



Red Hat JBoss Operations Network 3.3

Development - REST API

For developing remote clients

Edition 3.3.9

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Abstract

This is an API reference for the REST interface. The REST interface provides a more flexible, scalable, and dynamic way to create remote clients and monitoring consoles.

Table of Contents

| | |
|---|---------------|
| CHAPTER 1. REST INTERFACE | 4 |
| 1.1. HTTP://LOCALHOST:7080/REST/ : HANDLE THE ROOT CONTEXT TO HAVE AN ANCHOR FOR DISCOVERABILITY | 4 |
| 1.2. HTTP://LOCALHOST:7080/REST/ALERT : DEAL WITH ALERTS | 4 |
| 1.3. HTTP://LOCALHOST:7080/REST/ALERT : DEAL WITH ALERT DEFINITIONS | 9 |
| 1.4. HTTP://LOCALHOST:7080/REST/CONTENT : CONTENT RELATED | 19 |
| 1.5. HTTP://LOCALHOST:7080/REST/EVENT : API THAT DEALS WITH EVENTS (E.G SNMP TRAPS, LOG FILE LINES) | 22 |
| 1.6. HTTP://LOCALHOST:7080/REST/GROUP : DEAL WITH GROUPS AND DYNAGROUPS | 27 |
| 1.7. HTTP://LOCALHOST:7080/REST/METRIC : DEAL WITH METRICS | 35 |
| 1.8. HTTP://LOCALHOST:7080/REST/OPERATION : ENDPOINTS FOR OPERATIONS. | 48 |
| 1.9. HTTP://LOCALHOST:7080/REST/PLUGINS : PLUGIN RELATED | 52 |
| 1.10. HTTP://LOCALHOST:7080/REST/REPORTS : PROVIDE THE REPORTS THAT ARE ALSO RUN FROM THE REPORTS SECTION OF THE UI. ALL REPORTS ARE ONLY AVAILABLE IN CSV FORMAT | 57 |
| 1.11. HTTP://LOCALHOST:7080/REST/RESOURCE : RESOURCE RELATED | 61 |
| 1.12. HTTP://LOCALHOST:7080/REST/RESOURCE/TYPE : RESOURCE TYPE RELATED | 73 |
| 1.13. HTTP://LOCALHOST:7080/REST/STATUS : PROVIDE SYSTEM STATUS INFORMATION | 74 |
| 1.14. HTTP://LOCALHOST:7080/REST/USER : API THAT DEALS WITH USER RELATED STUFF | 74 |
| CHAPTER 2. REST API DATA CLASSES | 78 |
| 2.1. DATA-CLASS: ALERTCONDITIONREST | 78 |
| 2.2. DATA-CLASS: ALERTDEFINITIONREST | 78 |
| 2.3. DATA-CLASS: ALERTNOTIFICATIONREST | 79 |
| 2.4. DATA-CLASS: ALERTREST | 80 |
| 2.5. DATA-CLASS: ALERTSENDER | 80 |
| 2.6. DATA-CLASS: AVAILABILITYREST | 81 |
| 2.7. DATA-CLASS: AVAILABILITYSUMMARY | 81 |
| 2.8. DATA-CLASS: BASELINE | 82 |
| 2.9. DATA-CLASS: CALLTIMEVALUEREST | 82 |
| 2.10. DATA-CLASS: CREATECBRESOURCEREQUEST | 83 |
| 2.11. DATA-CLASS: DOUBLEVALUE | 83 |
| 2.12. DATA-CLASS: EVENTDEFINITIONREST | 83 |
| 2.13. DATA-CLASS: EVENTREST | 84 |
| 2.14. DATA-CLASS: EVENTSOURCEREST | 84 |
| 2.15. DATA-CLASS: GROUPDEFINITIONREST | 85 |
| 2.16. DATA-CLASS: GROUPEST | 85 |
| 2.17. DATA-CLASS: INTEGERVERUE | 86 |
| 2.18. DATA-CLASS: LINK | 86 |
| 2.19. DATA-CLASS: METRICAGGREGATE | 86 |
| 2.20. DATA-CLASS: METRICDEFINITIONAGGREGATE | 87 |
| 2.21. DATA-CLASS: METRICSCHEDULE | 88 |
| 2.22. DATA-CLASS: NUMERICDATAPOINT | 88 |
| 2.23. DATA-CLASS: OPERATIONDEFINITIONREST | 88 |
| 2.24. DATA-CLASS: OPERATIONHISTORYREST | 89 |
| 2.25. DATA-CLASS: OPERATIONREST | 89 |
| 2.26. DATA-CLASS: PLUGINREST | 90 |
| 2.27. DATA-CLASS: RESOURCETYPEREEST | 90 |
| 2.28. DATA-CLASS: RESOURCEWITHCHILDREN | 91 |
| 2.29. DATA-CLASS: RESOURCEWITHTYPE | 91 |
| 2.30. DATA-CLASS: SIMPLEPROPDEF | 92 |
| 2.31. DATA-CLASS: STATUS | 93 |
| 2.32. DATA-CLASS: STRINGVALUE | 93 |

CHAPTER 1. REST INTERFACE



NOTE

Base path (if not otherwise specified) is `http://localhost:7080/rest`

1.1. HTTP://LOCALHOST:7080/REST/ : HANDLE THE ROOT CONTEXT TO HAVE AN ANCHOR FOR DISCOVERABILITY

Defining class: `org.rhq.enterprise.server.rest.RootHandlerBean`

Produces: `application/json`, `application/xml`, `text/html`, `application/vnd.rhq.wrapped+json`

Methods

- **GET //index**

Description

Return links from the root `/index` of the REST-resource tree

This method has no parameters

Return type: [javax.ws.rs.core.Response](#)

- **GET /**

Description

Return links from the root `/` of the REST-resource tree

This method has no parameters

Return type: [javax.ws.rs.core.Response](#)

1.2. HTTP://LOCALHOST:7080/REST/ALERT : DEAL WITH ALERTS

This api deals with alerts that have fired.

Defining class: `org.rhq.enterprise.server.rest.AlertHandlerBean`

Produces: `application/json`, `application/xml`, `text/html`, `application/vnd.rhq.wrapped+json`

Methods

- **GET /alert**

Description

List all alerts, possibly limiting by resource or alert definition, priority and start time

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|--------------------|--------|--|----------|---------|------------------------|---------------|
| page | Query | Page number | false | int | all | 0 |
| size | Query | Page size; use -1 for 'unlimited' | false | int | all | 100 |
| prio | Query | Limit to priority | false | String | High, Medium, Low, All | All |
| slim | Query | Should full resources and definitions be sent | false | boolean | all | false |
| since | Query | If non-null only send alerts that have fired after this time, time is milliseconds since epoch | false | Long | all | |
| resourceId | Query | Id of a resource to limit search for | false | Integer | all | |
| definitionId | Query | Id of an alert definition to search for | false | Integer | all | |
| unacknowledgedOnly | Query | Should only unacknowledged alerts be sent | false | boolean | all | false |

Return type: [List<AlertRest>](#) (multi)

Error codes:

| Code | Reason |
|------|--|
| 406 | There are 'resourceId' and 'definitionId' passed as query parameters |
| 406 | Page size was 0 |
| 406 | Page number was < 0 |

- **GET /alert/count**

Description

Return a count of alerts in the system depending on criteria

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|-------|--------|---|----------|------|----------------|---------------|
| since | Query | If non-null only send alerts that have fired after this time, time is millisecond since epoch | false | Long | all | |

Return type: [IntegerValue](#)

- **GET /alert/{id}**

Description

Get one alert with the passed id

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-----------------------------|----------|------|----------------|---------------|
| id | Path | Id of the alert to retrieve | true | int | all | |

| | | | | | | |
|------|-------|---|-------|---------|-----|-------|
| slim | Query | Should full resources and definitions be sent | false | boolean | all | false |
|------|-------|---|-------|---------|-----|-------|

Return type: [AlertRest](#)

- **GET /alert/{id}/conditions**

Description

Return the condition logs for the given alert

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-----------------------------|----------|------|----------------|---------------|
| id | Path | Id of the alert to retrieve | true | int | all | |

Return type: [javax.ws.rs.core.Response](#)

- **GET /alert/{id}/notifications**

Description

Return the notification logs for the given alert

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-----------------------------|----------|------|----------------|---------------|
| id | Path | Id of the alert to retrieve | true | int | all | |

Return type: [javax.ws.rs.core.Response](#)

- **PUT /alert/{id}**

Description

Mark the alert as acknowledged (by the caller)

Notes

Returns a slim version of the alert

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------------------|----------|------|----------------|---------------|
| id | Path | Id of the alert to acknowledge | true | int | all | |

Return type: [AlertRest](#)

- **DELETE /alert/{id}**

Description

Remove the alert from the list of alerts

Notes

This operation is by default idempotent, returning 204. If you want to check if the alert existed at all, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|------------------------------|----------|---------|----------------|---------------|
| id | Path | Id of the alert to remove | true | int | all | |
| validate | Query | Validate if the alert exists | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 204 | Alert was deleted or did not exist with validation not set |
| 404 | Alert did not exist and validate was set |

- **GET /alert/{id}/definition**

Description

Get the alert definition (basics) for the alert

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--|----------|------|----------------|---------------|
| id | Path | Id of the alert to show the definition | true | int | all | |

Return type: [AlertDefinitionRest](#)

1.3. HTTP://LOCALHOST:7080/REST/ALERT : DEAL WITH ALERT DEFINITIONS

This api deals with alert definitions.

