to false, return the default value. (The address is set as "localhost" for the agent.)	IP address (IPv4/IPv6) consisting of up to 39 characters or "localhost"

Parameter	Data type	Description	Valid value
		For the remote host, the address is the IP address of the remote host.)	
Port[n].Report	Boolean	Report setting	false: Report setting disabled true: Report setting enabled
Port[n].ReportID	string	Report ID If "Report setting" is set to false, "00000000" is returned.	Eight-digit hexadecimal character string that uniquely identifies the report setting or "00000000"
Port[n].ErrorReport	Boolean	Reporting only in the event of abnormality If "Report setting" is set to false, return "false".	false: Report all cases. true: Report abnormal cases only.
HostType	number	Host type	0: Agent 1: Remote host
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name
Manager.ErrorMessage	string	Error message	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version: 1.0
 - Newly added

8. JSON Example

[Request]

```
GET /umf/fw/sysmgr/portmonitor/port/Windows/56e8f66d HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAffEu5MRW4VeIyA
tw=:03rhfOK5YzLd+v8zf7y4YMQffbvbVAPj5XWgS0tLme4Q=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
```

```
Content-Length: 0
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 375
Date: Thu, 17 Mar 2016 01:43:27 GMT

{
    "HostType" : 0,
    "Port" : {
        "ReportID" : "00000000",
        "Report" : false,
        "UseInterval" : true,
        "UseConnectTimeout" : true,
        "ErrorReport" : false,
        "NormalStatus" : "OPEN",
        "UseAddress" : true,
        "Interval" : 60,
        "Protocol" : "TCP",
        "ConnectTimeout" : 4,
        "ID" : "56e8f66d",
        "DisplayName" : "SysMonAgt",
        "Address" : "127.0.0.1",
        "PortNo" : 12570
    },
    "Manager" : {
        "Name" : "mco-RM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
    }
}
```

4.13.6 Obtaining the monitoring status

1. Process overview

Obtain the port monitoring status for the specified agent.

2. HTTP method

```
GET
```

3. URL

```
/umf/fw/sysmgr/portmonitor/status/HostName/ID?ManagerName=ManagerName
```

Specify the agent name to be obtained in `HostName` within the range of 1 to 64 characters.

The agent name to be specified in ***HostName*** can be checked in the agent list.

HostName cannot be omitted.

Specify the monitoring setting ID by using the eight-digit hexadecimal character string in ***ID***.

Use the monitoring setting list to confirm the monitoring setting ID to be specified in ***ID***.

Specify "00000000" in ***ID*** to obtain the status of monitoring all ports in the target agent.

ID cannot be omitted.

If more than one manager exists, specify the manager name obtained from the agent list as ***ManagerName***.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The monitoring status has been obtained successfully.
400	Bad Request	Parameter error The agent name is not specified. The monitoring setting ID is not specified.
404	Not Found	The agent does not exist. The manager does not exist. The monitoring setting ID does not exist.
409	Conflict	More than one resource exists, and it cannot be specified uniquely. * Occurs if ManagerName is omitted.
500	Internal Server Error	Internal server error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Port	object[]	Array of the monitoring settings	If the monitoring setting count is 0, the number of elements of the array is set to 0.
Port[n].DisplayName	string	Display name	1 to 64 characters
Port[n].ID	string	Monitoring setting ID	Eight-digit hexadecimal character string that uniquely identifies the port monitoring settings in the agent
Port[n].PortStatus	string	Port status	"CLOSE" "OPEN" "UNKNOWN"
Port[n].Severity	number	Severity	264: Normal 257: Abnormal 262: Unknown

Parameter	Data type	Description	Valid value
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name
Manager.ErrorMessage	string	Error message	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version: 1.0
 - Newly added

8. JSON Example

[Request]

```
GET /umf/fw/sysmgr/portmonitor/status/Windows4/00000000 HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyA
tw=:03rhfOK5YzLd+v8zf7y4YMQffbvVAPj5XWgS0tLme4Q=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 171
Date: Fri, 18 Mar 2016 07:23:16 GMT

{
  "Port" : [
    {
      "PortStatus" : "OPEN",
      "Severity" : 264,
      "ID" : "56ebac9c",
      "DisplayName" : "SysMonAgt"
    }
  ],
  "Manager" : {
    "Name" : "mco-RM",
```

```

        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
    }
}

```

4.13.7 Obtaining the option settings

1. Process overview

Obtain the option settings of the service port monitoring for the specified manager.

2. HTTP method

GET

3. URL

/umf/fw/sysmgr/portmonitor/option?ManagerName=**ManagerName**

Specify the manager name obtained from the agent list in **ManagerName**.

ManagerName cannot be omitted.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The option settings have been obtained successfully.
400	Bad Request	Parameter error
404	Not Found	The manager does not exist.
500	Internal Server Error	Internal server error

6. Response

Parameters	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Option	object[]	Option setting	The number of elements is one.
Option[n].Interval	number	Monitoring interval The default value is 30 seconds.	10 to 86400 seconds
Option[n].ConnectTimeout	number	Connection timeout The default value is 3 seconds.	1 to 60 seconds

Parameters	Data type	Description	Valid value
Option[n].RetryCount	number	Retry count The default value is 0 times.	0 to 10 times
Option[n].RemoteInterval	number	Remote host monitoring interval The default value is 60 seconds.	60 to 86400 seconds
Option[n].RemoteConnectTimeout	number	Remote host connection timeout The default value is 3 seconds.	1 to 60 seconds
Option[n].RemoteRetryCount	number	Remote host retry count The default value is 0 times.	0 to 10 times
Option[n].AgtStatusSave	Boolean	Retain the monitoring status while the agent is disconnected. The default value is false.	false: Not retained true: Retained
Option[n].Manager	object	Manager object	-
Option[n].Manager.Name	string	Manager name	Name of the manager for which option setting is obtained, MoM name, or RM name
Option[n].Manager.ErrorMessage	string	Error message	-
Option[n].Manager.Status	number	Communication error code	-
Option[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version: 1.0
 - Newly added

8. JSON Example

[Request]

```
GET /umf/fw/sysmgr/portmonitor/option?ManagerName=mco-RM HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
```

```
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyA
tw=:03rhfOK5YzLd+v8zf7y4YMQffbvVAPj5XWgS0tLme4Q=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 231
Date: Fri, 18 Mar 2016 07:26:56 GMT

{
    "Option" : [
        {
            "RemoteRetryCount" : 0,
            "AgtStatusSave" : true,
            "RetryCount" : 2,
            "RemoteInterval" : 60,
            "RemoteConnectTimeout" : 3,
            "Interval" : 10,
            "ConnectTimeout" : 5,
            "Manager" : {
                "Name" : "mco-RM",
                "Status" : 200,
                "StatusCode" : 200,
                "ErrorMessage" : "200 OK"
            }
        }
    ]
}
```

4.13.8 Updating the option settings

1. Process overview

Update the option settings of the service port monitoring for the specified manager.

2. HTTP method

PUT

3. URL

/umf/fw/sysmgr/portmonitor/option

4. Parameters

Parameters

Parameter	Data type	Description	Omission	Valid value
(Root)	object	Root object type	Not possible	-
Interval	number	Monitoring interval		10 to 86400 seconds
ConnectTimeout	number	Connection timeout		1 to 60 seconds
RetryCount	number	Retry count		0 to 10 times
RemoteInterval	number	Remote host monitoring interval		60 to 86400 seconds
RemoteConnectTim eout	number	Remote host connection timeout		1 to 60 seconds
RemoteRetryCount	number	Remote host retry count		0 to 10 times
AgtStatusSave	Boolean	Retain the monitoring status while the agent is disconnected.		false: Not retained true: Retained
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager for option settings, MoM name, or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The option settings have been updated successfully.
400	Bad Request	Parameter error
404	Not Found	The manager does not exist.
500	Internal Server Error	Internal server error

6. Response

Parameters	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Option	object[]	Option setting	The number of elements is one.
Option[n].Interval	number	Monitoring interval The default value is 30 seconds.	10 to 86400 seconds
Option[n].ConnectTim eout	number	Connection timeout The default value is 3 seconds.	1 to 60 seconds
Option[n].RetryCount	number	Retry count The default value is 0 times.	0 to 10 times
Option[n].RemoteInte rval	number	Remote host monitoring interval The default value is 60 seconds.	60 to 86400 seconds
Option[n].RemoteCon nectTimeout	number	Remote host connection timeout The default value is 3 seconds.	1 to 60 seconds

Parameters	Data type	Description	Valid value
Option[n].RemoteRetryCount	number	Remote host retry count The default value is 0 times.	0 to 10 times
Option[n].AgtStatusSave	Boolean	Retain the monitoring status while the agent is disconnected. The default value is false.	false: Not retained true: Retained
Option[n].Manager	object	Manager object	-
Option[n].Manager.Name	string	Manager name	Name of the manager for option settings, MoM name, or RM name
Option[n].Manager.ErrorMessage	string	Error message	-
Option[n].Manager.Status	number	Communication error code	-
Option[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version: 1.0
 - Newly added

8. JSON Example

[Request]

```
PUT /umf/fw/sysmgr/portmonitor/option HTTP/1.1
Host: ClientHost
Date: Thu, 1 Oct 2015 00:00:00 GMT
Authorization: SharedKeyLite teTQgA08YR5D+kd5Hiua+DYfRVAFFEu5MRW4VeIyAtw=:03rhfOK5YzLd+v8zf7y4YMQffbvbVAPj5XWgS0tLme4Q=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 216

{
  "Interval" : 30,
  "ConnectTimeout" : 3,
  "RetryCount" : 0,
  "RemoteInterval" : 60,
  "RemoteConnectTimeout" : 3,
  "RemoteRetryCount" : 0,
  "AgtStatusSave" : false,
  "Manager" : {
    "Name" : "mco-RM"
  }
}
```

[Response]

```
HTTP/1.1 200 OK
```

```

Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 232
Date: Fri, 18 Mar 2016 07:28:42 GMT

{
    "Option" : [
        {
            "RemoteRetryCount" : 0,
            "AgtStatusSave" : false,
            "RetryCount" : 0,
            "RemoteInterval" : 60,
            "RemoteConnectTimeout" : 3,
            "Interval" : 30,
            "ConnectTimeout" : 3,
            "Manager" : {
                "Name" : "mco-RM",
                "Status" : 200,
                "StatusCode" : 200,
                "ErrorMessage" : "200 OK"
            }
        }
    ]
}

```

4.14 Message view

4.14.1 Obtaining filters

1. Process overview

Obtain the filter definition in the specified agent.

Elements of the filter array is arranged in order of priority.

2. HTTP method

GET

3. URL

/umf/fw/sysmgr/messageview/filters/**HostName**?ManagerName=**ManagerName**

Specify the target agent name in **HostName** within the range of 1 to 64 characters.

The agent name to be specified in **HostName** can be checked in the agent list.

HostName cannot be omitted.

For an environment where more than one manager exists, specify the target manager name as **ManagerName**.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	A filter has been obtained successfully.
400	Bad Request	Parameter error
404	Not Found	The agent does not exist. The manager does not exist. The agent name is not specified.
409	Conflict	More than one resource exists, and it cannot be specified uniquely. * Occurs if ManagerName is omitted.
500	Internal Server Error	Internal server error Parameter error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
HostName	string	Agent name	Character string that identifies the agent uniquely
Filter	object[]	Filter definition array	-
Filter[n].FilterID	string	Filter ID	Eight-digit hexadecimal character string that uniquely identifies the filter definition in the agent
Filter[n].FilterName	string	Filter name	1 to 256 characters
Filter[n].CategoryNot	number	Category negation specification	0: Positive 1: Negative
Filter[n].Category	string	Category	Up to 32 characters
Filter[n].ApplicationNot	number	Application negation specification	0: Positive 1: Negative
Filter[n].Application	string	Application	Up to 128 characters
Filter[n].ObjectNot	number	Object negation specification	0: Positive 1: Negative
Filter[n].Object	string	Object	Up to 128 characters
Filter[n].MessageIDNot	number	Message ID negation specification	0: Positive 1: Negative
Filter[n].MessageID	string	Message ID	Up to 128 characters
Filter[n].MessageTextNot	number	Message text negation specification	0: Positive 1: Negative

Parameter	Data type	Description	Valid value
Filter[n].MessageText	string	Message text	Up to 1024 characters
Filter[n].SeverityNot	number	Severity negation specification	0: Positive 1: Negative
Filter[n].Severity	number	Severity	256286512543 0 is not specified. * See " Severity (page 437) ".
Filter[n].SelPos	object[]	Position specification array	Eight elements of array Omit all parameters (negation specification, position, comparison type, comparison value) of the elements for which the position is not specified. Even if some elements are not used, the subsequent elements are not moved forward.
Filter[n].SelPos[m].Type	number	Negation specification	0: Positive 1: Negative
Filter[n].SelPos[m].Position	number	Position	1 to 1024
Filter[n].SelPos[m].Compare Type	number	Comparison type	0: = 1: <> 2: >= 3: > 4: <= 5: <
Filter[n].SelPos[m].Value	string	Comparison value	1 to 64 characters
Filter[n].SelKey	object[]	Key specification array	Eight elements of array Omit all parameters (negation specification, key character string, comparison type, comparison value) of the elements for which the key is not specified. Even if some elements are not used, the subsequent elements are not moved forward.
Filter[n].SelKey[m].Type	number	Negation specification	0: Positive 1: Negative
Filter[n].SelKey[m].Key	string	Key character string	1 to 64 characters
Filter[n].SelKey[m].Compare Type	number	Comparison type	0: = 1: <> 2: >= 3: > 4: <= 5: <
Filter[n].SelKey[m].Value	string	Comparison value	Up to 128 characters If the comparison type is set to "=", regular expression format is used. If the comparison type is set to values other than "=", the normal character string is used.