Defining class: org.rhq.enterprise.server.rest.AlertDefinitionHandlerBean

Produces: application/json, application/xml, text/html, application/vnd.rhq.wrapped+json

Methods

- **GET /alert/definition**

Description

Redirects to /alert/definitions

This method has no parameters

Return type: [javax.ws.rs.core.Response](#)

- **GET /alert/definitions**

Description

List all Alert Definition

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--|----------|---------|----------------|---------------|
| full | Query | Should conditions and notifications be returned too? | false | boolean | all | false |
| page | Query | Page number | false | Integer | all | |

| | | | | | | |
|------------|-------|--------------------------|-------|---------|-----|----|
| ps | Query | Page size | false | int | all | 20 |
| resourceId | Query | Resource id to filter by | false | Integer | all | |

Return type: [AlertDefinitionRest \(multi\)](#)

- **GET /alert/definition/{id}**

Description

Get one AlertDefinition by id

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--|----------|---------|----------------|---------------|
| id | Path | Id of the alert definition to retrieve | true | int | all | |
| full | Query | Should conditions and notifications be returned too? | false | boolean | all | true |

Return type: [AlertDefinitionRest](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | No definition found with the passed id. |

- **POST /alert/definitions**

Description

Create an AlertDefinition for the resource/group/resource type passed as query param. One and only one of the three params must be given at any time. Please also check the POST method for conditions and notifications to see their options

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|----------------|--------|---|-------|-------------------------------------|-----|--|
| resourceId | Query | The id of the resource to attach the definition to | false | Integer | all | |
| groupId | Query | The id of the group to attach the definition to | false | Integer | all | |
| resourceTypeId | Query | The id of the resource type to attach the definition to | false | Integer | all | |
| | -body- | The data for the new definition | true | AlertDefinitionRest | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 406 | There was not exactly one of 'resourceId', 'groupId' or 'resourceTypeId' given |
| 406 | The passed condition failed validation |
| 406 | The passed group was a mixed group, that can not have alert definitions |
| 404 | A non existing alert notification sender was requested. |
| 404 | A referenced alert to recover does not exist |

- **PUT /alert/definition/{id}**

Description

Update the alert definition (priority, enablement, dampening, recovery)

Notes

Priority must be HIGH,LOW,MEDIUM. If not provided, LOW is assumed.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------------------------|----------|-------------------------------------|----------------|---------------|
| id | Path | Id of the alert definition to update | true | int | all | |
| | -body- | Data for the update | true | AlertDefinitionRest | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | No AlertDefinition with the passed id exists |

• DELETE /alert/definition/{id}

Description

Delete an alert definition

Notes

This operation is by default idempotent, returning 204.If you want to check if the definition existed at all, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|-----------------------------------|----------|---------|----------------|---------------|
| id | Path | Id of the definition to delete | true | int | all | |
| validate | Query | Validate if the definition exists | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 204 | Definition was deleted or did not exist with validation not set |
| 404 | Definition did not exist and validate was set |

- **DELETE /alert/condition/{cid}**

Description

Remove an alert condition

Notes

This operation is by default idempotent, returning 204. If you want to check if the condition existed at all, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|-----------------------------------|----------|---------|----------------|---------------|
| cid | Path | The id of the condition to remove | true | int | all | |
| validate | Query | Validate if the condition exists | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 204 | Condition was deleted or did not exist with validation not set |
| 404 | Condition did not exist and validate was set |

- **POST /alert/definition/{id}/conditions**

Description

Add a new alert condition to an existing alert definition

Notes

Each condition falls into a category. Allowed categories are AVAILABILITY, AVAIL_DURATION, BASELINE(m), CHANGE(m), CONTROL, DRIFT, EVENT, RANGE(m), RESOURCE_CONFIG, THRESHOLD(m), TRAIT(m). Categories with an appended (m) are for metrics and need a metricDefinition, but no name, as the name is obtained from the metric definition. Parameters vary depending on the category:

- AVAILABILITY: name is one of AVAIL_GOES_DOWN, AVAIL_GOES_DISABLED, AVAIL_GOES_UNKNOWN, AVAIL_GOES_NOT_UP and AVAIL_GOES_UP.
- AVAIL_DURATION: name is one of AVAIL_DURATION_DOWN and AVAIL_DURATION_NOT_UP; option gives the duration in seconds.
- BASELINE: option is one of 'min','mean','max', threshold gives the percentage (0.01=1%), comparator is one of '<','=' and '>'.
- CONTROL: option gives the Operation status (FAILURE,SUCCESS,INPROGRESS,CANCELED), name is the name of the operation (not the display-name).
- EVENT: name is the severity (DEBUG,INFO,WARN,ERROR,FATAL), option is an optional RegEx to match against.
- DRIFT: name is optional and matches drift-definitions; option is optional and matches directories.
- RANGE: threshold has the lower bound, option the higher bound, comparator is one of '<','<=','=','>=' or '>'.
- RESOURCE_CONFIG: no additional params needed.
- THRESHOLD: comparator is one of '<','=','>'; threshold is the value to compare against.
- TRAIT: option is an optional RegEx to match against.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------------------|----------|------------------------------------|----------------|---------------|
| id | Path | The id of the alert definition | true | int | all | |
| | -body- | The condition to add | true | AlertConditionRest | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | No AlertDefinition with the passed id exists |
| 406 | The passed condition failed validation. A more detailed message is provided |

- **PUT /alert/condition/{cid}**

Description

Update an existing condition of an alert definition. Note that the update will change the id of the condition

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-----------------------------------|----------|------------------------------------|----------------|---------------|
| cid | Path | The id of the condition to update | true | int | all | |
| | -body- | The updated condition | true | AlertConditionRest | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | Condition with passed id does not exist |
| 406 | The passed category or condition operator was invalid |

- **GET /alert/condition/{cid}**

Description

Retrieve a condition of an alert definition by its condition id

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|-----|------|-------------------------------------|------|-----|-----|--|
| cid | Path | The id of the condition to retrieve | true | int | all | |
|-----|------|-------------------------------------|------|-----|-----|--|

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | No condition with the passed id exists |

- **GET /alert/notification/{nid}**

Description

Return a notification definition by its id

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|---|----------|------|----------------|---------------|
| nid | Path | The id of the notification definition to retrieve | true | int | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | No notification with the passed id found |

- **DELETE /alert/notification/{nid}**

Description

Remove a notification definition

Notes

This operation is by default idempotent, returning 204. If you want to check if the notification existed at all, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|---|----------|---------|----------------|---------------|
| nid | Path | The id of the notification definition to remove | true | int | all | |
| validate | Query | Validate if the notification exists | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 204 | Notification was deleted or did not exist with validation not set |
| 404 | Notification did not exist and validate was set |

- **PUT /alert/notification/{nid}**

Description

Update a notification definition

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|---|----------|---|----------------|---------------|
| nid | Path | The id of the notification definition to update | true | int | all | |
| | -body- | The updated notification definition to use | true | AlertNotificationRes t | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | There is no notification with the passed id |

- **POST /alert/definition/{id}/notifications**

Description

Add a new notification definition to an alert definition

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--|----------|--|----------------|---------------|
| id | Path | Id of the alert definition that should get the notification definition | true | int | all | |
| | -body- | The notification definition to add | true | AlertNotificationRes t | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | Requested alert notification sender does not exist |
| 404 | There is no alert definition with the passed id |

- **GET /alert/senders**

Description

Return a list of alert notification senders with a short description. The list does not include the configuration definition.

Supports returning a gzip'ed Content-Encoding

This method has no parameters

Return type: [javax.ws.rs.core.Response](#)

- **GET /alert/sender/{name}**

Description

Return an alert notification sender by name. This includes information about the configuration it expects

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------------------|----------|--------|----------------|---------------|
| name | Path | Name of the sender to retrieve | true | String | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | There is no sender with the passed name |

1.4. HTTP://LOCALHOST:7080/REST/CONTENT : CONTENT RELATED

This endpoint deals with content (upload)

Defining class: `org.rhq.enterprise.server.rest.ContentHandlerBean`

Produces: `application/json`, `application/xml`

Methods

- **POST /content/fresh**

Description

Upload content to the server. This will return a handle that can be used later to retrieve and further process the content

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|--|--------|---|------|-------------------------------------|-------|--------|
| | -body- | An application/octet-stream to be stored. | true | java.io.InputStream | -all- | -none- |
|--|--------|---|------|-------------------------------------|-------|--------|

Return type: [javax.ws.rs.core.Response](#)

- **GET /content/{handle}/info**

Description

Retrieve the length of the content with the passed handle

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|--------|--------|-------------|----------|--------|----------------|---------------|
| handle | Path | <i>none</i> | | String | -all- | -none- |

Return type: [IntegerValue](#)

- **PUT /content/{handle}/plugins**

Description

Put the uploaded content into the plugin drop box.

Notes

This endpoint allows to deploy previously uploaded content as a plugin. You need to provide a valid plugin (file) name in order for the plugin processing to succeed. Optionally you can request that a plugin scan will be started and the plugin be registered in the system. You can also specify a delay in milliseconds after which the plugin will be automatically pushed out to the agents. Note that a non-negative "pushOutDelay" only makes sense when the "scan" is set to true, otherwise no update on the agents can occur because there will be no updated plugins on the server. If a non-negative "pushOutDelay" is given together with "scan" set to false a 406 error is returned. The content identified by the handle is not removed. Note that this method is deprecated - use a PUT to /plugins.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|--------|--------|--|----------|--------|----------------|---------------|
| handle | Path | Name of the handle retrieved from upload | true | String | all | |

| | | | | | | |
|--------------|-------|--|-------|---------|-----|-------|
| name | Query | Name of the plugin file | false | String | all | |
| scan | Query | Should a discovery scan be started? | false | boolean | all | false |
| pushOutDelay | Query | The delay in milliseconds before the agents update their plugins. Any negative value disables the automatic update of agents | false | long | all | -1 |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 406 | No name provided or invalid combination of parameters supplied |
| 404 | No content for handle found |
| 403 | Caller has not rights to upload plugins |

- **DELETE /content/{handle}**

Description

Remove the content with the passed handle

Notes

This operation is by default idempotent, returning 204. If you want to check if the content existed at all, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|--------------------------------|----------|---------|----------------|---------------|
| handle | Path | <i>none</i> | | String | <i>-all-</i> | <i>-none-</i> |
| validate | Query | Validate if the content exists | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 204 | Content was deleted or did not exist with validation not set |
| 404 | Content did not exist and validate was set |

1.5. HTTP://LOCALHOST:7080/REST/EVENT : API THAT DEALS WITH EVENTS (E.G SNMP TRAPS, LOG FILE LINES)

Defining class: `org.rhq.enterprise.server.rest.EventHandlerBean`

Produces: `application/json`, `application/xml`, `text/html`, `application/vnd.rhq.wrapped+json`

Methods

- **GET /event/{id}/sources**

Description

List the defined event sources for the resource

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------|----------|------|----------------|---------------|
| id | Path | id of the resource | true | int | all | |

Return type: [EventSourceRest](#) (multi)

- **GET /event/{id}/definitions**

Description

List the defined event source definitions for the resource

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------|----------|------|----------------|---------------|
| id | Path | id of the resource | true | int | all | |

Return type: [EventDefinitionRest](#) (multi)

- **GET /event/source/{id}**

Description

Retrieve the event source with the passed id

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|------------------------------|----------|------|----------------|---------------|
| id | Path | Id of the source to retrieve | true | int | all | |

Return type: [EventSourceRest](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | There is no event source with the passed id |

- **POST /event/{id}/sources**

Description

Add a new event source for a resource. This can e.g. be a different log file. The source name must match an existing definition for this resource. If an event source for the definition name and resource with the same location already exists, no new source is created. NOTE: An Event source added this way will not show up in the connection properties.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------|----------|------|----------------|---------------|
| id | Path | id of the resource | true | int | all | |

| | | | | | | |
|--|--------|-------------------------------|------|---------------------------------|-------|--------|
| | -body- | The event source to be added. | true | EventSourceRest | -all- | -none- |
|--|--------|-------------------------------|------|---------------------------------|-------|--------|

Return type: [EventSourceRest](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | Resource with the passed id does not exist |
| 404 | Event definition with the passed name not found |
| 406 | Tried to create an event source on the same definition with the same location |

- **DELETE /event/source/{id}**

Description

Delete the event source with the passed id

Notes

This operation is by default idempotent, returning 204. If you want to check if the source existed at all, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|--------------------------------|----------|---------|----------------|---------------|
| id | Path | Id of the source to delete | true | int | all | |
| validate | Query | Validate if the content exists | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 204 | Source was deleted or did not exist with validation not set |

404

Source did not exist and validate was set

- **GET /event/source/{id}/events**

Description

List the events for the event source with the passed id. If no time range is given, the last 200 entries will be displayed

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|-----------|--------|--|----------|---------|---------------------------------|---------------|
| id | Path | <i>none</i> | | int | <i>-all-</i> | <i>-none-</i> |
| startTime | Query | <i>none</i> | | long | <i>-all-</i> | <i>-none-</i> |
| endTime | Query | <i>none</i> | | long | <i>-all-</i> | <i>-none-</i> |
| severity | Query | Select the severity to display. Default is to show all | false | String | DEBUG, INFO, WARN, ERROR, FATAL | |
| ps | Query | Page size for paging | false | int | all | 20 |
| page | Query | Page for paging, 0-based | false | Integer | all | |

Return type: [EventRest \(multi\)](#)

- **GET /event/{id}/events**

Description

List the events for the resource with the passed id. If no time range is given, the last 200 entries will be displayed

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|-----------|--------|--|----------|---------|---------------------------------|---------------|
| id | Path | <i>none</i> | | int | -all- | -none- |
| startTime | Query | <i>none</i> | | long | -all- | -none- |
| endTime | Query | <i>none</i> | | long | -all- | -none- |
| ps | Query | Page size for paging | false | int | all | 20 |
| page | Query | Page for paging, 0-based | false | Integer | all | |
| severity | Query | Select the severity to display. Default is to show all | false | String | DEBUG, INFO, WARN, ERROR, FATAL | |

Return type: [EventRest \(multi\)](#)

- **POST /event/source/{id}/events**

Description

Submit multiple events for one given event source; the event source in the passed Events is ignored. Make sure your events are ordered by timestamp to get alerts fired correctly.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|---------------------------------|----------|---------------------------------------|----------------|---------------|
| id | Path | Id of the source to add data to | true | int | all | |
| | -body- | A list of events to add. | true | List<EventRest> | -all- | -none- |

Return type: [javax.ws.rs.core.Response](#)

1.6. HTTP://LOCALHOST:7080/REST/GROUP : DEAL WITH GROUPS AND DYNAGROUPS

Api that deals with resource groups and group definitions

Defining class: org.rhq.enterprise.server.rest.GroupHandlerBean

Produces: application/json, application/xml, text/html, application/vnd.rhq.wrapped+json

Methods

- **GET /group**

Description

List all groups

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|------------------------------------|----------|---------|----------------|---------------|
| q | Query | String to search in the group name | false | String | all | |
| ps | Query | Page size for paging | false | int | all | 20 |
| page | Query | Page number for paging, 0-based | false | Integer | all | |

Return type: [GroupRest \(multi\)](#)

- **GET /group/{id}**

Description

Get the group with the passed id

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-----------------|----------|------|----------------|---------------|
| id | Path | Id of the group | true | int | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--------------------------------|
| 404 | Group with passed id not found |

- **POST /group**

Description

Create a new group

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|---|----------|--------------------------------|----------------|---------------|
| | -body- | A GroupRes t object containin g at least a name for the group | true | GroupRes t | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | Resource type for provided type id does not exist |
| 406 | No group provided |
| 406 | Provided group has no name |

- **PUT /group/{id}**

Description

Update the passed group. Currently only name change is supported

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|----|--------|---------------------------|------|---|-----|--|
| id | Path | Id of the group to update | true | int | all | |
| | -body- | New version of the group | true | GroupRes t | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | Group with the passed id does not exist |
| 406 | Updating the name failed |

- **DELETE /group/{id}**

Description

Delete the group with the passed id

Notes

This operation is by default idempotent, returning 204. If you want to check if the group existed at all, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|------------------------------|----------|---------|----------------|---------------|
| id | Path | Id of the group to delete | true | int | all | |
| validate | Query | Validate if the group exists | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 204 | Group was deleted or did not exist with validation not set |
| 404 | Group did not exist and validate was set |

- **GET /group/{id}/resources**

Description

Get the resources of the group

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|---|----------|------|----------------|---------------|
| id | Path | Id of the group to retrieve the resources for | true | int | all | |

Return type: [ResourceWithType \(multi\)](#)

Error codes:

| Code | Reason |
|------|-------------------------------------|
| 404 | Group with passed id does not exist |

- **PUT /group/{id}/resource/{resourceId}**

Description

Add a resource to an existing group

Notes

If you have created the group as a compatible group and a resource type was provided on creation, only resources with this type may be added.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|---------------------------|----------|------|----------------|---------------|
| id | Path | Id of the existing group | true | int | all | |
| resourceId | Path | Id of the resource to add | true | int | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | If there is no resource or group with the passed id |
| 409 | Resource type does not match the group one |

- **DELETE /group/{id}/resource/{resourceId}**

Description

Remove the resource with the passed id from the group

Notes

This operation is by default idempotent, returning 204 even if the resource was not member of the group. If you want to check if the resource existed at all, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|--|----------|---------|----------------|---------------|
| id | Path | Id of the existing group | true | int | all | |
| resourceId | Path | Id of the resource to remove | true | int | all | |
| validate | Query | Validate if the resource exists in the group | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | Group with the passed id does not exist |
| 404 | Resource with the passed id does not exist |

| | |
|-----|---|
| 204 | Resource was removed from the group or was no member and validation was not set |
| 404 | Resource was no member of the group and validate was set |

- **GET /group/{id}/metricDefinitions**

Description

Get the metric definitions for the compatible group with the passed id

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-----------------|----------|------|----------------|---------------|
| id | Path | Id of the group | true | int | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | Group with the passed id does not exist |

- **GET /group/definitions**

Description

List all existing GroupDefinitions

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|---|----------|--------|----------------|---------------|
| q | Query | String to search in the group definition name | false | String | all | |

Return type: [GroupDefinitionRest \(multi\)](#)

- **GET /group/definition/{id}**

Description

Retrieve a single GroupDefinition by id

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------------------------|----------|------|----------------|---------------|
| id | Path | The id of the definition to retrieve | true | int | all | |

Return type: [GroupDefinitionRest](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | Group definition with the passed id does not exist. |

• DELETE /group/definition/{id}

Description

Delete the GroupDefinition with the passed id

Notes

This operation is by default idempotent, returning 204.If you want to check if the definition existed at all, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|------------------------------------|----------|---------|----------------|---------------|
| id | Path | The id of the definition to delete | true | int | all | |
| validate | Query | Validate if the definition exists | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 204 | Definition was deleted or did not exist with validation not set |
| 404 | Definition did not exist and validate was set |

- **POST /group/definitions**

Description

Create a new GroupDefinition.

Notes

The name of the group is required in the passed definition, as well as a non-empty expression. A recalInterval of 0 means to never recalculate.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--|----------|-------------------------------------|----------------|---------------|
| | -body- | The group definition to use for the new group. | true | GroupDefinitionRest | -all- | -none- |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 406 | Passed group definition has no name |
| 406 | Passed expression was empty |
| 406 | Recalculation interval is < 0 |
| 409 | There already exists a definition by this name |
| 406 | Group creation failed |

- **PUT /group/definition/{id}**

Description

Update or recalculate an existing GroupDefinition

Notes

If the query param 'recalculate' is set to true, the group with the passed id is recalculated. Otherwise the existing group will be updated with the passed definition. The expression in the definition must be empty. If the name is empty, the old name is kept. A recalInterval of 0 means no recalculation.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|-------------|--------|---|----------|-------------------------------------|----------------|---------------|
| id | Path | Id for the definition to update | true | int | all | |
| recalculate | Query | If true, trigger a recalculation | false | boolean | all | false |
| | -body- | The group definition to use for the update. This is required if recalculate is false. | | GroupDefinitionRest | -all- | -none- |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 404 | Group with the passed id does not exist |
| 406 | Passed expression was empty |
| 406 | Recalculation interval is < 0 |
| 406 | Group membership calculation failed |

1.7. HTTP://LOCALHOST:7080/REST/METRIC : DEAL WITH METRICS

This part of the API deals with exporting and adding metrics

Defining class: org.rhq.enterprise.server.rest.MetricHandlerBean

Produces: application/json, application/xml, text/html

Methods

- **GET /metric/data/{scheduleId}**

Description

Get the bucketized metric values for the schedule.