Parameter	Data type	Description	Valid value
Filter[n].OverWriteSeverity	number	Severity change When 0 is set, no change will be made. * See " Severity (page 437) ".	256 to 286, 512 to 543
Filter[n].DisplayPosition	number	Position from which to start display	1 to 1024
Filter[n].HelpApplication	string	Help application	Up to 256 characters
Filter[n].HelpDirectory	string	Work directory used when the Help application is started	Up to 256 characters
Filter[n].HelpOption	string	Help application startup option	Up to 128 characters
Filter[n].Relation1	number	Related information 1	0: Disabled 1: Enabled
Filter[n].Relation1Def	object	Definition of related information 1	Return this only if Related information 1 is valid.
Filter[n].Relation1Def.DisplayText	string	Display name	Up to 16 characters
Filter[n].Relation1Def.Application	string	Application	Up to 256 characters
Filter[n].Relation1Def.Directory	string	Work directory	Up to 256 characters
Filter[n].Relation1Def.Option	string	Option	Up to 1024 characters
Filter[n].Relation2	number	Related information 2	0: Disabled 1: Enabled
Filter[n].Relation2Def	object	Definition of related information 2	Return this only if Related information 2 is valid.
Filter[n].Relation2Def.DisplayText	string	Display name	Up to 16 characters
Filter[n].Relation2Def.Application	string	Application	Up to 256 characters
Filter[n].Relation2Def.Directory	string	Work directory	Up to 256 characters
Filter[n].Relation2Def.Option	string	Option	Up to 1024 characters
Filter[n].Report	number	Report specification	0: Disabled 1: Enabled
Filter[n].ReportID	string	Report ID	Eight-digit hexadecimal number

Parameter	Data type	Description	Valid value
Filter[n].ReportAutoConfirm	number	Automatically confirmed on completion of reporting	0: Auto confirmation disabled. 1: Auto confirmation enabled.
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name
Manager.ErrorMessage	string	Error message	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version : 1.0
 - Newly added

8. JSON example

[Request]

```
GET /umf/fw/sysmgr/messageview/filters/AGENT01 HTTP/1.1
Host: ClientHost
Date: Wed, 20 Apr 2016 00:00:00 GMT
Authorization: SharedKeyLite ZIrgoOV5r1JOJwt3/M6e3M9PIDRntc37o375njmXo
Pk=:X+HnxjAP9jXuD/nz5khRVDMggIY5aR0wmjGCK0bBnr4=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 1365
Date: Wed, 20 Apr 2016 00:55:24 GMT

{
    "HostName" : "AGENT01",
    "Filter" : [
        {
            "HelpOption" : "",
```

```
"DisplayPosition" : 1,
"Application" : "tpmsg",
"ReportID" : "00000000",
"Report" : 0,
"Relation1Def" : {
    "Application" : "relation1.exe",
    "Option" : "",
    "Directory" : "",
    "DisplayText" : "relation1"
},
"ObjectNot" : 0,
"FilterID" : "5716d87d",
"SelKey" : [
    {
        "CompareType" : 0,
        "Type" : 0,
        "Key" : "Key1",
        "Value" : "Value1"
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Key" : "Key2",
        "Value" : "Value2"
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Key" : "Key3",
        "Value" : "Value3"
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Key" : "Key4",
        "Value" : "Value4"
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Key" : "Key5",
        "Value" : "Value5"
    }
],
"CategoryNot" : 0,
"MessageIDNot" : 0,
"ReportAutoConfirm" : 0,
"Severity" : 0,
"OverWriteSeverity" : 0,
"SelPos" : [
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "Value1",
        "Position" : 1
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "Value2",
        "Position" : 2
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "Value3",
        "Position" : 3
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "Value4",
        "Position" : 4
    },
    {
        "CompareType" : 0,
        "Type" : 0,
        "Value" : "Value5",
        "Position" : 5
    }
]
```

```

        }
    ],
    "MessageTextNot" : 0,
    "MessageID" : "00000000",
    "Relation1" : 1,
    "Relation2" : 0,
    "HelpDirectory" : "",
    "SeverityNot" : 0,
    "Object" : "",
    "HelpApplication" : "",
    "ApplicationNot" : 0,
    "Category" : "System",
    "MessageText" : "This is test message",
    "FilterName" : "FilterName1"
}
],
"Manager" : {
    "Name" : "mco-MoM",
    "Status" : 200,
    "StatusCode" : 200,
    "ErrorMessage" : "200 OK"
}
}

```

4.14.2 Filter setting

1. Process overview

Set the filter definition in the specified agent.

Elements of the filter array is arranged in order of priority.

The filter setting replaces all filters of the target agent.

Only anyone filter cannot be specified, and it cannot be added, renewed, deleted, or rearranged.

2. HTTP method

PUT

3. URL

/umf/fw/sysmgr/messageview/filters/**HostName**

Specify the target agent name in **HostName** within the range of 1 to 64 characters.

The agent name to be specified in **HostName** can be checked in the agent list.

HostName cannot be omitted.

4. Parameters

Parameter	Data type	Description	Omission	Valid value
(Root)	object	Root object type	Not possible	-
Filter	object[]	Filter array	Not possible	To delete all filters, set the number of the array element to 0.

Parameter	Data type	Description	Omission	Valid value
Filter[n].FilterID	string	Filter ID	Not possible	Eight-digit hexadecimal character string that uniquely identifies the filter definition in the agent Specify "00000000" for a new one. Specify the original filter ID for renewing.
Filter[n].FilterName	string	Filter name	Not possible	Specify a value within the range of 1 to 256 characters. Note that a replacement character string can be specified. * See " Replacement character string (page 438) ".
Filter[n].CategoryNot	number	Category negation specification		0: Positive 1: Negative The default is 0.
Filter[n].Category	string	Category	Cannot be omitted if the category negation specification is set to 1.	Specify a value by using up to 32 characters. The default is a null character string.
Filter[n].ApplicationNot	number	Application negation specification		0: Positive 1: Negative The default is 0.
Filter[n].Application	string	Application	Cannot be omitted if the application negation specification is set to 1.	Specify a value by using up to 128 characters in regular expression format. The maximum length of the application is 32 characters. The default is a null character string.
Filter[n].ObjectNot	number	Object negation specification		0: Positive 1: Negative The default is 0.
Filter[n].Object	string	Object	Cannot be omitted if the object negation specification is set to 1.	Specify a value by using up to 128 characters in regular expression format. The maximum length of the message object is 32 characters. The default is a null character string.
Filter[n].MessageIDNot	number	Message ID negation specification		0: Positive 1: Negative The default is 0.
Filter[n].MessageID	string	Message ID	Cannot be omitted if the message ID	Specify a value by using up to 128 characters in regular expression format.

Parameter	Data type	Description	Omission	Valid value
			negation specification is set to 1.	The maximum length of a message ID of a message is 32 characters. The default is a null character string.
Filter[n].MessageTextNot	number	Message text negation specification		0: Positive 1: Negative The default is 0.
Filter[n].MessageText	string	Message text	Cannot be omitted if the message text negation specification is set to 1.	Specify a value by using up to 1024 characters in regular expression format. The maximum length of a message text of a message is 1024 characters. The default is a null character string.
Filter[n].SeverityNot	number	Severity negation specification		0: Positive 1: Negative The default is 0.
Filter[n].Severity	number	Severity	Cannot be omitted if the severity negation specification is set to 1.	0, 256 to 286, 512 to 543 0 is not specified. The default is 0 (not specified). * See " Severity (page 437) ".
Filter[n].SelPos	object[]	Position specification array		Specify up to eight elements of the array. If all parameters (negation specification, position, comparison type, comparison value) are omitted, the related element array is set as unavailable. Even if some elements are not used, the subsequent elements are not moved forward. If the negation specification is set to 0, the position to 1, the comparison type to 0, and the comparison value to "", the position specification is omitted.
Filter[n].SelPos[m].Type	number	Negation specification		0: Positive 1: Negative The default is 0.
Filter[n].SelPos[m].Position	number	Position	Cannot be omitted if the position is specified.	1 to 1024
Filter[n].SelPos[m].CompareType	number	Comparison type	Cannot be omitted if the position is specified.	0: = 1: <> 2: >=

Parameter	Data type	Description	Omission	Valid value
				3: > 4: <= 5: <
Filter[n].SelPos[m].Value	string	Comparison value	Cannot be omitted if the position is specified.	Specify a value within the range of 1 to 64 characters. Double quotation marks cannot be used in the comparison value. Spaces before and after the value cannot be trimmed.
Filter[n].SelKey	object[]	Key specification array		Specify up to eight elements of the array. If all parameters (negation specification, key character string, comparison type, comparison value) are omitted, the related array is set as unavailable. Even if some elements are not used, the subsequent elements are not moved forward. If the negation specification is set to 0, the key value to 1, the comparison type to 0, and the comparison value to "", the key specification is omitted.
Filter[n].SelKey[m].Type	number	Negation specification		0: Positive 1: Negative The default is 0.
Filter[n].SelKey[m].Key	string	Key character string	Cannot be omitted if the key is specified.	Specify a value within the range of 1 to 64 characters. Double quotation marks cannot be used for the key character string. Spaces before and after the value cannot be trimmed. * The key value and comparison value used for the key specification must be enclosed in separators in the message. Recognizable separators are one-byte space, (,), [,], { , }, <, and >. A character string containing one or more two-byte spaces cannot be specified for the key value. Note that spaces between the key, "=" and the value is ignored.

Parameter	Data type	Description	Omission	Valid value
Filter[n].SelKey[m].CompareType	number	Comparison type	Cannot be omitted if the key is specified.	0: = 1: <> 2: >= 3: > 4: <= 5: <
Filter[n].SelKey[m].Value	string	Comparison value	Cannot be omitted if the key is specified.	Specify a value within the range of 1 to 128 characters. If the comparison type is set to "=" , regular expression format is used. If the comparison type is set to values other than "=", the normal character string is used. Double quotation marks cannot be used in the comparison value.
Filter[n].OverWriteSeverity	number	Severity change		0, 256 to 286, 512 to 543 When 0 is set, no change will be made. The default is 0 (no change). * See "Severity (page 437)".
Filter[n].DisplayPosition	number	Position from which to start display		Specify a value within the range of 1 to 1024. The default is 1.
Filter[n].HelpApplication	string	Help application		Specify a value by using up to 256 characters. The default is a null character string.
Filter[n].HelpDirectory	string	Work directory used when the Help application is started		Up to 256 characters The default is a null character string. Specify this item when the Help application is not a null character string.
Filter[n].HelpOption	string	Help application startup option The replacement character string is valid only when it is used on the console.		Specify a value by using up to 128 characters. The default is a null character string. A replacement character string can be specified. Specify this item when the Help application is not a null character string. * See "Replacement character string (page 438)".
Filter[n].Relation1	number	Related information 1		0: Disabled 1: Enabled

Parameter	Data type	Description	Omission	Valid value
				The default is 0.
Filter[n].RelatedInfo1Def	object	Definition of related information 1	Cannot be omitted if Related information 1 is set to 1.	Specify this item only when related information 1 is 1 (enabled).
Filter[n].RelatedInfo1Def.DisplayNameText	string	Display name	Cannot be omitted if Related information 1 is set to 1.	Specify a value by using up to 16 characters.
Filter[n].RelatedInfo1Def.Application	string	Application	Cannot be omitted if Related information 1 is set to 1.	Specify a value by using up to 256 characters.
Filter[n].RelatedInfo1Def.Directory	string	Work directory		Specify a value by using up to 256 characters. The default is a null character string.
Filter[n].RelatedInfo1Def.Option	string	Option The replacement character string is valid only when it is used on the console.		Specify a value by using up to 1024 characters. The default is a null character string. A replacement character string can be specified. * See " Replacement character string (page 438) ".
Filter[n].RelatedInfo2	number	Related information 2		0: Disabled 1: Enabled The default is 0.
Filter[n].RelatedInfo2Def	object	Definition of related information 2	Cannot be omitted if Related information 2 is set to 1.	Specify this item only when related information 2 is 1 (enabled).
Filter[n].RelatedInfo2Def.DisplayNameText	string	Display name	Cannot be omitted if Related information 2 is set to 1.	Specify a value by using up to 16 characters.
Filter[n].RelatedInfo2Def.Application	string	Application	Cannot be omitted if Related information 2 is set to 1.	Specify a value by using up to 256 characters.
Filter[n].RelatedInfo2Def.Directory	string	Work directory		Specify a value by using up to 256 characters. The default is a null character string.
Filter[n].RelatedInfo2Def.Option	string	Option The replacement character string is valid only when it is used on the console.		Specify a value by using up to 1024 characters. The default is a null character string. A replacement character string can be specified. * See " Replacement character string (page 438) ".
Filter[n].Report	number	Report specification		0: Disabled 1: Enabled

Parameter	Data type	Description	Omission	Valid value
				The default is 0.
Filter[n].PatlitePolicyID	string[]	Patlite policy ID	Cannot be omitted if report specification is 1 when a filter is added and if the patrol lamp policy ID and mail policy ID are not specified.	Eight-digit hexadecimal number Specify the patrol lamp policy ID. If this item is omitted, the patrol lamp policy is not set (registered or updated).
Filter[n].MailPolicyID	string	Mail policy ID	Cannot be omitted if report specification is 1 when a filter is added and if the patrol lamp policy ID and action policy ID are not specified.	Eight-digit hexadecimal number Specify the mail policy ID. If this item is omitted (or "00000000" is specified), the mail policy is not set (registered or updated).
Filter[n].ActionPolicyID	string	Action policy ID	Cannot be omitted if report specification is 1 when a filter is added and if the patrol lamp policy ID and mail policy ID are not specified.	Eight-digit hexadecimal number Specify the action policy ID. If this item is omitted (or "00000000" is specified), the action policy is not set (registered or updated).
Filter[n].ReportID	string	Report ID	Cannot be omitted if report specification is 1 when a filter is updated and if the patrol lamp policy ID and action policy ID are not specified.	Eight-digit hexadecimal number Specify the report ID that is set to the update source filter. The default is 00000000.
Filter[n].ReportAutoConfirm	number	Automatically confirmed on completion of reporting		0: Auto confirmation disabled. 1: Auto confirmation enabled. The default is 0.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager in which the agent exists, MoM name, or RM name

"In the event of omitting" means omitting of parameter keys.

A parameter error occurs if the parameter key is specified but null is specified as the value.

Omit the parameter key itself in the event of omitting.

Combination of the report specification is shown below.

The report can be set even if 0 (invalid) is set in Filter.Report.

By switching ON/OFF of the report setting, use of a report can be stopped or resumed temporarily while the report setting is retained.