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|------------------------------------|----------|---------|----------------|---------------|
| scheduleId | Path | Schedule Id of the values to query | true | int | all | |
| startTime | Query | Start time since epoch. | false | long | all | End time - 8h |
| endTime | Query | End time since epoch. | false | long | all | Now |
| dataPoints | Query | Number of buckets | false | int | all | 60 |
| hideEmpty | Query | Hide rows that are NaN only | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |

- **GET /metric/data/group/{groupId}/{definitionId}**

Description

Get the bucketized metric values for the metric definition of the group

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|--------------|--------|---|----------|---------|----------------|---------------|
| groupId | Path | Id of the group to query | true | int | all | |
| definitionId | Path | Id of the metric definition to retrieve | true | int | all | |
| startTime | Query | Start time since epoch. | false | long | all | End time - 8h |
| endTime | Query | End time since epoch. | false | long | all | Now |
| dataPoints | Query | Number of buckets | false | int | all | 60 |
| hideEmpty | Query | Hide rows that are NaN only | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

- **GET /metric/data**

Description

Return bucketized metric data (60 points) for the passed schedules

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|------------|-------|--|-------|---------|-----|-------|
| sid | Query | A comma separated list of schedule ids | true | String | all | |
| startTime | Query | Start time in ms since epoch. Default is now -8h | false | long | all | |
| endTime | Query | End time in ms since epoch. Default is now | false | long | all | |
| dataPoints | Query | Number of buckets | false | int | all | 60 |
| hideEmpty | Query | Should empty datapoints be hidden | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |
| 406 | No schedules requested |
| 406 | Schedule Ids are not numeric |

- **GET /metric/schedule/{id}**

Description

Get the metric schedule for the passed id

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|----|------|-------------|------|-----|-----|--|
| id | Path | Schedule Id | true | int | all | |
|----|------|-------------|------|-----|-----|--|

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |

- **GET /metric/data/resource/{resourceId}**

Description

Retrieve a list of high/low/average/data aggregates for the resource

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|-------------------|--------|--|----------|---------|----------------|---------------|
| resourceId | Path | Id of the resource to query | true | int | all | |
| startTime | Query | Start time since epoch. | false | long | all | End time - 8h |
| endTime | Query | End time since epoch. | false | long | all | Now |
| includeDataPoints | Query | Include data points | false | boolean | all | false |
| dataPoints | Query | Number of buckets (if include data points) | false | int | all | 60 |
| hideEmpty | Query | Hide rows that are NaN only | false | boolean | all | false |

Return type: [List<MetricAggregate>](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | If no resource with the passed id exists |

- **GET /metric/data/group/{groupId}**

Description

Retrieve a list of high/low/average/data aggregates for the group

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|-----------|--------|--------------------------|----------|------|----------------|---------------|
| groupId | Path | Id of the group to query | true | int | all | |
| startTime | Query | Start time since epoch. | false | long | all | End time - 8h |
| endTime | Query | End time since epoch. | false | long | all | Now |

Return type: [List<MetricDefinitionAggregate>](#)

Error codes:

| Code | Reason |
|------|--------------------------------------|
| 404 | There is no group with the passed id |

- **PUT /metric/schedule/{id}**

Description

Update the schedule (enabled, interval)

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|----|--------|------------------------------|------|--------------------------------|-----|--|
| id | Path | Id of the schedule to update | true | int | all | |
| | -body- | New schedule data | true | MetricSchedule | all | |

Return type: [MetricSchedule](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |

- **GET /metric/definition/{id}**

Description

Get the definition

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------------------|----------|------|----------------|---------------|
| id | Path | Id of the definition to obtain | true | int | all | |

Return type: [MetricSchedule](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | No definition exists for the given id. |

- **PUT /metric/definition/{id}**

Description

Update the definition (default enabled, default interval)

Notes

This operation may internally take a long time to complete and is thus only triggered by this call. A return code of 200 only indicates that the operation was successfully submitted.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------------|--------|--|----------|--------------------------------|----------------|---------------|
| id | Path | Id of the definition to update | true | int | all | |
| | -body- | New definition data | true | MetricSchedule | all | |
| updateExisting | Query | Update existing schedules for this definition as well? | false | boolean | all | false |

Return type: [MetricSchedule](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | No definition exists for the given id. |

- **GET /metric/data/{scheduleId}/raw**

Description

Expose the raw metrics of a single schedule. This can only expose raw data, which means the start date may not be older than 7 days.

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|------------------------|----------|------|----------------|---------------|
| scheduleId | Path | <i>none</i> | true | int | all | |
| startTime | Query | Start time since epoch | false | long | all | Now - 8h |
| endTime | Query | End time since epoch | false | long | all | Now |

| | | | | | | |
|----------|-------|----------------|-------|------|-----|------------------|
| duration | Query | Timespan in ms | false | long | all | 8h = 28800000 ms |
|----------|-------|----------------|-------|------|-----|------------------|

Return type: [javax.ws.rs.core.StreamingOutput](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |

- **GET /metric/data/{scheduleId}/callTime**

Description

Expose callTime data for given scheduleId

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|--|----------|---------|----------------|---------------|
| scheduleId | Path | <i>none</i> | true | int | all | |
| startTime | Query | Start time since epoch | false | long | all | Now - 8h |
| endTime | Query | End time since epoch | false | long | all | Now |
| aggregate | Query | True to return callTimes aggregated by callDestination | false | boolean | all | true |

Return type: [javax.ws.rs.core.StreamingOutput](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |

- **PUT /metric/data/{scheduleId}/callTime**

Description

Submit a callTime metrics to the server

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|------------------------------------|----------|---|----------------|---------------|
| scheduleId | Path | Id of the schedule | true | int | all | |
| | -body- | A list of call time values to add. | true | List<CallTimeValueRest> | -all- | -none- |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |
| 406 | beginTime is older than 7 days |
| 406 | callDestination is null |
| 406 | duration is negative number |

- **PUT /metric/data/{scheduleId}/raw/{timeStamp}**

Description

Submit a single (numerical) metric to the server

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|-------------------------|----------|-----------------------------|----------------|---------------|
| scheduleId | Path | Id of the schedule | true | int | all | |
| timeStamp | Path | Timestamp of the metric | true | long | all | |
| | -body- | Data value | true | DoubleValue | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |
| 406 | Timestamp is older than 7 days |

- **PUT /metric/data/{scheduleId}/trait/{timeStamp}**

Description

Submit a new trait value for the passed schedule id

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|-------------------------|----------|-----------------------------|----------------|---------------|
| scheduleId | Path | Id of the schedule | true | int | all | |
| timeStamp | Path | Timestamp of the metric | true | long | all | |
| | -body- | Data value | true | StringValue | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |
| 406 | Timestamp is older than 7 days |

- **GET /metric/data/{scheduleId}/trait**

Description

Get the current value of the trait with the passed schedule id

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|------------|------|--------------------|------|-----|-----|--|
| scheduleId | Path | Id of the schedule | true | int | all | |
|------------|------|--------------------|------|-----|-----|--|

Return type: [StringValue](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |

- **POST /metric/data/raw**

Description

Submit a series of (numerical) metric values to the server

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|---|----------|---|----------------|---------------|
| | -body- | A collection of numeric data point values with their schedule id set. | true | Collection <Numeric DataPoint > | -all- | -none- |

Return type: No response

Error codes:

| Code | Reason |
|------|---|
| 201 | There are some submitted datapoints with non-existing scheduleId, API returns rejected values back to client, valid values are accepted |
| 403 | All submitted datapoints have non-existing scheduleId, API returns rejected values back to client |

- **POST /metric/data/raw/{resourceId}**

Description

Submit a series of (numerical) metric values for a single resource to the server

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|--|----------|---|----------------|---------------|
| resourceId | Path | <i>none</i> | | int | -all- | -none- |
| | -body- | A collection of numeric data point values with their metric definition name set. | true | Collection <Numeric DataPoint > | -all- | -none- |

Return type: No response

Error codes:

| Code | Reason |
|------|---|
| 403 | Any metric from received dataPoints does not exist for given resource |

- **GET /metric/data/{scheduleId}/baseline**

Description

Get the current baseline for the schedule

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|--------------------|----------|------|----------------|---------------|
| scheduleId | Path | Id of the schedule | true | int | all | |

Return type: [Baseline](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |

- **PUT /metric/data/{scheduleId}/baseline**

Description

Set a new baseline for the schedule

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|---------------------|----------|----------|----------------|---------------|
| scheduleId | Path | Id of the schedule | true | int | all | |
| | -body- | The baseline value. | true | Baseline | -all- | -none- |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---------------------------------------|
| 404 | No schedule with the passed id exists |
| 406 | Baseline data is incorrect |

1.8. HTTP://LOCALHOST:7080/REST/OPERATION : ENDPOINTS FOR OPERATIONS.

These endpoints deal with scheduling of operations and retrieval of operation results.

Defining class: org.rhq.enterprise.server.rest.OperationsHandlerBean

Produces: application/json, application/xml

Methods

- **GET /operation/definition/{id}**

Description

Retrieve a single operation definition by its id

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|------------|-------|---|-------|---------|-----|--|
| id | Path | Id of the definition to retrieve | true | int | all | |
| resourceId | Query | Id of a resource that supports this operation | false | Integer | all | |

Return type: [javax.ws.rs.core.Response](#)

- **GET /operation/definitions**

Description

List all operation definitions for a resource

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|--------------------|----------|---------|----------------|---------------|
| resourceId | Query | Id of the resource | true | Integer | all | |

Return type: [javax.ws.rs.core.Response](#)

- **POST /operation/definition/{id}**

Description

Create a new (draft) operation from the passed definition id for the passed resource

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|----------------------|----------|---------|----------------|---------------|
| id | Path | Id of the definition | true | int | all | |
| resourceId | Query | Id of the resource | true | Integer | all | |

Return type: [javax.ws.rs.core.Response](#)

- **GET /operation/{id}**

Description

Description

Return a (draft) operation

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|---------------------------------|----------|------|----------------|---------------|
| id | Path | Id of the operation to retrieve | true | int | all | |

Return type: [javax.ws.rs.core.Response](#)

- **PUT /operation/{id}**

Description

Update a (draft) operation. If the state is set to 'ready', the operation will be scheduled

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|---|----------|--------------------------------|----------------|---------------|
| id | Path | Id of the operation to update | true | int | all | |
| | -body- | The operation definition to use for the update. | true | Operation Rest | -all- | -none- |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | No draft operation with the passed id exists |
| 406 | Draft was set for scheduling, but parameters failed validation |
| 200 | Update was successful, operation was scheduled if requested |

- **DELETE /operation/{id}**

Description

Delete a (draft) operation

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------------------------|----------|------|----------------|---------------|
| id | Path | Id of the operation to remove | true | int | all | |

Return type: [javax.ws.rs.core.Response](#)

- **GET /operation/history/{id}**

Description

Return the outcome of the scheduled operation

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|----------------------------|----------|--------|----------------|---------------|
| id | Path | Name of the submitted job. | true | String | all | |

Return type: [javax.ws.rs.core.Response](#)

- **GET /operation/history**

Description

Return the outcome of the executed operations for a resource

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|------------------------------|----------|------|----------------|---------------|
| resourceId | Query | Id of a resource to limit to | false | int | all | |

| | | | | | | |
|------|-------|--------------------------|-------|---------|-----|----|
| ps | Query | Page size for paging | false | int | all | 20 |
| page | Query | Page for paging, 0-based | false | Integer | all | |

Return type: [javax.ws.rs.core.Response](#)

- **DELETE /operation/history/{id}**

Description

Delete the operation history item with the passed id

Notes

This operation is by default idempotent, returning 204. If you want to check if the job existed at all, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|----------------------------|----------|---------|----------------|---------------|
| id | Path | Name for the submitted job | true | String | all | |
| validate | Query | Validate if the job exists | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 204 | Item was deleted or did not exist with validation not set |
| 404 | Item did not exist and validate was set |
| 406 | Passed Job ID did not pass name validation |

1.9. HTTP://LOCALHOST:7080/REST/PLUGINS : PLUGIN RELATED

This endpoint deals with RHQ's plugins

Defining class: org.rhq.enterprise.server.rest.PluginHandlerBean

Produces: application/json, application/xml

Methods

- **GET /plugins**

Description

Looks for the plugins currently present in the system, optionally reloading them from the server's filesystem

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|---------|--------|--|----------|---------|----------------|---------------|
| name | Query | <i>none</i> | | String | <i>-all-</i> | <i>-none-</i> |
| enabled | Query | Look for enabled, disabled or both kinds of plugins? | false | Boolean | all | |
| version | Query | The version of the plugin to look for | false | String | all | |
| deleted | Query | Whether to look for deleted, installed or both plugins | false | Boolean | all | false |

| | | | | | | |
|--------|-------|--|-------|---------|-----|----|
| reload | Query | Whether to reload the plugins from the filesystem before performing the search. This can be used to take into effect the plugins that have been manually put into server's plugin "dropbox" directory. | false | boolean | all | |
| ps | Query | Page size for paging | false | int | all | 20 |
| page | Query | Page for paging, 0-based | false | Integer | all | |

Return type: [javax.ws.rs.core.Response](#)

- **GET /plugins/{id}**

Description

Gets info about a single plugin

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|----------------------|----------|------|----------------|---------------|
| id | Path | The id of the plugin | true | int | all | |

Return type: [javax.ws.rs.core.Response](#)

- **PUT /plugins/{id}**

Description

Updates the enablement of a plugin.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|---------|--------|--|----------|---------|----------------|---------------|
| id | Path | The id of the plugin | true | int | all | |
| enabled | Query | true means plugin is enabled, false means plugin is disabled | false | boolean | all | |

Return type: [javax.ws.rs.core.Response](#)

- **DELETE /plugins/{id}**

Description

Deletes a single plugin, optionally purging it.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|----------------------|----------|------|----------------|---------------|
| id | Path | The id of the plugin | true | int | all | |

Return type: [javax.ws.rs.core.Response](#)

- **POST /plugins**

Description

Puts the plugin provided using a content handle into a dropbox and scans the dropbox for changes. In another words, this can result in more than just the provided plugin to become registered in the server if there were some unregistered plugins waiting in the dropbox directory. The content identified by the handle is NOT deleted afterwards.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|--------|-------|----------------------------------|-------|--------|-----|--|
| handle | Query | The handle retrieved from upload | false | String | all | |
| name | Query | Name of the plugin file | false | String | all | |

Return type: [javax.ws.rs.core.Response](#)

- **POST /plugins/deploy**

Description

Pushes out all the enabled plugins to all the agents running at that point in time. Defaults to start that process immediately. The returned string is a handle that can be used to check whether all the agents received the updated plugins.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|-------|--------|--|----------|------|----------------|---------------|
| delay | Query | The delay in milliseconds before triggering the update on the agents | false | long | all | 0 |

Return type: [javax.ws.rs.core.Response](#)

- **GET /plugins/deploy/{handle}**

Description

Checks whether the deployment to the agents identified by the provided handle has finished or not.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|--------|--------|-------------------|----------|--------|----------------|---------------|
| handle | Path | The deploy handle | true | String | all | |

Return type: [javax.ws.rs.core.Response](#)

1.10. HTTP://LOCALHOST:7080/REST/REPORTS : PROVIDE THE REPORTS THAT ARE ALSO RUN FROM THE REPORTS SECTION OF THE UI. ALL REPORTS ARE ONLY AVAILABLE IN CSV FORMAT

Defining class: `org.rhq.enterprise.server.rest.ReportsHandlerBean`

Produces: `text/csv`

Methods

- **GET /reports**

Description

List the available reports

This method has no parameters

Return type: `String` (multi)

- **GET /reports/alertDefinitions**

Description

Export the AlertDefinitions as CSV

Supports returning a gzip'ed Content-Encoding

This method has no parameters

Return type: `String` (multi)

- **GET /reports/configurationHistory**

Description

Export the Configuration History data as CSV

Supports returning a gzip'ed Content-Encoding

This method has no parameters

Return type: `String` (multi)

- **GET /reports/driftCompliance**

Description

Export the drift compliance data

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|--------------|--------|-------------|----------|--------|----------------|---------------|
| resourceType | Query | none | | String | -all- | -none- |
| version | Query | none | | String | -all- | -none- |

Return type: String (multi)

- **GET /reports/inventorySummary**

Description

Export the Inventory Summary data as CSV

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|--------------|--------|-------------|----------|--------|----------------|---------------|
| resourceType | Query | none | | String | -all- | -none- |
| version | Query | none | | String | -all- | -none- |

Return type: String (multi)

- **GET /reports/platformUtilization**

Description

Export the Platform utilization data as CSV

Supports returning a gzip'ed Content-Encoding

This method has no parameters

Return type: String (multi)

- **GET /reports/recentAlerts**

Description

Export the Recent Alert data as CSV

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|---------------|-------|-------------|--|--------|-------|-----------------|
| alertPriority | Query | <i>none</i> | | String | -all- | high,medium,low |
| startTime | Query | <i>none</i> | | Long | -all- | -none- |
| endTime | Query | <i>none</i> | | Long | -all- | -none- |

Return type: String (multi)

- **GET /reports/recentDrift**

Description

Export the Recent drift data as CSV

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------------|--------|-------------------------------|----------|---------|--|---------------|
| categories | Query | Drift categories to report on | false | String | FILE_ADDED, FILE_CHANGED, FILE_REMOVED | |
| snapshot | Query | <i>none</i> | | Integer | -all- | -none- |
| path | Query | <i>none</i> | | String | -all- | -none- |
| definition | Query | <i>none</i> | | String | -all- | -none- |
| startTime | Query | <i>none</i> | | Long | -all- | -none- |
| endTime | Query | <i>none</i> | | Long | -all- | -none- |

Return type: String (multi)

Error codes:

| Code | Reason |
|------|---|
| 404 | If no category is provided or the category is wrong |

- **GET /reports/recentOperations**

Description

Export the Recent Operations Data as CSV

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|-----------|--------|---|----------|--------|----------------|-------------------------------------|
| status | Query | Status to look for. If parameter is not given, all values are used | false | String | all | inprogress,success,failure,canceled |
| startTime | Query | The start time in ms since epoch of the time range to export. | false | Long | all | |
| endTime | Query | The end time in ms since epoch of the time range to export. Defaults to 'now' if only the start time is given | false | Long | all | |

Return type: String (multi)

- **GET /reports/suspectMetrics**

Description

Export the Suspect Metrics data as CSV

Supports returning a gzip'ed Content-Encoding

This method has no parameters

Return type: String (multi)

1.11. HTTP://LOCALHOST:7080/REST/RESOURCE : RESOURCE RELATED

This endpoint deals with individual resources, not resource groups

Defining class: org.rhq.enterprise.server.rest.ResourceHandlerBean

Produces: application/json, application/xml, text/html, application/vnd.rhq.wrapped+json

Methods

- **GET /resource/{id:\d+ }**

Description

Retrieve a single resource

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------------------|----------|------|----------------|---------------|
| id | Path | Id of the resource to retrieve | true | int | all | |

Return type: [ResourceWithType](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | If no resource with the passed id exists |

- **PUT /resource/{id:\d+ }**

Description

Update a single resource or import a new resource from the discovery queue.