Type	Filter ID FilterID	Policy ID PatlitePolicyID MailPolicyID ActionPolicyID	Report ID ReportID	Remarks
New Reporting setting disabled	00000000	Omitted or 00000000 (The patrol lamp policy ID cannot be set to 00000000.)	Omitted or 00000000	
New Report setting is enabled	00000000	Combination of the patrol lamp ID, mail policy ID, or action policy ID	Omitted or 00000000	
Renewal Reporting setting disabled → disabled	Filter ID before renewal	Omitted or 00000000	Omitted or 00000000	
Renewal Reporting setting disabled → enabled	Filter ID before renewal	Combination of the patrol lamp ID, mail policy ID, or action policy ID	Omitted or 00000000	
Renewal Reporting setting enabled → enabled Report not changed	Filter ID before renewal	Omitted or 00000000	Report ID before renewal	
Renewal Reporting setting enabled → enabled Report changed	Filter ID before renewal	Combination of the patrol lamp ID, mail policy ID, or action policy ID	Omitted, 00000000, or report ID before renewal	The report ID before renewal is deleted.
Renewal Reporting setting enabled → disabled	Filter ID before renewal	Omitted or 00000000	Omitted or 00000000	The report ID before renewal is deleted.
Deleted Reporting setting disabled	-	-	-	
Deleted Report setting is enabled	-	-	-	The report ID is deleted.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	A filter has been set successfully.
400	Bad Request	Parameter error
404	Not Found	The agent name is not specified. The agent does not exist. The manager does not exist. The filter ID does not exist. The report (mail policy) does not exist.

HTTP status code	Meaning	Description
409	Conflict	More than one resource exists, and it cannot be specified uniquely. * Occurs if ManagerName is omitted. The filter settings conflict with each other.
500	Internal Server Error	Internal server error Parameter error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
FilterID	string[]	Filter ID array	Eight-digit hexadecimal character string that uniquely identifies the filter definition in the agent
Manager	object	Manager object	-
Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name
Manager.ErrorMessage	string	Error message	-
Manager.Status	number	Communication error code	-
Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version : 1.0
 - Newly added

8. JSON example

[Request]

```

PUT /umf/fw/sysmgr/messageview/filters/AGENT01 HTTP/1.1
Host: ClientHost
Date: Wed, 20 Apr 2016 00:00:00 GMT
Authorization: SharedKeyLite ZIrgoOV5r1JOJwt3/M6e3M9PIDRntc37o375njmXo
Pk=:X+HnXjAP9jXuD/nz5khRVDMggIY5aR0wmjGCK0bBnr4=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 917

{
  "Filter": [
    {
      "FilterID": "00000000",
      "FilterName": "FilterName1",
      "CategoryNot": 0,
      "Category": "System",
      "CategoryOr": 1
    }
  ]
}
  
```

```

    "ApplicationNot":0,
    "Application":"tpmsg",
    "ObjectNot":0,
    "Object":"",
    "MessageIDNot":0,
    "MessageID":"00000000",
    "MessageTextNot":0,
    "MessageText":"This is test message",
    "SeverityNot":0,
    "Severity":0,
    "SelPos": [
        {
            "Type":0,
            "Position":1,
            "CompareType":0,
            "Value":"Value1"
        }
    ],
    "SelKey": [
        {
            "Type":0,
            "Key":"Key1",
            "CompareType":0,
            "Value":"Value1"
        }
    ],
    "OverWriteSeverity":0,
    "DisplayPosition":1,
    "HelpApplication":"",
    "HelpDirectory":"",
    "HelpOption":"",
    "Relation1":1,
    "Relation1Def":{
        "DisplayText":"relation1",
        "Application":"relation1.exe",
        "Directory":"",
        "Option":""
    },
    "Relation2":0,
    "Report":0
}
],
"Manager": {
    "Name": "mco-MoM"
}
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8

```

```

Content-Length: 152
Date: Wed, 20 Apr 2016 00:31:47 GMT

{
    "FilterID" : [
        "5716d87d"
    ],
    "Manager" : {
        "Name" : "mco-MoM",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : "200 OK"
    }
}

```

4.14.3 Obtaining messages (search)

1. Process overview

Obtain (search) messages under the specified search conditions.

Messages are searched under the AND condition if the search conditions specified in parameters are combined.

The obtained messages are sorted in reverse chronological order of reception date if the search direction is set to 0 or 1, while they are sorted in chronological order of reception date if the search direction is set to 2.

2. HTTP method

POST

3. URL

/umf/fw/sysmgr/messageview/messages

4. Parameters

Parameter	Data type	Description	Omission	Valid value
MessageCnt	number	Maximum number of obtained messages		Specify a value within the range of 1 to 1000. The default is 100.
ConfirmStatus	number	Messages confirmed or not confirmed to be searched		0: All messages 1: Messages not confirmed 2: Message confirmed The default is 1.
Direction	number	Search direction		0: Search the latest messages. 1: Search the messages from the source to the past. 2: Search the messages from the source to the future. The default is 0.

Parameter	Data type	Description	Omission	Valid value
BaseReceiveDate	string	A message to be the search source (reception date)	Cannot be omitted if Direction is set to 1 or 2.	<p>yyyy/mm/dd format Specify a pair for BaseReceiveDate and BaseMessageNo. Specify yyyy/mm/dd value between 1971/01/01 and 2036/12/31. The date information is based on the manager time zone.</p>
BaseMessageNo	number	A message to be the search source (message no.)	Cannot be omitted if Direction is set to 1 or 2.	<p>0 to 999999999, -1 Specify a pair for BaseReceiveDate and BaseMessageNo. The source message can be obtained (searched) as well. If the last message number on the previous day is unknown when searching messages toward the past, set the reception date to the previous day and the message number to -1. When searching newly created messages toward the future after obtaining the latest message (Direction = 0), set the maximum messages number + 1 on obtaining the latest message.</p>
TimeZone	string	Time zone		<p>Specify the time zones of the start creation date/time (StartCreateDate), end creation date/time (EndCreateDate), start reception date/time (StartReceiveDate), and end reception date/time (EndReceiveDate) in the search conditions, and specify the time zones of the creation date/time (Message[n].CreateDateTime) and reception date/time (Message[n].ReceiveDateTime) of the messages to be obtained.</p> <ul style="list-style-type: none"> - <Time zone ID>, <DST>format - ±hh:mm format or Z specification (UTC) <p>Set the time zone of the manager in <Time zone ID>, <DST> format in the event of omitting.</p> <p>Example: Specify "86,0" to convert into the time zone of Tokyo.</p>

Parameter	Data type	Description	Omission	Valid value
				*See " Time zone (page 440) ".
ResultDateTimeFormat	number	Obtaining date/time format		<p>Specify the date/time format when converting the creation date/time (Message[n].CreateDateTime) and reception date/time (Message[n].ReceiveDateTime) of the message to be obtained into the specified time zone and outputting them.</p> <p>0: "yyyy/mm/dd hh:mm:ss zzz" format 1: "YYYY-MMDDThh:mm:ssTZD" format (ISO8601 expansion format) 2: "YYYY-MMDDThh:mm:ssTZD" format (Z description of UTC in ISO8601 expansion format)</p> <p>The default is 0.</p>
ConditionFlag	number	Search mode		<p>1: Regular expression 2: Wild card</p> <p>The default is 2.</p>
StartCreateDate	string	Start creation date/time		<p>Specify the date/time in "yyyy/mm/dd" or "yyyy/mm/dd hh:mm:ss" format.</p> <p>The yyyy/mm/dd format is equivalent to yyyy/mm/dd 00:00:00.</p> <p>This is not specified as the search condition in the event of omitting.</p> <p>Specify yyyy/mm/dd value between 1971/01/01 and 2036/12/31.</p> <p>The date/time information is the time zone specified in the time zone (TimeZone) of the search condition.</p> <p>The start creation date/time must be equal to or earlier than the end creation date/time or earlier.</p>
EndCreateDate	string	End creation date/time		<p>Specify the date/time in "yyyy/mm/dd" or "yyyy/mm/dd hh:mm:ss" format.</p> <p>The yyyy/mm/dd format is equivalent to yyyy/mm/dd 11:59:59 PM.</p>

Parameter	Data type	Description	Omission	Valid value
				<p>This is not specified as the search condition in the event of omitting.</p> <p>Specify yyyy/mm/dd value between 1971/01/01 and 2036/12/31.</p> <p>The date/time information is the time zone specified in the time zone (TimeZone) of the search condition.</p> <p>The start creation date/time must be equal to or earlier than the end creation date/time or earlier.</p>
StartReceiveDate	string	Start reception date/time		<p>Specify the date/time in "yyyy/mm/dd" or "yyyy/mm/dd hh:mm:ss" format.</p> <p>The yyyy/mm/dd format is equivalent to yyyy/mm/dd 00:00:00.</p> <p>This is not specified as the search condition in the event of omitting.</p> <p>Specify yyyy/mm/dd value between 1971/01/01 and 2036/12/31.</p> <p>The date/time information is the time zone specified in the time zone (TimeZone) of the search condition.</p>
EndReceiveDate	string	End reception date/time		<p>Specify the date/time in "yyyy/mm/dd" or "yyyy/mm/dd hh:mm:ss" format.</p> <p>The yyyy/mm/dd format is equivalent to yyyy/mm/dd 11:59:59 PM.</p> <p>This is not specified as the search condition in the event of omitting.</p> <p>Specify yyyy/mm/dd value between 1971/01/01 and 2036/12/31.</p> <p>The date/time information is the time zone specified in the time zone (TimeZone) of the search condition.</p> <p>The start reception date/time must be equal to or earlier than the end reception date/time.</p>
Severity	number[]	Severity		256 to 287, 512 to 543

Parameter	Data type	Description	Omission	Valid value
				This is not specified as the search condition in the event of omitting.
Mark	number[]	Mark		0, 768 to 895 This is not specified as the search condition in the event of omitting. 0 means "No mark".
Node	string	Node name		Up to 128 characters This is not specified as the search condition in the event of omitting. Specify the search character string according to the search mode. Spaces before and after the value cannot be trimmed. This cannot be specified if NodeList is specified.
NodeList	string[]	Node name list		Up to 256 characters This is not specified as the search condition in the event of omitting. This is not specified as the search condition in the event of omitting. Spaces before and after the value cannot be trimmed. This cannot be specified if Node is specified.
Category	string	Category name		Up to 128 characters This is not specified as the search condition in the event of omitting. Specify the search character string according to the search mode. Spaces before and after the value cannot be trimmed.
Application	string	Application name		Up to 128 characters This is not specified as the search condition in the event of omitting. Specify the search character string according to the search mode. Spaces before and after the value cannot be trimmed.
Object	string	Object name		Up to 128 characters

Parameter	Data type	Description	Omission	Valid value
				This is not specified as the search condition in the event of omitting. Specify the search character string according to the search mode. Spaces before and after the value cannot be trimmed.
MessageID	string	Message ID		Up to 128 characters This is not specified as the search condition in the event of omitting. Specify the search character string according to the search mode. Spaces before and after the value cannot be trimmed.
MessageText	string	Message text		Up to 1024 characters This is not specified as the search condition in the event of omitting. Specify the search character string according to the search mode. Spaces before and after the value cannot be trimmed.
Manager	object	Manager object		-
Manager.Name	string	Manager name		Name of the manager in which the agent exists, MoM name, or RM name

"In the event of omitting" means omitting of parameter keys.

A parameter error occurs if the parameter key is specified but null is specified as the value.

Omit the parameter key itself in the event of omitting.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The message has been obtained (searched) successfully.
206	Partial Content	Although the manager name was not specified when more than one manager exists, a request has been issued successfully in one manager.
400	Bad Request	Parameter error
404	Not Found	The manager does not exist.
500	Internal Server Error	Internal server error Parameter error

6. Response

Parameter	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Message	object[]	Object where messages are stored	-
Message[n].ContiuFlag	boolean	Continuous flag Indicates that the maximum number of messages could not be obtained. For messages returned from the same manager, the same information is stored.	false: Not continuous true: Continuous
Message[n].BaseReceiveDate	string	Reception date/time to be the next source For messages returned from the same manager, the same information is stored.	yyyy/mm/dd format The message is returned only if ContinueFlag is set to true. The date information is based on the manager time zone.
Message[n].BaseMessageNo	number	A message to be the next source For messages returned from the same manager, the same information is stored.	0~999999999 The message is returned only if ContinueFlag is set to true.
Message[n].MessageNo	number	Message number	0 to 999999999
Message[n].FilterID	string	Filter ID The filter ID may not exist in the filter setting obtained in the filter obtaining API. In this case, the message	Eight-digit hexadecimal number

Parameter	Data type	Description	Valid value
		of the target host that is not related to the filter setting or the filter is deleted.	
Message[n].ConfirmStatus	boolean	Confirmation condition	false: Not confirmed. true: Confirmed.
Message[n].Description	string	Message overview Store the results of replacement of the character string in the filter name.	Up to 2000 characters If more than 2000 characters are replaced, up to 2000 characters are returned. * See " Replacement character string (page 438) ".
Message[n].Severity	number	Severity	256 to 287, 512 to 543 * See " Severity (page 437) ".
Message[n].Mark	number	Mark	0, 768 to 895 0 is returned in case of no mark. * See " Mark (page 438) ".
Message[n].CreateDate	string	Occurrence date	yyyy/mm/dd format The date information is based on the manager time zone.
Message[n].CreateTime	string	Occurrence time	hh:mm:ss format The date information is based on the manager time zone.
Message[n].ReceiveDate	string	Reception date	yyyy/mm/dd format The date information is based on the manager time zone.
Message[n].ReceiveTime	string	Reception time	hh:mm:ss format The date information is based on the manager time zone.
Message[n].CreateDateTime	string	Occurrence date/time (specifying the time zone)	Output the creation date/time according to the time zone specified in TimeZone when a request is issued. - If the obtaining date/time format is set to 0 yyyy/mm/dd hh:mm:ss zzz format Example: 2015/12/10 09:47:00 +09:00 - If the obtaining date/time format is set to 1 YYYY-MMDDTThh:mm:ssTZD format Example: 2015-12-10T09:47:00+09:00 - If the obtaining date/time format is set to 2 "YYYY-MMDDTThh:mm:ssTZD format (Z description of UTC) Example: 2015-12-10T00:47:00Z

Parameter	Data type	Description	Valid value
Message[n].ReceiveDateTime	string	Reception date/time (specifying the time zone)	<p>Output the reception date/time according to the time zone specified in TimeZone when a request is issued.</p> <ul style="list-style-type: none"> - If the obtaining date/time format is set to 0 yyyy/mm/dd hh:mm:ss zzz format Example: 2015/12/10 09:47:00 +09:00 - If the obtaining date/time format is set to 1 YYYY-MMDDThh:mm:ssTZD format Example: 2015-12-10T09:47:00+09:00 - If the obtaining date/time format is set to 2 "YYYY-MMDDThh:mm:ssTZD format (Z description of UTC) Example: 2015-12-10T00:47:00Z
Message[n].Node	string	Node	Up to 256 characters
Message[n].Category	string	Category	Up to 32 characters
Message[n].Application	string	Application	Up to 32 characters
Message[n].Object	string	Object	Up to 32 characters
Message[n].MessageID	string	Message ID	Up to 32 characters
Message[n].MessageText	string	Message text	Up to 1024 characters
Message[n].Report	number	Report result	<ul style="list-style-type: none"> 0: No result 1: Reporting 2: Abnormal termination 3: Normal termination
Message[n].ReportActionID	string	Report ID	Eight-digit hexadecimal number
Message[n].ReportActionIDStr	string	Report ID character string	Up to 8 characters
Message[n].CommentFlag	boolean	Existence of comments	<ul style="list-style-type: none"> false: None true: Exists
Message[n].Manager	object	Manager object	-
Message[n].Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name
Message[n].Manager.ErrorMessage	string	Error message	-
Message[n].Manager.Status	number	Communication error code	-
Message[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version : 1.0
 - Newly added

8. JSON example

[Request]

```

POST /umf/fw/sysmgr/messageview/messages HTTP/1.1
Host: ClientHost
Date: Wed, 20 Apr 2016 00:00:00 GMT
Authorization: SharedKeyLite ZIrgoOV5r1JOJwt3/M6e3M9PIDRntc37o375njmXo
Pk=:X+HnXjAP9jXuD/nz5khRVDMggIY5aR0wmjGCK0bBnr4=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 215

{
    "MessageCnt":1,
    "ConfirmStatus":1,
    "Direction":1,
    "BaseReceiveDate":"2016/04/20",
    "BaseMessageNo":0,
    "TimeZone":"86,0",
    "ConditionFlag":2,
    "Node":"AGENT01",
    "Manager":{
        "Name":"mco-MoM"
    }
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 857
Date: Wed, 20 Apr 2016 01:30:44 GMT

{
    "Message" : [
        {
            "Node" : "AGENT01",
            "ReceiveTime" : "11:15:27",
            "Application" : "tpmsg",
            "ReceiveDate" : "2016/04/20",
            "Report" : 0,
            "ContinueFlag" : false,
            "FilterID" : "5715d97e",
            "ReportActionID" : "00000000",
            "CreateTime" : "11:15:27",
            "CreateDate" : "2016/04/20",
            "Severity" : 264,
            "CommentFlag" : false,
            "ReportActionIDStr" : "",
            "MessageID" : "00000001",
            "ReceiveDateTime" : "2016/04/20 11:15:27 +09:00",
            "ReportCount" : 0
        }
    ]
}

```

```

        "Mark" : 0,
        "Object" : "0000",
        "ConfirmStatus" : false,
        "Category" : "Application",
        "CreateDateTime" : "2016/04/20 11:15:27 +09:00",
        "MessageText" : "This is test message.",
        "Description" : "",
        "MessageNo" : 0,
        "Manager" : {
            "Name" : "mco-MoM",
            "Status" : 200,
            "StatusCode" : 200,
            "ErrorMessage" : "200 OK"
        }
    }
]
}

```

4.14.4 Confirmation/Cancellation

1. Process overview

Confirm or cancel the message of the specified agent.

2. HTTP method

PUT

3. URL

/umf/fw/sysmgr/messageview/confirm

4. Parameters

Parameters	Data type	Description	Omission	Valid value
(Root)	object	Root object type	Not possible	-
HostName	string	Agent name	Not possible	Character string up to 256 characters that identifies the agent uniquely
ReceiveDate	string	Reception date	Not possible	yyyy/mm/dd format Specify yyyy/mm/dd value between 1971/01/01 and 2036/12/31. The date information is based on the manager time zone.
MessageNo	number[]	Message number	Not possible	Values in the range of 0 to 99999999
Confirm	boolean	Confirmation/ Cancellation	Not possible	true: Confirmation false: Cancellation
Manager	object	Manager object	If an agent name that does not exist in the topology is specified, this cannot be omitted.	-

Parameters	Data type	Description	Omission	Valid value
Manager.Name	string	Manager name	If an agent name that does not exist in the topology is specified, this cannot be omitted.	Name of the manager in which the agent exists, MoM name, or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Confirmation/Cancellation has been performed successfully.
206	Partial Content	Although the manager name was not specified when more than one manager exists, a request has been issued successfully in one manager.
400	Bad Request	Parameter error The agent name is not specified. The reception date is not specified. The message no. is not specified. Confirmation/cancellation is not specified. The manager name is not specified.
404	Not Found	The agent does not exist. The manager does not exist. The message does not exist.
500	Internal Server Error	Internal server error Parameter error

6. Response

Parameters	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Confirm	object[]	Object with the results of confirmation/cancellation	-
Confirm[n].HostName	string	Agent name	Character string that identifies the agent uniquely Up to 256 characters
Confirm[n].ReceiveDate	string	Reception date	yyyy/mm/dd format The date information is based on the manager time zone.
Confirm[n].MessageNo	number[]	Message number	Values in the range of 0 to 99999999
Confirm[n].Confirm	boolean	Confirmation /Cancellation	true: Confirmation false: Cancellation
Confirm[n]Manager	object	Manager object	-
Confirm[n]Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name

Parameters	Data type	Description	Valid value
Confirm[n]Manager.ErrorMessage	string	Error message	-
Confirm[n]Manager.Status	number	Communication error code	-
Confirm[n]Manager.StatusCode	number	Internal error code	-

7. Change history

- X-SYSMGR-API-Version: 1.0

- Newly added

8. JSON Example

[Request]

```

PUT /umf/fw/sysmgr/messageview/confirm HTTP/1.1
Host: ClientHost
Date: Wed, 20 Apr 2016 00:00:00 GMT
Authorization: SharedKeyLite ZIrgoOV5r1JOJwt3/M6e3M9PIDRntc37o375njmXo
Pk=:X+HnXjAP9jXuD/nz5khRVDMggIY5aR0wmjGCK0bBnr4=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 146

{
    "HostName": "AGENT01",
    "ReceiveDate": "2016/04/20",
    "MessageNo": [
        0,
        1
    ],
    "Confirm": true,
    "Manager": {
        "Name": "mco-MoM"
    }
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 279
Date: Wed, 20 Apr 2016 01:40:21 GMT

{
    "Confirm" : [
        {

```

```

        "HostName" : "AGENT01",
        "ReceiveDate" : "2016/04/20",
        "Confirm" : true,
        "MessageNo" : [
            0, 1
        ],
        "Manager" : {
            "Name" : "mco-MoM",
            "Status" : 200,
            "StatusCode" : 200,
            "ErrorMessage" : "200 OK"
        }
    }
}

```

4.14.5 Obtaining a comment

1. Process overview

Obtain the comment of the specified agent.

If no comment is added, an empty string is returned.

2. HTTP method

GET

3. URL

```
/umf/fw/sysmgr/messageview/comment?HostName=HostName&ReceiveDate=ReceiveDate&MessageNo=MessageNo&ManagerName=ManagerName
```

Specify the target agent name in `HostName` by using up to 256 characters.

The agent name to be specified in `HostName` can be checked in the agent list or "Obtaining messages (search)".

`HostName` cannot be omitted.

Specify the reception date of the target comment in `ReceiveDate` in yyyy/mm/dd format.

The reception date to be specified in `ReceiveDate` can be checked in "Obtaining messages (search)".

`ReceiveDate` cannot be omitted.

Specify the number of target messages in `ManagerNo` within the range of 0 to 999999999.

The reception date to be specified in `ManagerNo` can be checked in "Obtaining messages (search)".

`ManagerNo` cannot be omitted.

For an environment where more than one manager exists, specify the target manager name as `ManagerName`.

If an agent name that does not exist in the topology is specified, specify the manager name obtained in "Obtaining messages (search)".

If an agent name that does not exist in the topology is specified, `ManagerName` cannot be omitted.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	A comment has been obtained successfully.
206	Partial Content	Although the manager name was not specified when more than one manager exists, a request has been issued successfully in one manager.
400	Bad Request	Parameter error The reception date is not specified. The message number is not specified. The manager name is not specified.
404	Not Found	The agent does not exist. The manager does not exist. The message does not exist.
500	Internal Server Error	Internal server error Parameter error The agent name is not specified.

6. Response

Parameters	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Comment	object[]	Object with the results of obtaining comments	-
Comment[n].HostName	string	Agent name	Character string that identifies the agent uniquely Up to 256 characters
Comment[n].ReceiveDate	string	Reception date	yyyy/mm/dd format Specify yyyy/mm/dd value between 1971/01/01 and 2036/12/31. The date information is based on the manager time zone.
Comment[n].MessageNo	number	Message number	0 to 999999999
Comment[n].Comment	string	Comment	Up to 1024 characters Line feed characters can be included.
Comment[n].Manager	object	Manager object	-
Comment[n].Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name

7. Change history

- X-SYSMGR-API-Version: 1.0

- Newly added

8. JSON Example

[Request]

```
GET /umf/fw/sysmgr/messageview/comment?HostName=AGENT01&ReceiveDate=20
16/04/20&MessageNo=1&ManagerName=mco-MoM HTTP/1.1
Host: ClientHost
Date: Wed, 20 Apr 2016 00:00:00 GMT
Authorization: SharedKeyLite ZIrgoOV5r1JOJwt3/M6e3M9PIDRntc37o375njmXo
Pk=:X+HnXjAP9jXuD/nz5khRVDMggIY5aR0wmjGCK0bBnr4=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 0
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 276
Date: Wed, 20 Apr 2016 02:06:56 GMT

{
    "Comment" : [
        {
            "HostName" : "AGENT01",
            "ReceiveDate" : "2016/04/20",
            "Comment" : "This is Comment",
            "MessageNo" : 1,
            "Manager" : {
                "Name" : "mco-MoM",
                "Status" : 200,
                "StatusCode" : 200,
                "ErrorMessage" : "200 OK"
            }
        }
    ]
}
```

4.14.6 Adding a comment

1. Process overview

Add the comment to the specified agent.

2. HTTP method

PUT

3. URL

/umf/fw/sysmgr/messageview/comment

4. Parameters

Parameter	Data type	Description	Omission	Valid value
(Root)	object	Root object shape	Not possible	-
HostName	string	Agent name	Not possible	Character string up to 256 characters that identifies the agent uniquely
ReceiveDate	string	Reception date	Not possible	yyyy/mm/dd format Specify yyyy/mm/dd value between 1971/01/01 and 2036/12/31. The date information is based on the manager time zone.
MessageNo	number	Message number	Not possible	0 to 99999999
Comment	string	Comment	Not possible	0 to 1024 characters Line feed characters can be included. Spaces in front and behind the value cannot be trimmed.
Manager	object	Manager object	If an agent name that does not exist in the topology is specified, this cannot be omitted.	-
Manager.Name	string	Manager name	If an agent name that does not exist in the topology is specified, this cannot be omitted.	Name of the manager in which the agent exists, MoM name, or RM name

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	A comment has been added successfully.
206	Partial Content	Although the manager name was not specified when more than one manager exists, a request has been issued successfully in one manager.
400	Bad Request	Parameter error The agent name is not specified. The reception date is not specified. The message is not specified. The comment is not specified. The manager name is not specified.
404	Not Found	The agent does not exist. The manager does not exist.

HTTP status code	Meaning	Description
		The message does not exist.
500	Internal Server Error	Internal server error Parameter error

6. Response

Parameters	Data type	Description	Valid value
(ROOT)	object	Root object type	-
Comment	object[]	Object with the results of adding comments	-
Comment[n].HostName	string	Agent name	Character string that identifies the agent uniquely Up to 256 characters
Comment[n].ReceiveDate	string	Reception date	yyyy/mm/dd format The date information is based on the manager time zone.
Comment[n].MessageNo	number	Message number	0 to 999999999
Comment[n].Comment	string	Comment	Up to 1024 characters Line feed characters can be included.
Comment[n].Manager	object	Manager object	-
Comment[n].Manager.Name	string	Manager name	Name of the manager in which the agent exists, MoM name, or RM name

7. Change history

- X-SYSMGR-API-Version: 1.0

- Newly added

8. JSON Example

[Request]

```
PUT /umf/fw/sysmgr/messageview/comment HTTP/1.1
Host: ClientHost
Date: Wed, 20 Apr 2016 00:00:00 GMT
Authorization: SharedKeyLite ZIrgoOV5r1JOJwt3/M6e3M9PIDRntc37o375njmXo
Pk=:X+HnXjAP9jXuD/nz5khRVDMggIY5aR0wmjGCK0bBnr4=
X-SYSMGR-API-Version: 1.0
Content-Type: application/json; charset=utf-8
Content-Length: 144

{
    "HostName": "AGENT01",
    "ReceiveDate": "2016/04/20",
    "MessageNo": 1,
```

```

    "Comment": "This is Comment",
    "Manager": {
        "Name": "mco-MoM"
    }
}

```

[Response]

```

HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 276
Date: Wed, 20 Apr 2016 01:55:40 GMT

{
    "Comment" : [
        {
            "HostName" : "AGENT01",
            "ReceiveDate" : "2016/04/20",
            "Comment" : "This is Comment",
            "MessageNo" : 1,
            "Manager" : {
                "Name" : "mco-MoM",
                "Status" : 200,
                "StatusCode" : 200,
                "ErrorMessage" : "200 OK"
            }
        }
    ]
}

```

4.14.7 Severity

- The severity is shown below.

The severity must be registered in advance when setting the options of the monitoring terminal.

Severity name (default)	Internal name	Severity ID
STOP	SEV_STOP	256
FATAL	SEV_FATAL	257
CRITICAL	SEV_CRITICAL	258
MAJOR	SEV_MAJOR	259
MINOR	SEV_MINOR	260
WARNING	SEV_WARNING	261
UNKNOWN	SEV_UNKNOWN	262
NOMESSAGE	SEV_NOMESSAGE	263
NORMAL	SEV_NORMAL	264

Severity name (default)	Internal name	Severity ID
PROCESSSTOP	SEV_PROCESSSTOP	265
SERVICESTOP	SEV_SERVICESTOP	266
PERFUPERROR	SEV_PERFUPERROR	267
PERFLOWERROR	SEV_PERFLOWERROR	268
HOSTEMPTY	SEV_HOSTEMPTY	269
PERFUPWARNING	SEV_PERFUPWARNING	270
PERFLOWWARNING	SEV_PERFLOWWARNING	271
PROCESSUNKNOWN	SEV_PROCESSUNKNOWN	272
SERVICEUNKNOWN	SEV_SERVICEUNKNOWN	273
PERFUNKNOWN	SEV_PERFUNKNOWN	274
PROCESSRUN	SEV_PROCESSRUN	275
SERVICERUN	SEV_SERVICERUN	276
PERFNORMAL	SEV_PERFNORMAL	277
HOSTNORMAL	SEV_HOSTNORMAL	278
PROCESSUPERROR	SEV_PROCESSUPERROR	279
FORCEEND	SEV_FORCEEND	280
DELAY	SEV_DELAY	281
CONDSTOP	SEV_CONDSTOP	282
EXECUTING	SEV_EXECUTING	283
NOTEXEC	SEV_NOTEXEC	284
CONFIRMATION	SEV_CONFIRMATION	285
UNMANAGED	SEV_UNMANAGED	286
(User severity*)	USER1 to USER32	512 to 543

* The severity ID of Usern (the user severity) is 511+n.