Notes

You can either update a resource that is already in inventory, in which case the fieldsname, description and location can be updated. Or you can import a Platform or Server resource that is in state NEW.To do this you need to PUT the resource retrieved with a COMMITTED state

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|----|--------|------------------------------|------|----------------------------------|-----|--|
| id | Path | Id of the resource to import | true | int | all | |
| | -body- | Resource to update | true | ResourceWithType | all | |

Return type: [ResourceWithType](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | If no resource with the passed id exists |
| 406 | Tried to update a resource that is not COMMITTED |

- **GET /resource/search**

Description

Search for resources based on query parameters

Notes

You can use any parameters based on `org.rhq.core.domain.criteria.ResourceCriteria#addFilter*`, , but note that only one value is passed to filter method (even if it may support multiple values). For example parameter `name=value` transforms to `ResourceCriteria#addFilterName(value)`, parameter `pluginName=value` transforms to `ResourceCriteria#addFilterPluginName(value)`. For some parameter names, following are equivalent : `status=inventoryStatus`, `availability=currentAvailability`, `category=resourceCategories`, `plugin=pluginName`, `parentId=parentResourceId`, `parentName=parentResourceName`, `type=resourceTypeName`. For example, to find all running AS7 Standalone Servers on a platform do `GET /resource/search?parentId=10001&type=JBossAS7 Standalone Server&availability=UP`

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------------|----------|---------|----------------|---------------|
| ps | Query | Page size for paging | false | int | all | 20 |
| page | Query | Page for paging, 0-based | false | Integer | all | 0 |

| | | | | | | |
|--------|-------|-------------------------|-------|---------|-----|-------|
| strict | Query | Enable strict filtering | false | boolean | all | false |
|--------|-------|-------------------------|-------|---------|-----|-------|

Return type: [ResourceWithType](#)

Error codes:

| Code | Reason |
|------|---|
| 406 | The passed inventory status was invalid |

- **GET /resource**

Description

Search for resources by the given search string, possibly limited by category and paged

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|---|----------|---------|----------------|---------------|
| q | Query | Limit results to param in the resource name | false | String | all | |
| category | Query | Limit to category (PLATFORM, SERVER, SERVICE) | false | String | all | |
| ps | Query | Page size for paging | false | int | all | 20 |
| page | Query | Page for paging, 0-based | false | Integer | all | 0 |

| | | | | | | |
|--------|-------|--|-------|--------|--|-----------|
| status | Query | Limit to Inventory status of the resources | false | String | ALL, NEW, IGNORED, COMMITTED, DELETED, UNINVENTORIED | COMMITTED |
|--------|-------|--|-------|--------|--|-----------|

Return type: [ResourceWithType](#)

Error codes:

| Code | Reason |
|------|---|
| 406 | The passed inventory status was invalid |

- **GET /resource/platforms**

Description

List all platforms in the system

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------------|----------|---------|----------------|---------------|
| ps | Query | Page size for paging | false | int | all | 20 |
| page | Query | Page for paging, 0-based | false | Integer | all | 0 |

Return type: [ResourceWithType \(multi\)](#)

- **GET /resource/{id}/hierarchy**

Description

Retrieve the hierarchy of resources starting with the passed one

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|----|------|----------------------------------|------|-----|-----|--|
| id | Path | Id of the resource to start with | true | int | all | |
|----|------|----------------------------------|------|-----|-----|--|

Return type: [ResourceWithType \(multi\)](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | If no resource with the passed id exists |

- **GET /resource/{id}/availability**

Description

Return the current availability for the passed resource

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-----------------------------|----------|------|----------------|---------------|
| id | Path | Id of the resource to query | true | int | all | |

Return type: [AvailabilityRest](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | If no resource with the passed id exists |

- **GET /resource/{id}/availability/history**

Description

Return the availability history for the passed resource

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-----------------------------|----------|------|----------------|---------------|
| id | Path | Id of the resource to query | true | int | all | |

| | | | | | | |
|-------|-------|------------|-------|------|-----|-------------|
| start | Query | Start time | false | long | all | 30 days ago |
| end | Query | End time | false | long | all | Now |

Return type: [AvailabilityRest \(multi\)](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | If no resource with the passed id exists |

- **GET /resource/{id}/availability/summary**

Description

Return the availability history for the passed resource

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-----------------------------|----------|------|----------------|---------------|
| id | Path | Id of the resource to query | true | int | all | |

Return type: [AvailabilitySummary](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | If no resource with the passed id exists |

- **PUT /resource/{id}/availability**

Description

Set the current availability of the passed resource

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|------------------------------|----------|------|----------------|---------------|
| id | Path | Id of the resource to update | true | int | all | |

| | | | | | | |
|--|--------|--------------------------|------|------------------|-----|--|
| | -body- | New Availability setting | true | AvailabilityRest | all | |
|--|--------|--------------------------|------|------------------|-----|--|

Return type: void

- **GET /resource/{id}/schedules**

Description

Get the metric schedules of the passed resource id

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|-------------|--------|--|----------|---------|--|---------------|
| id | Path | Id of the resource to obtain the schedules for | true | int | all | |
| type | Query | Limit by type | false | String | <empty>, all, metric, trait, measurement | all |
| enabledOnly | Query | Limit by enabled schedules | false | boolean | all | true |
| name | Query | Limit by name | false | String | all | |

Return type: [MetricSchedule](#) (multi)

Error codes:

| Code | Reason |
|------|--|
| 404 | If no resource with the passed id exists |

- **GET /resource/{id}/children**

Description

Get the direct children of the passed resource

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|---|----------|---------|--|---------------|
| id | Path | Id of the resource to get children | true | int | all | |
| ps | Query | Page size for paging | false | int | all | 20 |
| page | Query | Page for paging, 0-based | false | Integer | all | 0 |
| q | Query | Limit results to param in the resource name | false | String | all | |
| category | Query | Limit to category (PLATFORM, SERVER, SERVICE) | false | String | all | |
| status | Query | Limit to Inventory status of the resources | false | String | ALL, NEW, IGNORED, COMMITTED, DELETED, UNINVENTORIED | COMMITTED |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | If no resource with the passed id exists |

- **GET /resource/{id}/alerts**

Description

Get a list of links to the alerts for the passed resource

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-----------------------------|----------|------|----------------|---------------|
| id | Path | Id of the resource to query | true | int | all | |

Return type: [List<Link>](#)

Error codes:

| Code | Reason |
|------|--|
| 404 | If no resource with the passed id exists |

• **POST /resource/platform/{name}**

Description

Create a new platform in the Server. If the platform already exists, this is a no-op. The platform internally has a special name so that it will not clash with one that was generated via a normal RHQ agent. DEPRECATED Use POST /platforms instead

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|----------------------|----------|-----------------------------|-----------------------------|---------------|
| name | Path | Name of the platform | true | String | all | |
| | -body- | Type of the platform | true | StringValue | Linux, Windows, ... TODO | |

Return type: [javax.ws.rs.core.Response](#)

• **POST /resource/platforms**

Description

Create a new platform in the Server. If the platform already exists, this is a no-op. The platform internally has a special name so that it will not clash with one that was generated via a normal RHQ agent. Only resourceName and typeName need to be supplied in the passed object

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|---|----------|-----------------------------------|----------------|---------------|
| | -body- | The info about the platform. Only type name and resource name need to be supplied | true | Resource WithType | all | |

Return type: [javax.ws.rs.core.Response](#)

- **POST /resource/{name}**

Description

Create a resource with a given type below a certain parent. DEPRECATED Use POST / instead

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|---|----------|-----------------------------|----------------|---------------|
| name | Path | Name of the new resource | true | String | all | |
| | -body- | Name of the Resource type | true | StringValue | all | |
| plugin | Query | Name of the plugin providing the type | false | String | all | |
| parentId | Query | Id of the future parent to attach this to | false | int | all | |

Return type: [javax.ws.rs.core.Response](#)

- **POST /resource**

Description

Create a new resource as a child of an existing resource.

Notes

If a handle is given, a content based resource is created; the content identified by the handle is not removed from the content store. If no handle is given, a resource is created from the data of the passed 'resource' object.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|--------|--------|--|----------|---------------------------|----------------|---------------|
| | -body- | The info about the resource. You need to supply resource name, resource type name, plugin name, id of the parent | true | CreateCB Resource Request | all | |
| handle | Query | A handle that identifies content that has been uploaded to the server before. | false | String | all | |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 302 | Creation is still happening. Check back with a GET on the Location. |

- **GET /resource/creationStatus/{id}**

Description

Get the status of a resource creation for content based resources.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
| id | Path | <i>none</i> | | int | -all- | -none- |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 302 | Creation is still going on. Check back later with the same URL. |

- **DELETE /resource/{id}**

Description

Remove a resource from inventory

Notes

This operation is by default idempotent, returning 204. If you want to check if the resource existed at all, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|-----------------------------------|----------|---------|----------------|---------------|
| id | Path | <i>none</i> | | int | -all- | -none- |
| physical | Query | <i>none</i> | false | boolean | all | false |
| validate | Query | Validate that the resource exists | false | boolean | all | false |

Return type: [javax.ws.rs.core.Response](#)

Error codes:

| Code | Reason |
|------|---|
| 204 | Resource was removed or did not exist with validation not set |
| 404 | Resource did not exist and validate was set |

1.12. HTTP://LOCALHOST:7080/REST/RESOURCE/TYPE : RESOURCE TYPE RELATED

This endpoint deals with resource types

Defining class: org.rhq.enterprise.server.rest.ResourceTypeHandlerBean

Produces: application/json, application/xml

Methods

- **GET /resource/type/{id}**

Description

Return information about the resource type with the passed id

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
| id | Path | none | | int | -all- | -none- |

Return type: [ResourceTypeRest](#)

Error codes:

| Code | Reason |
|------|-------------------------------------|
| 404 | There is no type with the passed id |

- **GET /resource/type**

Description

Search for resource types

Supports returning a gzip'ed Content-Encoding

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--|----------|--------|----------------|---------------|
| q | Query | Limit results to param in the resource type name | false | String | all | |

| | | | | | | |
|--------|-------|--|-------|---------|-----|----|
| plugin | Query | Limit results to the plugin with the passed name | false | String | all | |
| ps | Query | Page size for paging | false | int | all | 20 |
| page | Query | Page for paging, 0-based | false | Integer | all | |

Return type: [ResourceTypeRest](#) (multi)

1.13. HTTP://LOCALHOST:7080/REST/STATUS : PROVIDE SYSTEM STATUS INFORMATION

Defining class: org.rhq.enterprise.server.rest.StatusHandlerBean

Produces: application/json, application/xml, text/html

Methods

- **GET /status**

Description

Retrieve the current configured state of the server along with some runtime information. Caller must have `MANAGE_SETTINGS` to access this endpoint.