4.14.8 Mark

- The mark is shown below.

The mark must be registered in advance when setting the options of the monitoring terminal.

Mark name (default)	Internal name	Mark ID
Reporting	MARK1	768
Processing	MARK2	769
Processed	MARK3	770
(User mark *)	MARK4 to MARK128	771 to 895

* The mark ID of the user mark Usern is 511+n.

4.14.9 Replacement character string

- The replacement character strings are shown below.

The replacement character strings set for the option information of the help information, related information 1, and related information 2 are available only in the monitoring terminal.

Replacement character string	Description	Remarks
\$SEVERITY\$	Replaced with the severity of a message.	
\$GENERATEDDATE\$	Replaced with the message creation date.	
\$GENERATEDTIME\$	Replaced with the message creation time.	
\$RECEIVEDATE\$	Replaced with the message reception date.	
\$RECEIVETIME\$	Replaced with the message reception time.	
\$NODE\$	Replaced with the node name of a message.	
\$APPLICATION\$	Replaced with the application name of a message.	
\$OBJECT\$	Replaced with the object name of a message.	
\$MESSAGEID\$	Replaced with the message ID of a message.	
\$MESSAGETEXT\$	Replaced with the message text of a message. Before replacing the text, replace the double quotation marks ("") with single quotation marks ('') in the message text, and replace the line feed characters with spaces in the message text.	
\$MARK\$	Replaced with the marks of a message.	This can be specified only for the following options. Help application Related information 1 Related information 2
\$REPEXP("<Start key value>", "<End key value>")	Select the contents to be replaced from the message text, and specify them. Specify the start key value and the end key value to replace the text with the contents starting from a character next to the start key value to a character before the end key value. Start key value: Specify the value before the character string to be replaced in regular expression format. End key value: Specify the value next to the character string to be replaced in regular expression format. The start key value and end key value must be enclosed in double quotation marks (""). If there is no corresponding character string in the message, it is replaced with ("<Start key value>", "<End key value>"). Before replacing the text, replace the double quotation marks ("") with single quotation marks ('') in the message text, and replace the line feed characters with spaces in the message text. Example: \$REPEXP("\(", "\)")	This can be specified only for the following options. Help application Related information 1 Related information 2
\$REPPOS(<Position>, <Character string length>)	Specify the position of the contents to be replaced in the message text. Position: Specify the replacement start position in the message text with the number of characters. Specify a value within the range of 0 to 1023.	This can be specified only for the following options. Help application Related information 1 Related information 2

Replacement character string	Description	Remarks
	<p>Character string length; Specify the length of the character string to be replaced.</p> <p>Specify a value within the range of 1 to 1024.</p> <p>Specify a value so that the total of the values specified as a position and as a length does not exceed 1024.</p> <p>If there is no character string within the specified range, the value is replaced with an empty string.</p> <p>If characters other than the numerical value are specified as the position, the specified character is regarded as 0.</p> <p>If characters other than the numerical value are specified as the character string length, the specified character is replaced with an empty string.</p> <p>Before replacing the text, replace the double quotation marks ("") with single quotation marks ('') in the message text, and replace line feed characters with spaces in the message text.</p> <p>Example: \$REPPOS(5,8)</p>	
\$REPKEY("<Key value>")	<p>Replace with the right side value (character string after "=") corresponding to the key value in the message text.</p> <p>Key value: Specify the key in the message text.</p> <p>This must be enclosed in double quotation marks.</p> <p>If there is no character string corresponding to the key value specified in the message text, the value is replaced with a space.</p> <p>"=" must be provided between the character string corresponding to the key value specified in the message text and the character string to be replaced.</p> <p>The character string to be replaced in the message text must be enclosed in double quotation marks (""), or a closing bracket ">" or one-byte space must be provided next to the character string to be replaced.</p> <p>Note that spaces between the key value, "=", and the character string to be replaced are ignored.</p> <p>Before replacing the text, replace the double quotation marks ("") with single quotation marks ('') in the message text, and replace line feed characters with spaces in the message text.</p> <p>Example: \$REPKEY("ErrorNumber")</p> <p>Message text: (ErrorNumber=1)</p>	<p>This can be specified only for the following options.</p> <p>Help application</p> <p>Related information 1</p> <p>Related information 2</p>

4.14.10 Time zone

- The time zones are shown below.

Time zone ID	DST	Time zone name
1	0	(GMT+04:30) Kabul
2	1	(GMT-09:00) Alaska
3	0	(GMT+03:00) Kuwait, Riyadh

Time zone ID	DST	Time zone name
4	0	(GMT+04:00) Abu Dhabi, Muscat
5	0	(GMT+03:00) Baghdad
6	0	(GMT-03:00) Buenos Aires
7	1	(GMT+04:00) 2.Yerevan
8	1	(GMT-04:00) Atlantic Standard Time (Canada)
9	0	(GMT+09:30) Darwin
10	1	(GMT+10:00) Canberra, Melbourne, Sydney
11	1	(GMT+04:00) Baku
12	1	(GMT-01:00) Azores
13	0	(GMT+06:00) Dhaka
14	0	(GMT-06:00) Saskatchewan
15	0	(GMT-01:00) Cape Verde Islands
16	0	(GMT+04:00) Caucasus Standard Time
17	1	(GMT+09:30) Adelaide
18	0	(GMT-06:00) Central America
19	0	(GMT+06:00) Astana
20	1	(GMT-04:00) Cuiaba
21	1	(GMT+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague
22	1	(GMT+01:00) Sarajevo, Skopje, Warsaw, Zagreb
23	0	(GMT+11:00) Solomon Islands, New Caledonia
24	1	(GMT-06:00) Central Standard Time (US and Canada)
25	1	(GMT-06:00) Guadalajara, Mexico City, Monterrey - New
26	0	(GMT+08:00) Beijing, Chongqing, Hong Kong SAR, Urumqi
27	0	(GMT-12:00) International Date Line West
28	0	(GMT+03:00) Nairobi
29	0	(GMT+10:00) Brisbane
30	1	(GMT+02:00) Minsk
31	1	(GMT-03:00) Brasilia
32	1	(GMT-05:00) Eastern Standard Time (US and Canada)
33	0	(GMT+02:00) Cairo
34	0	(GMT+06:00) Yekaterinburg
35	1	(GMT+12:00) Fiji Islands
36	1	(GMT+02:00) Helsinki, Kiev, Riga, Skopje, Sofia, Tallinn, Vilnius
37	0	(GMT+04:00) Tbilisi
38	1	(GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London
39	1	(GMT-03:00) Greenland
40	0	(GMT) Monrovia, Reykjavik

Time zone ID	DST	Time zone name
41	1	(GMT+02:00) Athens, Bucharest
42	0	(GMT-10:00) Hawaii
43	0	(GMT+05:30) Chennai, Kolkata, Mumbai, New Delhi
44	1	(GMT+03:30) Tehran
45	1	(GMT+02:00) Jerusalem
46	1	(GMT+02:00) Amman
47	0	(GMT+03:00) Kaliningrad
48	1	(GMT+12:00) Petropavlovsk-Kamchatsky - Discarded
49	0	(GMT+09:00) Seoul
50	0	(GMT+12:00) Magadan
51	0	(GMT+04:00) Port Louis
52	1	(GMT-06:00) Guadalajara, Mexico City, Monterrey - Old
53	1	(GMT-07:00) Chihuahua, La Paz, Mazatlan - Old
54	1	(GMT-02:00) Mid-Atlantic
55	1	(GMT+02:00) Beirut
56	1	(GMT-03:00) Montevideo
57	1	(GMT) Casablanca
58	1	(GMT-07:00) Mountain Standard Time (US and Canada)
59	1	(GMT-07:00) Chihuahua, La Paz, Mazatlan - New
60	0	(GMT+06:30) Yangon (Rangoon)
61	0	(GMT+07:00) Novosibirsk
62	1	(GMT+01:00) Windhoek
63	0	(GMT+05:45) Kathmandu
64	1	(GMT+12:00) Auckland, Wellington
65	1	(GMT-03:30) Newfoundland
66	0	(GMT+09:00) Irkutsk
67	0	(GMT+08:00) Krasnoyarsk
68	1	(GMT-04:00) Santiago
69	1	(GMT-08:00) Pacific Standard Time (US and Canada)
70	1	(GMT-08:00) Baja California
71	0	(GMT+05:00) Islamabad, Karachi
72	1	(GMT-04:00) Asuncion
73	1	(GMT+01:00) Brussels, Copenhagen, Madrid, Paris
74	0	(GMT+04:00) Moscow, St. Petersburg, Volgograd
75	0	(GMT-03:00) Cayenne, Fortaleza
76	0	(GMT-05:00) Bogota, Lima, Quito
77	0	(GMT-04:00) Georgetown, La Paz, Manaus, San Juan
78	1	(GMT-11:00) Samoa

Time zone ID	DST	Time zone name
79	0	(GMT+07:00) Bangkok, Hanoi, Jakarta
80	0	(GMT+08:00) Kuala Lumpur, Singapore
81	0	(GMT+02:00) Harare, Pretoria
82	0	(GMT+05:30) Sri Jayawar denepura Kotte
83	1	(GMT+02:00) Damascus
84	0	(GMT+08:00) Taipei
85	1	(GMT+10:00) Hobart
86	0	(GMT+09:00) Osaka, Sapporo, Tokyo
87	0	(GMT+13:00) Nuku'alofa
88	1	(GMT+02:00) Istanbul
89	0	(GMT+08:00) Ulaanbaatar
90	1	(GMT-05:00) Indiana (East)
91	0	(GMT-07:00) Arizona
92	0	(GMT) Universal Time Coordinated
93	0	(GMT+12:00) Universal Time Coordinated+12
94	0	(GMT+12:00) Universal Time Coordinated-02
95	0	(GMT+12:00) Universal Time Coordinated-11
96	0	(GMT-04:30) Caracas
97	0	(GMT+11:00) Vladivostok
98	0	(GMT+08:00) Perth
99	0	(GMT+01:00) West Central Africa
100	1	(GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
101	0	(GMT+05:00) Tashkent
102	0	(GMT+10:00) Guam, Port Moresby
103	0	(GMT+10:00) Yakutsk

4.15 Application Management

4.15.1 Specifications of the monitored host API

4.15.1.1 Obtaining a list of monitored hosts

1. Process overview

This is used to acquire a list of monitored hosts.

2. HTTP method

GET

3. URL

```
/umf/fw/appnavi/agents/?ManagerName=ManagerName&AppID=AppID[&Type=Type]
```

Specify the target manager name in **ManagerName**.

Specify the following values for **AppID** and **Type**.

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 0: ALL 1: Oracle monitoring 3: SQL Server monitoring 6: PostgreSQL monitoring 8: WebOTX monitoring 9: Apache monitoring 13: Java application monitoring
Type	number	Optional	Status of the monitored host 0: ALL 1: Enabled 2: Disabled If this property is omitted, "0: All" is the default.

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.HostInfo	object[]	Information of the monitored host
ResultData.HostInfo[n].AgentNodeID	string	Agent node ID Hexadecimal
ResultData.HostInfo[n].AppID	number	Application ID 1: Oracle monitoring 3: SQL Server monitoring 6: PostgreSQL monitoring 8: WebOTX monitoring 9: Apache monitoring 13: Java application monitoring
ResultData.HostInfo[n].Type	number	Status of the monitored host 1: Enabled 2: Disabled

Parameter	Type	Description
ResultData.HostInfo[n].AgentName	string	Monitored host name
ResultData.HostInfo[n].OSType	number	OS type 1: Windows 2: Linux 3: HP-UX 4: Solaris 8: AIX

7. Change history

- X-APPNAVI-API-Version : 1.0.0

- Newly added

8. JSON example

[Request]

```
GET /umf/fw/appnavi/agents/ HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimil1aMZ170=
```

[Response]

```
{
  "ResultData" : {
    "HostInfo" : [
      {
        "AgentNodeID" : "5735578e",
        "AppID" : 1,
        "Type" : 2,
        "AgentName" : "AppNavi-Agent-A",
        "OSType" : 1
      },
      {
        "AgentNodeID" : "5735578f",
        "AppID" : 1,
        "Type" : 2,
        "AgentName" : "AppNavi-RemoteAgent-B",
        "OSType" : 1
      },
      {
        "AgentNodeID" : "57355790",
        "AppID" : 1,
        "Type" : 1,
        "AgentName" : "AppNavi-LogicalAgent-C",
        "OSType" : 1
      }
    ]
  }
}
```

```

        "AgentNodeID" : "57355791",
        "AppID" : 3,
        "Type" : 1,
        "AgentName" : "AppNavi-Agent-A",
        "OSType" : 1
    }
]
}
}

```

4.15.1.2 Obtaining monitored host information

1. Process overview

This is used information of the monitored host.

2. HTTP method

GET

3. URL

/umf/fw/appnavi/agents/**agent_nodeid**?ManagerName=**ManagerName**&AppID=**AppID**

Specify the target manager name in **ManagerName**.

For **agent_nodeid**, specify the agent node ID of the target host.

Specify the following values for **AppID**.

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring 3: SQL Server monitoring 6: PostgreSQL monitoring 8: WebOTX monitoring 9: Apache monitoring 13: Java application monitoring

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.AgentNodeID	string	Agent node ID

Parameter	Type	Description
		Hexadecimal
ResultData.AppID	number	Application ID 1: Oracle monitoring 3: SQL Server monitoring 6: PostgreSQL monitoring 8: WebOTX monitoring 9: Apache monitoring 13: Java application monitoring
ResultData.Type	number	Status of the monitored host 1: Enabled 2: Disabled
ResultData.AgentName	string	Monitored host name
ResultData.OSType	number	OS type 1: Windows 2: Linux 3: HP-UX 4: Solaris 8: AIX
ResultData.AgentType	number	Flag to indicate an agent, logical agent, or remote host 0: Agent 1: Logical agent 2: Remote host
ResultData.RemoteAgentName	string	Remote monitoring agent name (displayed only for a remote host)
ResultData.PublicHostName	string	Physical host name
ResultData.DllVersion	string	DLL version The specified DLL version is displayed. The DLL version cannot be specified when the application does not have multiple lists, or when the application have multiple lists but no instance was set.
ResultData.DllVersionList	string[]	DLL version list The DLL version list is set for the application that has multiple lists.

7. Change history

- X-APPNAVI-API-Version : 1.0.0
 - Newly added

8. JSON example

[Request]

```
GET /umf/fw/appnavi/agents/5735578e/ HTTP/1.0
Content-Type: application/json; charset=utf-8
```

```
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilaMZ170=
```

[Response]

```
{
    "ResultData" : {
        "AgentNodeID" : "5735578e",
        "AppID" : 1,
        "Type" : "Disable",
        "AgentName" : "AppNavi-Agent-A",
        "OSType" : 1,
        "AgentType" : 0,
        "RemoteAgentName" : "",
        "PublicHostName" : "AppNavi-Agent",
        "DllVersion" : "Oracle12c",
        "DllVersionList" : [
            "Oracle10g",
            "Oracle11g",
            "Oracle12c"
        ]
    }
}
```

4.15.1.3 API to enable/disable the monitored host

1. Process overview

This is used to enable a monitored host.

This API enables or disables the application of the target agent.

2. HTTP method

PUT

3. URL

/umf/fw/appnavi/agents/**agent_nodeid**/

For **agent_nodeid**, specify the target agent node ID.

4. Parameters

Property name	Data type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring 3: SQL Server monitoring 9: Apache monitoring 13:Java application monitoring
Type	number	Required	Status of monitored host 1: Enabled

Property name	Data type	Required/Optional	Description
			2: Disabled
Manager	object	Required	-
Manager.Name	string	Required	Manager name which manages the target resource

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success
204	No Content	Already enabled/disabled

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

Parameters	Data type	Description
ResultData	object	Request result
ResultData.AgentNodeID	string	Agent node ID Hexadecimal
ResultData.AppID	number	Application ID 1: Oracle monitoring 3: SQL Server monitoring 9: Apache monitoring 13:Java application monitoring
ResultData.Type	number	Status of monitored host 1: Enabled 2: Disabled

7. Change history

- X-APPNAVI-API-Version : 1.0.0

- Newly added

8. JSON Example

[Request]

```
GET /umf/fw/appnavi/agents/5735578e/ HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjs311K4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilaMZ170=

{
    "AppID" : 1,
    "Type" : 1,
    "Manager" : {
        "Name" : "Manager1"
    }
}
```

```
}
```

[Response]

None

4.15.2 Specifications of the monitoring middleware API

4.15.2.1 Obtaining a list of instances of the monitoring middleware

1. Process overview

This is used to acquire a list of monitored hosts.

2. HTTP method

```
GET
```

3. URL

```
/umf/fw/appnavi/agents/agent_nodeid/instances/?ManagerName=ManagerName&AppID=AppID
```

Specify the target manager name in **ManagerName**.

For **agent_nodeid**, specify the agent node ID of the target host.

Specify the following values for **AppID**.

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring 3: SQL Server monitoring 6: PostgreSQL monitoring 8: WebOTX monitoring 9: Apache monitoring 13: Java application monitoring

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

Oracle monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceInfo	object[]	Information of the instance
ResultData.InstanceInfo[n].InstanceNodeID	string	Instance node ID Hexadecimal
ResultData.InstanceInfo[n].InstanceName	string	Instance name

SQL Server monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceInfo	object[]	Information of the instance
ResultData.InstanceInfo[n].InstanceNodeID	string	Instance node ID Hexadecimal
ResultData.InstanceInfo[n].InstanceName	string	Instance name

PostgreSQL monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceInfo	object[]	Information of the instance
ResultData.InstanceInfo[n].InstanceNodeID	string	Instance node ID Hexadecimal
ResultData.InstanceInfo[n].PortNumber	number	Port number

WebOTX monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceInfo	object[]	Information of the instance
ResultData.InstanceInfo[n].InstanceNodeID	string	Instance node ID Hexadecimal
ResultData.InstanceInfo[n].DomainName	string	Domain name

Apache monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceInfo	object[]	Information of the instance
ResultData.InstanceInfo[n].InstanceNodeID	string	Instance node ID Hexadecimal

Parameter	Type	Description
ResultData.InstanceInfo[n].ServerID	string	Server identifier

Java application monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceInfo	object[]	Information of the instance
ResultData.InstanceInfo[n].InstanceNodeID	string	Instance node ID Hexadecimal
ResultData.InstanceInfo[n].InstanceID	string	Instance ID

7. Change history

- X-APPNAVI-API-Version : 1.0.0

- Newly added

8. JSON example

[Request]

```
GET /umf/fw/appnavi/agents/5735578e/instances/ HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilaMZ170=
```

[Response]

```
{
  "ResultData" : {
    "InstanceInfo" : [
      {
        "InstanceNodeID" : "573594ac" ,
        "InstnaceName" : "Oracle112-A"
      },
      {
        "InstanceNodeID" : "573594ad" ,
        "InstnaceName" : "Oracle112-B"
      }
    ]
  }
}
```

4.15.2.2 Obtaining information of the monitoring middleware

1. Process overview

This is used to acquire instance information of the monitoring middleware.

2. HTTP method

GET

3. URL

```
/umf/fw/appnavi/agents/agent_nodeid/instances/instance_nodeid?ManagerName=ManagerName&AppID=AppID
```

Specify the target manager name in **ManagerName**.

For **agent_nodeid**, specify the agent node ID of the target host.

For **instance_nodeid**, specify the instance node ID of the target host.

Specify the following values for **AppID**.

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring 3: SQL Server monitoring 6: PostgreSQL monitoring 8: WebOTX monitoring 9: Apache monitoring 13: Java application monitoring

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

Oracle monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceNodeID	string	Instance node ID Hexadecimal
ResultData.AppID	number	Application ID 1: Oracle monitoring
ResultData.AgentName	string	Monitored host name
ResultData.InstanceName	string	Instance name
ResultData.Version	string	Oracle version
ResultData.ConnectMode	number	Authentication mode

Parameter	Type	Description
		1: Password authentication 2: OS authentication
ResultData.UserName	string	User name
ResultData.Password	string	Password Base64 encoding
ResultData.Text	string	Description A line feed is represented as \n.

SQL Server monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceNodeID	string	Instance node ID Hexadecimal
ResultData.AppID	number	Application ID 3: SQL Server monitoring
ResultData.AgentName	string	Monitored host name
ResultData.InstanceName	string	Instance name
ResultData.ConnectMode	number	Authentication mode 1: Windows authentication 2: SQL server authentication
ResultData.UserName	string	User name
ResultData.Password	string	Password Base64 encoding
ResultData.Text	string	Description A line feed is represented as \n.

PostgreSQL monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceNodeID	string	Instance node ID Hexadecimal
ResultData.AppID	number	Application ID 6: PostgreSQL monitoring
ResultData.AgentName	string	Monitored host name
ResultData.PortNumber	number	Port number
ResultData.UserName	string	User name
ResultData.Password	string	Password Base64 encoding
ResultData.Text	string	Description A line feed is represented as \n.

WebOTX monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceNodeID	string	Instance node ID Hexadecimal
ResultData.AppID	number	Application ID 8: WebOTX monitoring
ResultData.AgentName	string	Monitored host name
ResultData.DomainName	string	Domain name
ResultData.HostName	string	Host name
ResultData.PortNumber	number	Port number
ResultData.UserName	string	User name
ResultData.Password	string	Password Base64 encoding
ResultData.ProtocolName	number	Protocol name 1: RMI/JRMP 2: JMXMP
ResultData.Text	string	Description A line feed is represented as \n.

Apache monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceNodeID	string	Instance node ID Hexadecimal
ResultData.AppID	number	Application ID 9: Apache monitoring
ResultData.AgentName	string	Monitored host name
ResultData.ServerID	string	Server identifier
ResultData.ServerName	string	Server name
ResultData.PortNumber	number	Port number
ResultData.IPVersion	number	IP version 1: IPv4 2: IPv6
ResultData.Text	string	Description A line feed is represented as \n.

Java Application 監視

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceNodeID	string	Instance node ID

Parameter	Type	Description
		Hexadecimal
ResultData.AppID	number	Application ID 13: Java application monitoring
ResultData.AgentName	string	Monitored host name
ResultData.InstanceID	string	Instance ID
ResultData.Url	string	Connection URL
ResultData.ConnectMode	number	Authentication mode 1: Password authentication 2: No authentication
ResultData.UserName	string	User name
ResultData.Password	string	Password Base64 encoding
ResultData.Text	string	Description A line feed is represented as \n.

7. Change history

- X-APPNAVI-API-Version : 1.0.0
 - Newly added

8. JSON example

[Request]

```
GET /umf/fw/appnavi/agents/5735578e/instances/573594ac/ HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilaMZ170=
```

[Response]

```
{
  "ResultData" : {
    "InstanceNodeID" : "573594ac",
    "AppID" : 1,
    "AgentName" : "AppNavi-Agent-A",
    "InstnaceName" : "ORCL112",
    "UserName" : "sys",
    "Password" : "PASSWORD",
    "Text" : "Connecting to the ORCL112 database",
    "ConnectMode" : 2
  }
}
```

4.15.2.3 Adding an instance of the monitoring middleware

1. Process overview

This is used to add an instance of the monitoring middleware.

2. HTTP method

POST

3. URL

/umf/fw/appnavi/agents/**agent_nodeid**/instances/

For **agent_nodeid**, specify the agent node ID of the target host.

4. Parameters

Oracle monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 1: Oracle monitoring
InstanceName	string	Required	Instance name
Version	string	Required	Oracle version Specify one of the following: Oracle10g Oracle11g Oracle12c
Type	number	Required	Authentication mode 1: Password authentication 2: OS authentication
UserName	string	Optional	User name It is not required to specify this property for connection through OS authentication (for a Windows agent).
Password	string	Optional	Password Specify data encoded by Base64. It is not required to specify this property for connection through OS authentication (for a Windows agent).
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

SQL Server monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 3: SQL Server monitoring
InstanceName	string	Required	Instance name
Type	number	Required	Authentication mode 1: Windows authentication 2: SQL server authentication
UserName	string	Optional	User name It is not required to specify this property for communication through Windows authentication.
Password	string	Optional	Password Specify data encoded by Base64. It is not required to specify this property for communication through Windows authentication.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

PostgreSQL monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 6: PostgreSQL monitoring
PortNumber	number	Required	Port number
UserName	string	Required	User name
Password	string	Required	Password Specify data encoded by Base64.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

WebOTX monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 8: WebOTX monitoring
DomainName	string	Required	Domain name
HostName	string	Required	Host name
PortNumber	number	Required	Port number

Property name	Type	Required/Optional	Description
UserName	string	Required	User name
Password	string	Required	Password Specify data encoded by Base64.
ProtocolName	number	Required	Protocol 1: RMI/JRMP 2: JMXMP
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

Apache monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 9: Apache monitoring
ServerID	string	Required	Server identifier
ServerName	string	Required	Server name
PortNumber	number	Required	Port number
IPVersion	number	Required	IP version 1: IPv4 2: IPv6 * If this property is omitted, IPv4 is the default.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

Java application monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 13: Java application monitoring
InstanceID	string	Required	Instance ID
Url	string	Required	Connection URL
ConnectMode	number	Required	Authentication mode 1: Password authentication 2: No authentication
UserName	string	Optional	User name

Property name	Type	Required/Optional	Description
			Do not specify this property when connecting by no authentication.
Password	string	Optional	Password Specify data encoded by Base64. Do not specify this property when connecting by no authentication.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "3.5.1 Common HTTP status code (page 11)".

6. Response (JSON)

None

7. Change history

- X-APPNAVI-API-Version : 1.0.0
 - Newly added

8. JSON example

[Request]

```
POST /umf/fw/appnavi/5735578e/instances/ HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilaMZ170=

{
  "AppID" : 1,
  "InstanceName" : "ORCL",
  "Version" : "Oracle12c",
  "ConnectMode" : 1,
  "UserName" : "appnavi",
  "Password" : "PASSWORD",
  "Manager" : {
    "Name" : "Manager1"
  }
}
```

[Response]

None

4.15.2.4 Updating the instance of the monitoring middleware

1. Process overview

This is used to update the instance of the monitoring middleware.

2. HTTP method

PUT

3. URL

/umf/fw/appnavi/agents/*agent_nodeid*/instances/*instance_nodeid*/

For *agent_nodeid*, specify the agent node ID of the target host.

For *instance_nodeid*, specify the instance node ID of the target host.

4. Parameters

Oracle monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 1: Oracle monitoring
InstanceName	string	Required	Instance name
Version	string	Required	Oracle version Specify one of the following: Oracle10g Oracle11g Oracle12c
Type	number	Required	Authentication mode 1: Password authentication 2: OS authentication
UserName	string	Optional	User name It is not required to specify this property for connection through OS authentication (for a Windows agent).
Password	string	Optional	Password Specify data encoded by Base64. It is not required to specify this property for connection through OS authentication (for a Windows agent).
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-

Property name	Type	Required/Optional	Description
Manager.Name	string	Required	Name of the manager that manages the target resource.