Supports returning a gzip'ed Content-Encoding

This method has no parameters

Return type: Map 'values' with map of key-value pairs describing the status

- **GET /status/server**

Description

Get the operation mode of this server

This method has no parameters

Return type: [StringValue](#)

1.14. HTTP://LOCALHOST:7080/REST/USER : API THAT DEALS WITH USER RELATED STUFF

Defining class: org.rhq.enterprise.server.rest.UserHandlerBean

Produces: application/json, application/xml, text/plain, text/html

Methods

- **GET /user/favorites/resource**

Description

Return a list of favorite resources of the caller

Supports returning a gzip'ed Content-Encoding

This method has no parameters

Return type: [ResourceWithType \(multi\)](#)

- **GET /user/favorites/group**

Description

Return a list of favorite groups of the caller

Supports returning a gzip'ed Content-Encoding

This method has no parameters

Return type: [GroupRest \(multi\)](#)

- **PUT /user/favorites/resource/{id}**

Description

Add a resource as favorite for the caller

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|--------------------|----------|------|----------------|---------------|
| id | Path | Id of the resource | true | int | all | |

Return type: void

- **PUT /user/favorites/group/{id}**

Description

Add a group as favorite for the caller

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-----------------|----------|------|----------------|---------------|
| id | Path | Id of the group | true | int | all | |

Return type: void

- **DELETE /user/favorites/resource/{id}**

Description

Remove a resource from favorites

Notes

This operation is by default idempotent, returning 204. If you want to check if the resource was a favorite, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|----------|--------|--|----------|---------|----------------|---------------|
| id | Path | Id of the resource | true | int | all | |
| validate | Query | Validate if the resource is a favorite | false | boolean | all | false |

Return type: void

Error codes:

| Code | Reason |
|------|---|
| 204 | Resource was removed or was no favorite with validation not set |
| 404 | Resource was no favorite and validate was set |

- **DELETE /user/favorites/group/{id}**

Description

Remove a group from favorites

Notes

This operation is by default idempotent, returning 204. If you want to check if the group was a favorite, you need to pass the 'validate' query parameter.

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------|----------|------|----------------|---------------|
|------|--------|-------------|----------|------|----------------|---------------|

| | | | | | | |
|----------|-------|-------------------------------------|-------|---------|-----|-------|
| id | Path | Id of the group | true | int | all | |
| validate | Query | Validate if the group is a favorite | false | boolean | all | false |

Return type: void

Error codes:

| Code | Reason |
|------|--|
| 204 | Group was removed or was no favorite with validation not set |
| 404 | Group was no favorite and validate was set |

- **GET /user/{id}**

Description

Get info about a user

Parameters:

| Name | P.Type | Description | Required | Type | Allowed values | Default value |
|------|--------|-------------------|----------|--------|----------------|---------------|
| id | Path | Login of the user | true | String | all | |

Return type: [UserRest](#)

CHAPTER 2. REST API DATA CLASSES

2.1. DATA-CLASS: ALERTCONDITIONREST

One condition for an alert definition

Properties

| Name | Type | Description |
|-----------------------|---------|--|
| name | String | Comparator to use with this definition. See POST <code>/alert/definition/{id}/condition</code> for details. |
| category | String | The category. See POST <code>/alert/definition/{id}/condition</code> for details. |
| id | int | Id of the condition. Note that this is not stable - when you update the condition, its id will change |
| threshold | Double | The threshold to compare against. See POST <code>/alert/definition/{id}/condition</code> for details. |
| option | String | Options to this condition. Depends on the category used. See POST <code>/alert/definition/{id}/condition</code> for details. |
| triggerId | Integer | |
| comparator | String | Comparator for conditions. See POST <code>/alert/definition/{id}/condition</code> for details. |
| measurementDefinition | int | The id of the measurement <i>*definition*</i> , this comparator should apply to. A metric schedule can be identified by a resource id and a definition id. |

2.2. DATA-CLASS: ALERTDEFINITIONREST

Representation of an AlertDefinition

Properties

| Name | Type | Description |
|-------------------|-----------------------------|--|
| id | int | The id of the definition |
| name | String | The name of the definition |
| enabled | boolean | Is the definition enabled(=active)? |
| priority | String | The priority of the definition |
| recoveryId | int | Id of an alert definition to recover |
| conditionMode | String | Expression to use for condition logic |
| conditions | List<AlertConditionRest> | List of Conditions. Only sent if explicitly requested. |
| notifications | List<AlertNotificationRest> | List of notifications. Only sent if explicitly requested. |
| dampeningCategory | String | Category for dampening. ONCE means 'disable definition after firing' |
| dampeningCount | int | Number of occurrences of an alert (in a given period). Valid values are > -1 |
| dampeningPeriod | int | Period to check events. Only applicable for PARTIAL_COUNT, DURATION_COUNT, INVERSE_COUNT |
| dampeningUnit | String | Unit of the dampening period. |
| links | List<Link> | |

2.3. DATA-CLASS: ALERTNOTIFICATIONREST**Represents an alert notification definition**

Properties

| Name | Type | Description |
|------|------|-------------|
|------|------|-------------|

| | | |
|-------------|--------------------|--|
| id | int | Id of the definition. This will change if the notification is updated. |
| senderName | String | A name taken from the <short-name> field of the plugin descriptor |
| config | Map<String,Object> | Configuration that needs to be passed to the definition. |
| extraConfig | Map<String,Object> | |

2.4. DATA-CLASS: ALERTREST

This class represents a single fired alert.

Properties

| Name | Type | Description |
|-------------------|---------------------|---|
| id | int | The id of the alert |
| name | String | Name of the alert, taken from the AlertDefinition |
| alertDefinition | AlertDefinitionRest | AlertDefinition from which the alert was fired |
| definitionEnabled | boolean | Is the definition enabled (=active)? |
| ackBy | String | The user that acknowledged the alert (if any) |
| ackTime | long | Timestamp of the acknowledgement |
| alertTime | long | Timestamp when the alert has been fired |
| description | String | Description of the alert |
| resource | ResourceWithType | The resource on which the alert was fired |
| links | List<Link> | |

2.5. DATA-CLASS: ALERTSENDER

Properties

| Name | Type | Description |
|------------------|--------------------|---|
| senderName | String | Name of the alert sender - this is also its unique identifier |
| description | String | A description of this sender |
| link | Link | |
| configDefinition | Map<String,String> | The configuration definition of the sender |

2.6. DATA-CLASS: AVAILABILITYREST**Represents the availability of a resource**

Properties

| Name | Type | Description |
|------------|--------|--|
| since | long | Time since the type is valid |
| type | String | Type of availability |
| resourceId | int | Id of the resource that reports the availability |
| until | Long | Time until the type is valid. May be null if type is ongoing |

2.7. DATA-CLASS: AVAILABILITYSUMMARY**Describes the availability summary for a resource**

Properties

| Name | Type | Description |
|--------------|--|-------------|
| current | org.rhq.core.domain.measurement.AvailabilityType | |
| disabled | int | |
| disabledTime | long | |
| downTime | long | |
| failures | int | |

| | | |
|--------------------|------------|--|
| lastChange | long | |
| links | List<Link> | |
| currentTime | long | |
| resourceId | int | |
| unknownTime | long | |
| upTime | long | |
| disabledPercentage | double | |
| downPercentage | double | |
| knownTime | long | |
| mtbf | long | |
| mttr | long | |
| upPercentage | double | |

2.8. DATA-CLASS: BASELINE

Representation of a metric baseline/-band

Properties

| Name | Type | Description |
|-------------|--------|--|
| min | double | The lower value of the base band |
| max | double | The higher value of the base band |
| mean | double | The baseline value (i.e. the average of the metrics) |
| computeTime | long | Time this value was computed |

2.9. DATA-CLASS: CALLTIMEVALUEREST

One callTime data point of a metric (aka schedule)

Properties

| Name | Type | Description |
|-----------------|--------|--|
| beginTime | long | Time in milliseconds since epoch when the request occurred |
| callDestination | String | Destination URI of request |
| duration | long | Time in milliseconds - duration of request |

2.10. DATA-CLASS: CREATECBRESOURCEREQUEST

A request to create a content-based resource. For this to work, it is required that the content to be deployed is already uploaded to the server.

Properties

| Name | Type | Description |
|----------------|--------------------|---|
| pluginConfig | Map<String,Object> | The configuration of the connection properties |
| resourceConfig | Map<String,Object> | The configuration of the resource to be created |

2.11. DATA-CLASS: DOUBLEVALUE

Encapsulates a simple double value. In XML this is represented as `<value value="..."/>`

Properties

| Name | Type | Description |
|-------|--------|------------------|
| value | Double | The actual value |

2.12. DATA-CLASS: EVENTDEFINITIONREST

An Event definition

Description: You can retrieve an EventDefinition and with its name create new EventSources for that resource

Properties

| Name | Type | Description |
|------|------|-------------|
| id | int | |

| | | |
|-------------|--------|---|
| name | String | The name of the definition, used to create EventSources |
| displayName | String | |
| description | String | |

2.13. DATA-CLASS: EVENTREST

This class represents one event.