SQL Server monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 3: SQL Server monitoring
InstanceName	string	Required	Instance name
Type	number	Required	Authentication mode 1: Windows authentication 2: SQL server authentication
UserName	string	Optional	User name It is not required to specify this property for communication through Windows authentication.
Password	string	Optional	Password Specify data encoded by Base64. It is not required to specify this property for communication through Windows authentication.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

PostgreSQL monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 6: PostgreSQL monitoring
PortNumber	number	Required	Port number
UserName	string	Required	User name
Password	string	Required	Password Specify data encoded by Base64.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

WebOTX monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 8: WebOTX monitoring
DomainName	string	Required	Domain name
HostName	string	Required	Host name
PortNumber	number	Required	Port number
UserName	string	Required	User name
Password	string	Required	Password Specify data encoded by Base64.
ProtocolName	number	Required	Protocol 1: RMI/JRMP 2: JMXMP
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

Apache monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 9: Apache monitoring
ServerID	string	Required	Server identifier
ServerName	string	Required	Server name
PortNumber	number	Required	Port number
IPVersion	number	Required	IP version 1: IPv4 2: IPv6 * If this property is omitted, IPv4 is the default.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

Java application monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 13: Java application monitoring
InstanceID	string	Required	Instance ID

Property name	Type	Required/Optional	Description
Url	string	Required	Connection URL
ConnectMode	number	Required	Authentication mode 1: Password authentication 2: No authentication
UserName	string	Optional	User name Do not specify this property when connecting by no authentication.
Password	string	Optional	Password Specify data encoded by Base64. Do not specify this property when connecting by no authentication.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

None

7. Change history

- X-APPNAVI-API-Version : 1.0.0
 - Newly added

8. JSON example

[Request]

```
PUT /umf/fw/appnavi/5735578e/instances/573594ac HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjs311K4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilaMZ170=

{
  "AppID" : 1,
  "InstanceName" : "ORCL",
  "Version" : "Oracle12c",
  "ConnectMode" : 1,
  "UserName" : "appnavi",
```

```

    "Password" : "PASSWORD",
    "Manager" : {
        "Name" : "Manager1"
    }
}

```

[Response]

None

4.15.2.5 Deleting the instance of the monitoring middleware

1. Process overview

This is used to delete the instance of the monitoring middleware.

2. HTTP method

DELETE

3. URL

```
/umf/fw/appnavi/agents/agent_nodeid/instances/instance_nodeid?ManagerName=ManagerName&AppID=AppID
```

Specify the target manager name in **ManagerName**.

For **agent_nodeid**, specify the agent node ID of the target host.

For **instance_nodeid**, specify the instance node ID of the target host.

Specify the following values for **AppID**.

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring 3: SQL Server monitoring 6: PostgreSQL monitoring 8: WebOTX monitoring 9: Apache monitoring 13: Java application monitoring

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

None

7. Change history

- X-APPNAVI-API-Version : 1.0.0
 - Newly added

8. JSON example

[Request]

```
DELETE /umf/fw/appnavi/agents/5735578e/instances/573594ac/ HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS311K4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilamZ170=
```

[Response]

None

4.15.2.6 Automatically detecting the instance of the monitoring middleware

1. Process overview

This is used to automatically detect the instance of the monitoring middleware.

2. HTTP method

GET

3. URL

```
/umf/fw/appnavi/agents/agent_nodeid/instances/ ?ManagerName=ManagerName&AppID=AppID&Version=Version
```

Specify the target manager name in **ManagerName**.

For **agent_nodeid**, specify the agent node ID of the target host.

Specify the following values for **AppID** and **Version**.

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring
Version	string	Required	Version information Specify one of the following: Oracle10g Oracle11g Oracle12c

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "3.5.1 Common HTTP status code (page 11)".

6. Response (JSON)

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.InstanceInfo	object[]	Information of the instance
ResultData.InstanceInfo[n].InstanceName	string	Instance name

7. Change history

- X-APPNAVI-API-Version : 1.0.0

- Newly added

8. JSON example

[Request]

```
GET /umf/fw/appnavi/agents/5735578e/autoinstances/ HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimil1aMZ170=
```

[Response]

```
{
  "ResultData" : {
    "InsatnceInfo" : [
      {
        "InstnaceName" : "Oracle112-A"
      },
      {
        "InstnaceName" : "Oracle112-B"
      }
    ]
  }
}
```

4.15.2.7 Obtaining a list of the monitoring middleware licenses

1. Process overview

This is used to acquire a list of the monitoring middleware licenses.

2. HTTP method

GET

3. URL

/umf/fw/appnavi/licenses/?ManagerName=**ManagerName**&AppID=**AppID**

Specify the target manager name in **ManagerName**.

Specify the following values for **AppID**.

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 0: ALL 1: Oracle monitoring 3: SQL Server monitoring 6: PostgreSQL monitoring 8: WebOTX monitoring 9: Apache monitoring 13: Java application monitoring

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

Parameters	Type	Description
ResultData	object	Information of the request result
ResultData.LicenseInfo	object[]	License information
ResultData.LicenseInfo[n].AppID	number	Application ID 1: Oracle monitoring 3: SQL Server monitoring 6: PostgreSQL monitoring 8: WebOTX monitoring 9: Apache monitoring 13: Java application monitoring
ResultData.LicenseInfo[n].WindowsLisenceCounts	number	Number of the Windows/Linux licenses This parameter is always displayed even for the application that does not support the target monitoring middleware. In such a case, 0 is displayed.

Parameters	Type	Description
ResultData.LicenseInfo[n].WindowsLisenceUsed	number	Number of the Windows/Linux licenses in use
ResultData.LicenseInfo[n].UNIXLicenseCounts	number	Number of the Unix licenses This parameter is always displayed even for the application that does not support the target monitoring middleware. In such a case, 0 is displayed.
ResultData.LicenseInfo[n].UNIXLicenseUsed	number	Number of the Unix licenses in use

7. Change history

- X-APPNAVI-API-Version : 1.0.0

- Newly added

8. JSON example

[Request]

```
GET /umf/fw/appnavi/licenses/ HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimi1aMZ170=
```

[Response]

```
{
  "ResultData" : {
    "LicenseInfo" : [
      {
        "AppID" : 1,
        "WindowsLicenseCounts" : 5,
        "WindowsLicenseUsed" : 3,
        "UNIXLicenseCounts" : 0,
        "UNIXLicenseUsed" : 0
      },
      {
        "AppID" : 3,
        "WindowsLicenseCounts" : 1,
        "WindowsLicenseUsed" : 1,
        "UNIXLicenseCounts" : 0,
        "UNIXLicenseUsed" : 0
      }
    ]
  }
}
```

4.15.2.8 Performing a connection test for the instance of the monitoring middleware

1. Process overview

This is used to perform a connection test for the instance of the monitoring middleware

2. HTTP method

POST

3. URL

```
/umf/fw/appnavi/agents/agent_nodeid/instances/instance_nodeid/testconnection/?ManagerName=ManagerName
```

For **agent_nodeid**, specify the agent node ID of the target host.

For **instance_nodeid**, specify the instance node ID of the target host.

4. Parameters

Oracle monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 1: Oracle monitoring
InstanceName	string	Required	Instance name
Version	string	Required	Oracle version Specify one of the following: Oracle10g Oracle11g Oracle12c
Type	number	Required	Authentication mode 1: Password authentication 2: OS authentication
UserName	string	Optional	User name It is not required to specify this property for connection through OS authentication (for a Windows agent).
Password	string	Optional	Password Specify data encoded by Base64. It is not required to specify this property for connection through OS authentication (for a Windows agent).
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

SQL Server monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 3: SQL Server monitoring
InstanceName	string	Required	Instance name
Type	number	Required	Authentication mode 1: Windows authentication 2: SQL server authentication
UserName	string	Optional	User name It is not required to specify this property for communication through Windows authentication.
Password	string	Optional	Password Specify data encoded by Base64. It is not required to specify this property for communication through Windows authentication.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

PostgreSQL monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 6: PostgreSQL monitoring
PortNumber	number	Required	Port number
UserName	string	Required	User name
Password	string	Required	Password Specify data encoded by Base64.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

WebOTX monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 8: WebOTX monitoring
DomainName	string	Required	Domain name
HostName	string	Required	Host name

Property name	Type	Required/Optional	Description
PortNumber	number	Required	Port number
UserName	string	Required	User name
Password	string	Required	Password Specify data encoded by Base64.
ProtocolName	number	Required	Protocol 1: RMI/JRMP 2: JMXMP
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

Apache monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 9: Apache monitoring
ServerID	string	Required	Server identifier
ServerName	string	Required	Server name
PortNumber	number	Required	Port number
IPVersion	number	Required	IP version 1: IPv4 2: IPv6 * If this property is omitted, IPv4 is the default.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

Java application monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Application ID 13: Java application monitoring
InstanceID	string	Required	Instance ID
Url	string	Required	Connection URL
ConnectMode	number	Required	Authentication mode 1: Password authentication 2: No authentication

Property name	Type	Required/Optional	Description
UserName	string	Optional	User name Do not specify this property when connecting by no authentication.
Password	string	Optional	Password Specify data encoded by Base64. Do not specify this property when connecting by no authentication.
Text	string	Optional	Description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

Parameters	Type	Description
ResultData	object	Information of the request result
ResultData.ReturnCode	number	Execution result 0: Test connection succeeded 1: Test connection failed
ResultData.ErrorMessage	string	Error messages When a text connection failed, the error content is reported.

7. Change history

- API Version:1.0.0

- Newly added

8. JSON example

[Request]

```
POST /umf/fw/appnavi/agents/5735578e/instances/573594ac/testconnection
/ HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS311K4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilaMZ170=
```

```
{
    "AppID" : 1,
    "InstanceName" : "ORCL",
    "Version" : "Oracle12c",
    "ConnectMode" : 1,
    "UserName" : "appnavi",
    "Password" : "PASSWORD"
}
```

[Response]

```
{
    "ResultData" : {
        "ReturnCode" : 0,
        "ErrorMessage" : ""
    }
}
```

4.15.3 Specifications of the user-defined monitoring API

4.15.3.1 Obtaining a list of user definition monitoring items

1. Process overview

This is used to acquire a list of user definition monitoring items.

2. HTTP method

GET

3. URL

```
/umf/fw/appnavi/agents/agent_nodeid/instances/instance_nodeid/userdefines/?ManagerName=ManagerName&AppID=AppID
```

Specify the target manager name in **ManagerName**.

For **agent_nodeid**, specify the agent node ID of the target host.

For **instance_nodeid**, specify the instance node ID of the target host.

Specify the following values for **AppID**.

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring 3: SQL Server monitoring 9: Apache monitoring

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

Oracle monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.UserNodeInfo	object[]	Specifications of the user definition monitoring
ResultData.UserNodeInfo[n].UserNodeID	string	User definition node ID Hexadecimal
ResultData.UserNodeInfo[n].ObjectName	string	Object name
ResultData.UserNodeInfo[n].InstanceName	string	Instance name
ResultData.UserNodeInfo[n].CounterName	string	Counter name

SQL Server monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.UserNodeInfo	object[]	Specifications of the user definition monitoring
ResultData.UserNodeInfo[n].UserNodeID	string	User definition node ID Hexadecimal
ResultData.UserNodeInfo[n].ObjectName	string	Object name
ResultData.UserNodeInfo[n].InstanceName	string	Instance name
ResultData.UserNodeInfo[n].CounterName	string	Counter name

Apache monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.UserNodeInfo	object[]	Specifications of the user definition monitoring
ResultData.UserNodeInfo[n].UserNodeID	string	User definition node ID Hexadecimal
ResultData.UserNodeInfo[n].ObjectName	string	Object name
ResultData.UserNodeInfo[n].InstanceName	string	Instance name

Parameter	Type	Description
ResultData.UserNodeInfo[n].CounterName	string	Counter name

7. Change history

- X-APPNAVI-API-Version : 1.0.0

- Newly added

8. JSON example

[Request]

```
GET /umf/fw/appnavi/agents/5735578e/instances/573594ac/userdefines/ HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilaMZ170=
```

[Response]

```
{
  "ResultData" : {
    "UserDefInfo" : [
      {
        "UserNodeID" : "573a710e",
        "ObjectName" : "ORCL",
        "InstanceName" : "UserSQL",
        "CounterName" : "TableAccess01"
      },
      {
        "UserNodeID" : "573a710f",
        "ObjectName" : "ORCL",
        "InstanceName" : "UserSQL",
        "CounterName" : "TableAccess02"
      },
      {
        "UserNodeID" : "573a7110",
        "ObjectName" : "ORCL",
        "InstanceName" : "UserSQL",
        "CounterName" : "TableAccess03"
      }
    ]
  }
}
```

4.15.3.2 Obtaining the user definition monitoring information

1. Process overview

This is used to acquire the user definition monitoring information.

2. HTTP method

GET

3. URL

```
/umf/fw/appnavi/agents/agent_nodeid/instances/instance_nodeid/userdefines/userdefine_nodeid?ManagerName=ManagerName&AppID=AppID
```

Specify the target manager name in **ManagerName**.

For **agent_nodeid**, specify the agent node ID of the target host.

For **instance_nodeid**, specify the instance node ID of the target host.

For **userdefine_nodeid**, specify the user definition node ID of the target host.

Specify the following values for **AppID**.

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring 3: SQL Server monitoring 9: Apache monitoring

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "3.5.1 Common HTTP status code (page 11)".

6. Response (JSON)

Oracle monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.AppID	number	Application ID 1: Oracle monitoring
ResultData.AgentName	string	Monitored host name
ResultData.ObjectName	string	Object name
ResultData.InstanceName	string	Instance name
ResultData.CounterName	string	Counter name
ResultData.SQLText	string	Execution text of the user definition monitoring A line feed is represented as \n.
ResultData.CounterDesc	string	Counter description A line feed is represented as \n.

SQL Server monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.AppID	number	Application ID 1: Oracle monitoring
ResultData.AgentName	string	Monitored host name
ResultData.ObjectName	string	Object name
ResultData.InstanceName	string	Instance name
ResultData.CounterName	string	Counter name
ResultData.SQLText	string	Execution text of the user definition monitoring A line feed is represented as \n.
ResultData.CounterDesc	string	Counter description A line feed is represented as \n.

Apache monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.AppID	number	Application ID 1: Oracle monitoring
ResultData.AgentName	string	Monitored host name
ResultData.ObjectName	string	Object name
ResultData.InstanceName	string	Instance name
ResultData.CounterName	string	Counter name
ResultData.UserDefURL	string	URL of the user definition monitoring
ResultData.CounterDesc	string	Counter description A line feed is represented as \n.
ResultData.Time	number	Monitoring interval of the user definition monitoring
ResultData.Unit	number	Unit of monitoring interval of user-defined monitoring 1: Seconds 2: Minutes 3: Hours

7. Change history

- X-APPNAVI-API-Version : 1.0.0
 - Newly added

8. JSON example

[Request]

```
GET /umf/fw/appnavi/agents/5735578e/instances/573594ac/userdefines/573
a710e HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
```

```
Authorization: SharedKeyLite FQp6aRU9P10qNYjS311K4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilaMZ170=
```

[Response]

```
{
    "ResultData" : {
        "UserDefInfo" : {
            "AppID" : 1,
            "AgentName" : "AppNavi-Agent-A",
            "ObjectName" : "ORCL",
            "InstanceName" : "UserSQL",
            "CounterName" : "TableAccess01",
            "SQLText" : "select value from table1 where name = 'Access
Num'",
            "CounterDesc" : "Obtaining the number of accesses to the t
able"
        }
    }
}
```

4.15.3.3 Adding the user definition monitoring

1. Process overview

This is used to add the user definition monitoring.

2. HTTP method

POST

3. URL

```
/umf/fw/appnavi/agents/agent_nodeid/instances/instance_nodeid/userdefines/
```

For **agent_nodeid**, specify the agent node ID of the target host.

For **instance_nodeid**, specify the instance node ID of the target host.

4. Parameters

Oracle monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring
InstanceName	string	Required	Instance name Specify "UserSQL".
CounterName	string	Required	Counter name
SQLText	string	Required	Execution text of the user definition monitoring Specify an SQL text to be executed.
CounterDesc	string	Required	Counter description

Property name	Type	Required/Optional	Description
			For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

SQL Server monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring 3: SQL Server monitoring 9: Apache monitoring
InstanceName	string	Required	Instance name Specify "UserSQL".
CounterName	string	Required	Counter name
SQLText	string	Required	Execution text of the user definition monitoring Specify an SQL text to be executed.
CounterDesc	string	Required	Counter description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

Apache monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 9: Apache monitoring
InstanceName	string	Required	Instance name Specify "HealthCheck".
CounterName	string	Required	Counter name
UserDefURL	string	Required	URL of the user definition monitoring Specify the URL to be executed.
CounterDesc	string	Required	Counter description For a line feed, specify \n.
Time	number	Required	Monitoring interval of the user definition monitoring
Unit	number	Required	Unit of monitoring interval of user-defined monitoring 1: Seconds 2: Minutes 3: Hours
Manager	object	Required	-

Property name	Type	Required/Optional	Description
Manager.Name	string	Required	Name of the manager that manages the target resource.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

None

7. Change history

- API Version:1.0.0

- Newly added

8. JSON example

[Request]

```
POST /umf/fw/appnavi/agents/5735578e/instances/573594ac/userdefines/ H
TTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimi1aMZ170=


{
    "AppID" : 1,
    "ObjectName" : "ORCL",
    "InstanceName" : "UserSQL",
    "CounterName" : "TableAccess01",
    "SQLText" : "select value from table1 where name = 'Access Num'",
    "CounterDesc" : "Obtaining the number of accesses to the table",
    "Manager" : {
        "Name" : "Manager1"
    }
}
```

[Response]

None

4.15.3.4 Updating the user definition monitoring

1. Process overview

This is used to update the user definition monitoring.

2. HTTP method

PUT

3. URL

```
/umf/fw/appnavi/agents/agent_nodeid/instances/instance_nodeid/userdefines/userdefine_nodeid
```

For **agent_nodeid**, specify the agent node ID of the target host.

For **instance_nodeid**, specify the instance node ID of the target host.

For **userdefine_nodeid**, specify the user definition node ID of the target host.

4. Parameters

Oracle monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring
InstanceName	string	Required	Instance name Specify "UserSQL".
CounterName	string	Required	Counter name
SQLText	string	Required	Execution text of the user definition monitoring Specify an SQL text to be executed.
CounterDesc	string	Required	Counter description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

SQL Server monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring 3: SQL Server monitoring 9: Apache monitoring
InstanceName	string	Required	Instance name Specify "UserSQL".
CounterName	string	Required	Counter name
SQLText	string	Required	Execution text of the user definition monitoring Specify an SQL text to be executed.
CounterDesc	string	Required	Counter description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

Apache monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 9: Apache monitoring
InstanceName	string	Required	Instance name Specify "HealthCheck".
CounterName	string	Required	Counter name
UserDefURL	string	Required	URL of the user definition monitoring Specify the URL to be executed.
CounterDesc	string	Required	Counter description For a line feed, specify \n.
Time	number	Required	Monitoring interval of the user definition monitoring
Unit	number	Required	Unit of monitoring interval of user-defined monitoring 1: Seconds 2: Minutes 3: Hours
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

None

7. Change history

- API Version:1.0.0

- Newly added

8. JSON example

[Request]

```
PUT /umf/fw/appnavi/agents/5735578e/instances/573594ac/userdefines/573
a710e HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilamZ170=
{
```

```

    "AppID" : 1,
    "ObjectName" : "ORCL",
    "InstanceName" : "UserSQL",
    "CounterName" : "TableAccess01",
    "SQLText" : "select value from table1 where name = 'Access Num''",
    "CounterDesc" : "Obtaining the number of accesses to the table",
    "Manager" : {
        "Name" : "Manager1"
    }
}

```

[Response]

None

4.15.3.5 Deleting the user definition monitoring

1. Process overview

This is used to delete the user definition monitoring.

2. HTTP method

DELETE

3. URL

```
/umf/fw/appnavi/agents/agent_nodeid/instances/instance_nodeid/userdefines/userdefine_nodeid?ManagerName=ManagerName&AppID=AppID
```

Specify the target manager name in **ManagerName**.

For **agent_nodeid**, specify the agent node ID of the target host.

For **instance_nodeid**, specify the instance node ID of the target host.

For **userdefine_nodeid**, specify the user definition node ID of the target host.

Specify the following values for **AppID**.

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring 3: SQL Server monitoring 9: Apache monitoring

4. Parameters

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

None

7. Change history

- X-APPNAVI-API-Version : 1.0.0
 - Newly added

8. JSON example

[Request]

```
DELETE /umf/fw/appnavi/agents/5735578e/instances/573594ac/userdefines/
573a710e HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sfd01gGimilaMZ170=
```

[Response]

None

4.15.3.6 Performing a user definition monitoring text

1. Process overview

This is used to perform a user definition monitoring text.

2. HTTP method

POST

3. URL

```
/umf/fw/appnavi/agents/agent_nodeid/instances/instance_nodeid/userdefines/test
connection/
```

For **agent_nodeid**, specify the agent node ID of the target host.

For **instance_nodeid**, specify the instance node ID of the target host.

4. Parameters

Oracle monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 1: Oracle monitoring
InstanceName	string	Required	Instance name Specify "UserSQL".
CounterName	string	Required	Counter name
SQLText	string	Required	Execution text of the user definition monitoring Specify an SQL text to be executed.
CounterDesc	string	Required	Counter description

Property name	Type	Required/Optional	Description
			For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

SQL Server monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 3: SQL Server monitoring
InstanceName	string	Required	Instance name Specify "UserSQL".
CounterName	string	Required	Counter name
SQLText	string	Required	Execution text of the user definition monitoring Specify an SQL text to be executed.
CounterDesc	string	Required	Counter description For a line feed, specify \n.
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

Apache monitoring

Property name	Type	Required/Optional	Description
AppID	number	Required	Monitored application 9: Apache monitoring
InstanceName	string	Required	Instance name Specify "HealthCheck".
CounterName	string	Required	Counter name
UserDefURL	string	Required	URL of the user definition monitoring Specify an SQL text to be executed.
CounterDesc	string	Required	Counter description For a line feed, specify \n.
Time	number	Required	Monitoring interval of the user definition monitoring
Unit	number	Required	Unit of monitoring interval of user-defined monitoring 1: Seconds 2: Minutes 3: Hours
Manager	object	Required	-
Manager.Name	string	Required	Name of the manager that manages the target resource.

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	Success

* For the common status codes, see "[3.5.1 Common HTTP status code \(page 11\)](#)".

6. Response (JSON)

Oracle monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.AppID	number	Application ID 1: Oracle monitoring
ResultData.ReturnCode	number	Execution result 1: Success 2: Failed
ResultData.Value	string	Execution result value
ResultData.TimeValue	string	Execution time (seconds)
ResultData.ErrorMessage	string	Error details

SQL Server monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.AppID	number	Application ID 3: SQL Server monitoring
ResultData.ReturnCode	number	Execution result 1: Success 2: Failed
ResultData.Value	string	Execution result value
ResultData.TimeValue	string	Execution time (seconds)
ResultData.ErrorMessage	string	Error details

Apache monitoring

Parameter	Type	Description
ResultData	object	Information of the request result
ResultData.AppID	number	Application ID 9: Apache monitoring
ResultData.ReturnCode	number	Execution result 1: Success 2: Failed
ResultData.Value	string	Execution result value
ResultData.ErrorMessage	string	Error details

7. Change history

- X-APPNAVI-API-Version : 1.0.0

- Newly added

8. JSON example

[Request]

```
GET /umf/fw/appnavi/agents/5735578e/instances/573594ac/userdefines/testconnection/ HTTP/1.0
Content-Type: application/json; charset=utf-8
X-APPNAVI-API-Version: 1.0.0
Date: Mon, 8 Feb 2016 09:00:00 GMT
Authorization: SharedKeyLite FQp6aRU9P10qNYjS31lK4oiuSvZff2S31OSWbIeip
Cs=:+TFezGcIwVOY8K0su2xTYeP0m+sf01gGimilaMZ170=

{
    "AppID" : 1,
    "InstanceName" : "UserSQL",
    "CounterName" : "TableAccess01",
    "SQLText" : "select value from table1 where name = 'Access Num'",
    "CounterDesc" : "Obtaining the number of accesses to the table",
    "Manager" : {
        "Name" : "Manager1"
    }
}
```

[Response]

```
{
    "ResultData" : {
        "AppID" : 1,
        "ReturnCode" : 1,
        "Value" : "500",
        "TimeValue" : "1",
        "ErrorMessage" : ""
    }
}
```

4.16 Obtaining the other information

4.16.1 Obtaining the severity

1. Process overview

Obtain the information on the severity (system severity, user severity, user mark).
The severity is output in order of priority.

2. HTTP method

GET

3. URL

```
/umf/fw/severity?ManagerName=ManagerName
```

For an environment where more than one manager exists, specify the manager name as **ManagerName**.

4. Parameter

None

5. Response (HTTP status code)

HTTP status code	Meaning	Description
200	OK	The severity has been obtained successfully.
404	Not Found	The specified manager does not exist.

6. Response

Parameter	Data type	Description	Valid value								
(Root)	object	Root object	-								
ManagerProperty	object[]	Array of the information per manager	-								
ManagerProperty[n].Severity	object[]	Array of the severity information	-								
ManagerProperty[n].Severity[m].SeverityType	number	Severity type	1: System severity 2: User severity 3: User mark								
ManagerProperty[n].Severity[m].DisplayName	string	Display name of the severity	-								
ManagerProperty[n].Severity[m].InternalName	string	Severity internal name	-								
ManagerProperty[n].Severity[m].SeverityID	number	Severity ID	<table border="1"> <thead> <tr> <th>Severity type</th> <th>Severity ID</th> </tr> </thead> <tbody> <tr> <td>1 (System severity)</td> <td>256 to 286</td> </tr> <tr> <td>2 (User severity)</td> <td>512 to 543</td> </tr> <tr> <td>3 (User mark)</td> <td>768 to 895</td> </tr> </tbody> </table>	Severity type	Severity ID	1 (System severity)	256 to 286	2 (User severity)	512 to 543	3 (User mark)	768 to 895
Severity type	Severity ID										
1 (System severity)	256 to 286										
2 (User severity)	512 to 543										
3 (User mark)	768 to 895										
ManagerProperty[n].Severity[m].SeverityColor	number	Display color of the severity	Decimal RGB value								
ManagerProperty[n].Severity[m].SoundType	number	Sound type	0: Not specified 1: Single tone 2: Intermittent tone 3: Constant tone 4: WAVE tone								
ManagerProperty[n].Severity[m].SoundFile	string	File name of the sound (WAVE)	* Information if the sound type is set to "4: WAVE tone"								
ManagerProperty[n].Severity[m].SoundCount	number	Ring count of sound	* Information if the sound type is set to "4: WAVE tone" Ring count 0 means the endless sound.								

Parameter	Data type	Description	Valid value
ManagerProperty[n].Manager	object	Manager object	-
ManagerProperty[n].Manager.Name	string	Manager name	Manager name MoM name or RM name
ManagerProperty[n].Manager.ErrorMessage	string	Error message	-
ManagerProperty[n].Manager.Status	number	Communication error code	-
ManagerProperty[n].Manager.StatusCode	number	Internal error code	-

7. Change history

- X-FW-API-Version: 1.0
 - Newly added.

8. JSON example

[Request]

```
GET /umf/fw/severity HTTP/1.1
Accept: application/json, */*
Date: Fri, 13 May 2016 07:40:18 GMT
Content-Type: application/json; charset=utf-8
Authorization: SharedKeyLite +SrNGV3kz33vLedCtzQHp4W0cJyLcbTp28IylwP4Q
hs=:bQKj910i6ngVuy9/ZsWK6q8uuTG0eL5Qv13U19oqnNU=
X-FW-API-Version: 1.0
Cache-Control: no-cache
Pragma: no-cache
User-Agent: Java/1.8.0_72
Host: 192.168.17.49:12080
Connection: keep-alive
```

[Response]

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Pragma: no-cache
X-XSS-Protection: 1
X-Content-Type-Options: nosniff
Cache-Control: no-store
Content-Type: application/json; charset=UTF-8
Content-Length: 5550
Date: Fri, 13 May 2016 07:56:53 GMT

{
  "ManagerProperty" : [ {
    "Severity" : [ {
      "SoundType" : 0,
      "SeverityColor" : 255,
      "SeverityID" : 256,
      "SeverityType" : 1,
      "SoundFile" : "",
      "DisplayName" : "STOP",
      "Priority" : 1
    } ]
  } ]
}
```

```
        "SoundCount" : 0,
        "InternalName" : "STOP"
    } , {
        "SoundType" : 0,
        "SeverityColor" : 16776960,
        "SeverityID" : 770,
        "SeverityType" : 3,
        "SoundFile" : "",
        "DisplayName" : "Processed",
        "SoundCount" : 0,
        "InternalName" : "MARK3"
    } ],
    "Manager" : {
        "Name" : "localhost",
        "Status" : 200,
        "StatusCode" : 200,
        "ErrorMessage" : ""
    }
} ]
}
```

Appendix A. Revision history

- First edition (March 2016): Newly created
- Second edition (December 2016)
 - Deleted the specific API names from "[1.1 Functional outline \(page 2\)](#)" and added the description to refer to the description of each API.
 - Deleted the description of how to delete categories and so on manually from "[Chapter 2 Prerequisites \(page 6\)](#)".

MasterScope SystemManager G
WebAPI Reference

March, 2017 1st Edition

NEC Corporation

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