Properties

| Name | Type | Description |
|-----------|--------|---|
| id | int | RHQ-Internal Id of the event |
| detail | String | The message to be transmitted |
| sourceId | int | Id of the source on retrieval. When adding new events, this parameter is ignored. |
| timestamp | long | Time in milliseconds since epoch when the event occurred |
| severity | String | Severity of the event. Allowed values are DEBUG, INFO, WARN, ERROR, FATAL |

2.14. DATA-CLASS: EVENTSOURCEREST

This class represents an EventSource - e.g. a log file.

Properties

| Name | Type | Description |
|-------------|--------|---|
| id | int | Id of the EventSource |
| name | String | Name of the EventSource - defined in the definition. This is required when adding a new EventSource |
| displayName | String | Display name of the EventSource - defined in the definition |

| | | |
|-------------|--------|--|
| location | String | 'Location' of the EventSource. This is e.g. the path to the log file being monitored. This is required when adding a new EventSource |
| resourceId | int | Id of the resource this |
| description | String | A description of this EventSource |

2.15. DATA-CLASS: GROUPDEFINITIONREST

One DynaGroup definition

Properties

| Name | Type | Description |
|-------------------|---------------|---|
| id | int | The id of the definition |
| name | String | The name of the definition |
| description | String | A description of the definition |
| expression | List<String> | Individual lines of the group expression |
| recalcInterval | long | Interval in ms at which the expression should be re-evaluated. A value of 0 means no recalculation. |
| generatedGroupIds | List<Integer> | List of ids for the groups generated by this group expression |
| recursive | boolean | Is this definition generating recursive groups? |
| links | List<Link> | |

2.16. DATA-CLASS: GROUPREST

Representation of a resource group

Properties

| Name | Type | Description |
|------|------|-----------------|
| id | int | Id of the group |

| | | |
|-----------------------|--|--|
| name | String | Name of the group |
| resourceTypeId | Integer | ResourceType id for compatible groups |
| recursive | boolean | True if the group is recursive (i.e. includes child resources) |
| category | org.rhq.core.domain.resource.group.GroupCategory | Category of the group. |
| links | List<Link> | |
| dynaGroupDefinitionId | int | Id of a DynaGroup definition if the group was defined by a DynaGroup. |
| explicitCount | int | Number of explicitly added resources in the group |
| implicitCount | int | Number of resources in the group (explicit + children for a recursive group) |

2.17. DATA-CLASS: INTEGERVALUE

Encapsulates a simple integer value. In XML this is represented as `<value value="..."/>`

Properties

| Name | Type | Description |
|-------|---------|------------------|
| value | Integer | The actual value |

2.18. DATA-CLASS: LINK

Link between two resources

Properties

| Name | Type | Description |
|------|--------|------------------------|
| rel | String | Name of the relation |
| href | String | Target of the relation |

2.19. DATA-CLASS: METRICAGGREGATE

An aggregate of metrics data for a given schedule

Properties

| Name | Type | Description |
|---------------|---------------------------------|--|
| dataPoints | List<MetricAggregate.DataPoint> | List of individual data points |
| min | Double | Minimum value for the data |
| avg | Double | Average value for the data |
| max | Double | Maximum value for the data |
| numDataPoints | int | Number of data points i.e. size of the dataPoints list |
| scheduleId | Integer | Id of the metric |
| minTimeStamp | long | Timestamp of the earliest data point in the list |
| maxTimeStamp | long | Timestamp for the latest data point in the list |
| group | boolean | Determines if this is data for a group |

2.20. DATA-CLASS: METRICDEFINITIONAGGREGATE

An aggregate of metrics data for a given metric definition (for a group)

Properties

| Name | Type | Description |
|--------------|---------|--|
| min | Double | Minimum value for the data |
| avg | Double | Average value for the data |
| max | Double | Maximum value for the data |
| definitionId | Integer | Id of the metric *definition* |
| minTimeStamp | long | Timestamp of the earliest data point in the list |
| maxTimeStamp | long | Timestamp for the latest data point in the list |

2.21. DATA-CLASS: METRICSCHEDULE

A single metrics schedule

Description: A schedule represents the collection interval for a metric and if the collection is enabled

Properties

| Name | Type | Description |
|--------------------|------------|---|
| scheduleId | int | The id of the schedule |
| scheduleName | String | The name of the metric |
| enabled | Boolean | Is the collection enabled? |
| collectionInterval | long | The collection interval in milliseconds |
| displayName | String | The name of the metric as shown in the UI |
| unit | String | The base unit of the metric |
| type | String | Type of metric |
| definitionId | int | |
| mtime | long | Last modification timestamp of the schedule |
| links | List<Link> | |

2.22. DATA-CLASS: NUMERICDATAPOINT

One numerical data point of a metric (aka schedule)

Properties

| Name | Type | Description |
|------------|--------|---|
| timeStamp | long | The timestamp when the metric was taken |
| value | Double | The numerical value |
| scheduleId | int | The id of the metric |

2.23. DATA-CLASS: OPERATIONDEFINITIONREST

The template from which operations are created

Properties

| Name | Type | Description |
|--------|---------------------|--|
| name | String | Name of the definition |
| id | int | Id of the definition |
| links | List<Link> | |
| params | List<SimplePropDef> | List of properties for this operation definition |

2.24. DATA-CLASS: OPERATIONHISTORYREST

Denotes the outcome of an operation that has been scheduled to run.

Properties

| Name | Type | Description |
|---------------|--------------------|---|
| status | String | The status of the history |
| result | Map<String,Object> | Map with key/value pairs for the operation result |
| errorMessage | String | Error message if the operation was not successful |
| links | List<Link> | |
| operationName | String | Name of the operation that was run |
| resourceName | String | Name of the resource the operation was run on |
| lastModified | long | |
| jobId | String | Job-ID of this history item |

2.25. DATA-CLASS: OPERATIONREST

Represents an operation to be scheduled.

Description: You use this object to prepare the operation to be scheduled. The object is derived from an OperationDefinition. When you are ready preparing, you need to set 'readyToSubmit' to true.

Properties

| Name | Type | Description |
|---------------|--------------------|---|
| id | int | Id of the operation schedule |
| name | String | Name of the operation |
| readyToSubmit | boolean | Is this schedule ready to finally be submitted (and thus be scheduled to run) |
| resourceId | int | The id of the resource the operation should run |
| definitionId | int | The id of the operation definition this schedule was created from |
| params | Map<String,Object> | A key/value map of parameters. Keys are strings. The map is populated at the time the schedule is created from its definition |
| links | List<Link> | |

2.26. DATA-CLASS: PLUGINREST

Represents an agent plugin installed in RHQ.

Properties

| Name | Type | Description |
|-------------|---|-------------|
| id | int | |
| name | String | |
| displayName | String | |
| version | String | |
| enabled | boolean | |
| status | org.rhq.core.domain.plugin.PluginStatusType | |
| links | List<Link> | |

2.27. DATA-CLASS: RESOURCETYPEREST

A resource type

Properties

| Name | Type | Description |
|--------------|---|-------------|
| createPolicy | org.rhq.core.domain.resource.CreateDeletePolicy | |
| dataType | org.rhq.core.domain.resource.ResourceCreationDataType | |
| id | int | |
| links | List<Link> | |
| name | String | |
| pluginName | String | |

2.28. DATA-CLASS: RESOURCEWITHCHILDREN

One resource with its direct child resources

Properties

| Name | Type | Description |
|----------|----------------------------|-------------------------|
| id | String | Id of the resource |
| name | String | Name of the resource |
| children | List<ResourceWithChildren> | List of child resources |

2.29. DATA-CLASS: RESOURCEWITHTYPE

One resource

Properties

| Name | Type | Description |
|--------------|---------|---|
| resourceName | String | Name of the resource |
| resourceId | int | ID of the resource |
| typeName | String | Name of the resource type of the resource |
| typeId | Integer | Id of the resource type of the resource |

| | | |
|--------------|------------|--|
| pluginName | String | Name of the plugin defining the resource type |
| parentId | Integer | Id of the parent resource. Can be null if there is no parent (i.e. the category is platform) |
| status | String | Inventory status of the resource. |
| links | List<Link> | |
| ancestry | String | The ancestry gives the path to the root resource |
| availability | String | The availability of the resource at the time of retrieval. Please note that when caching the resource, this value may become outdated. |
| location | String | The location of the resource (e.g. data center / rack) |
| description | String | A description of the resource |

2.30. DATA-CLASS: SIMPLEPROPDEF

A simple property definition

Description: This bean is e.g. used for parameters of operations

Properties

| Name | Type | Description |
|--------------|---|--|
| name | String | The name of the property |
| required | boolean | Indicates if the property is required i.e. has to have a value set |
| type | org.rhq.core.domain.configuration.definition.PropertySimpleType | The type of the property |
| defaultValue | String | The string representation of a default value if defined. |

2.31. DATA-CLASS: STATUS

Place holder for the system status

Properties

| Name | Type | Description |
|--------|--------------------|---|
| values | Map<String,String> | Contains the status as a map of key/value pairs |

2.32. DATA-CLASS: STRINGVALUE

Encapsulates a simple string value. In XML this is represented as
`<value value="..."/>`

Properties

| Name | Type | Description |
|-------|--------|------------------|
| value | String | The actual value |

2.33. DATA-CLASS: USERREST

Information about a user in RHQ

Properties

| Name | Type | Description |
|-----------|--------|----------------------------------|
| id | int | The ID of the user |
| login | String | The login name of the user |
| tel | String | The telephone number of the user |
| email | String | The email address of the user |
| firstName | String | The first name of the user |
| lastName | String | The last name of the user |