

Bitdefender®

GravityZone

API GUIDE



Bitdefender Control Center API Guide

Publication date 2019.03.29

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1. GETTING STARTED

1.1. Introduction

Bitdefender Control Center APIs allow developers to automate business workflows.

The APIs are exposed using JSON-RPC 2.0 protocol specified here:

<http://www.jsonrpc.org/specification>.

Here is an example of API call updating the company name inside Bitdefender Control Center:

```
{
    "id": "91d6430d-bfd4-494f-8d4d-4947406d21a7",
    "jsonrpc": "2.0",
    "method": "updateCompanyDetails",
    "params": {
        "name": "My Company Name"
    }
}
```

For this call, the following response is sent back to the application:

```
{
    "id": "91d6430d-bfd4-494f-8d4d-4947406d21a7",
    "jsonrpc": "2.0",
    "result": null
}
```

Each API call targets a method and passes a set of parameters.

There are two types of parameters:

- required: MUST be always passed to the called method.
- optional: has a default value and can be omitted from the parameters list. Any optional parameter can be skipped, regardless its position in the parameters list.

1.2. API Requests

The API calls are performed as HTTP requests with JSON-RPC messages as payload. HTTP POST method MUST be used for each API call. Also, it is required that each HTTP request have the Content-Type header set to application/json.

Note

The API is limited to maximum 10 requests per second per API key. If this limit is exceeded, subsequent requests are rejected and 429 HTTP status code is returned.

Bitdefender Control Center exposes multiple APIs targeting distinct areas in the product. Each API exposes a set of methods related to a designated product area.

The base URL for all APIs is: [CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/](https://cloud.gravityzone.bitdefender.com/api). The full URL of the API is obtained by adding the API name to the base URL.

The **CONTROL_CENTER_APIs_ACCESS_URL** is displayed in the **Access URL** field. To find this field click your username in the upper-right corner of the console and choose **My Account**. Go to the **Control Center API section**.

Control Center API	
Access URL:	https://cloud.gravityzone.bitdefender.com/api

Currently, the following APIs are being exposed:

1. **Companies**, with the API URL:

[CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/companies](https://cloud.gravityzone.bitdefender.com/api/companies).

2. **Licensing**, with the API URL:

[CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/licensing](https://cloud.gravityzone.bitdefender.com/api/licensing).

3. **Accounts**, with the API URL:

[CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/accounts](https://cloud.gravityzone.bitdefender.com/api/accounts).

4. **Network**, with the API URL:

[CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/network](https://cloud.gravityzone.bitdefender.com/api/network).

5. **Packages**, with the API URL:

CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/packages.

6. **Policies**, with the API URL:

CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/policies.

7. **Integrations**, with the API URL:

CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/integrations.

8. **Reports**, with the API URL:

CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/reports.

9. **Push**, with the API URL:

CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/push.

10. **Incidents**, with the API URL:

CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/incidents.

11. **Quarantine**, with the API URL:

CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/quarantine.

The HTTP requests containing JSON RPC 2.0 can be performed on each API URL in order to consume the exposed functionality.



Note

Batch requests and notifications are not currently supported by Bitdefender Control Center.

1.3. API Keys

The API key is a unique key that is generated in **MyAccount** section of Bitdefender Control Center. Each API key allows the application to call methods exposed by one or several APIs. The allowed APIs are selected at the time the API key is generated.

To generate API keys:

1. Log in to <https://gravityzone.bitdefender.com/> using your Bitdefender Control Center account.
2. Click your username in the upper-right corner of the console and choose **My Account**.
3. Go to the **API keys** section and click the **Add** button at the upper side of the table.
4. Select the APIs that you want to use.

API key

Enabled APIs:

Companies API Integrations API
 Licensing API Policies API
 Packages API
 Network API

Save **Cancel**

5. Click **Save**. An API key will be generated for the selected APIs.

(+) Add (-) Delete ⟳ Refresh		Created
Key		
<input type="checkbox"/>	[REDACTED]	Mon Apr 20 2015 07:32:59 GMT+0300 (GTB Daylight Time)

**Important**

By using the API keys, developers can access sensitive information such as packages and inventory. Please do not share or distribute your own generated API keys, in order to prevent the leaking of sensitive information!

1.4. Authentication

The API calls to Bitdefender Control Center are authenticated at HTTP protocol level using the [HTTP Basic Authentication](#) mechanism described here:

<http://tools.ietf.org/html/rfc2617>.

The client application is required to send the `Authorization` request header each time it performs a call to an API.

The `Authorization` header consists of the following elements:

1. The authorization method and a space as the prefix; in our case, this will always be equal to `Basic`.
2. A Base64 encoded string, generated from the combined `username:password` sequence.

In our case, the API key is set as `username`, and `password` is set as an empty string.

For example, if the API Key is equal to

`N8KzwcqVUxAI1RoPi5jyFJPkPlkDl9vF`, the Base64 encoding should be performed on the following string:

`N8KzwcqVUxAI1RoPi5jyFJPkPlkDl9vF`. In this case, the content sent to the `authorization` header is

`Basic TjhLendjcVZVeEFJMVJvUGk1anlGS1BrUGxrRGw5dkY6`.

1.5. Errors reporting

Bitdefender Control Center returns an error if the requested API method is unable to perform the desired task.

Here is an example of error response for a failing API call:

{

```
"id": "4d77e2d9-f760-4c8a-ba19-53728f868d98",
"jsonrpc" : "2.0",
"error" : {
    "code" : -32601,
    "message" : "Method not found",
    "data" : {
        "details" : "The selected API is not available."
    }
}
```

The error code and error message are returned as specified in [JSON-RPC 2.0 Specification](#):

Error	Code	Message
Parse error	-32700	Parse error
Invalid Request	-32600	Invalid Request
Method not found	-32601	Method not found
Invalid params	-32602	Invalid params
Server error	-32000	Server error

The full description of the error is placed in `data.details` member in the error message.

Also, the HTTP status code is set according to the type of errors:

HTTP status	Description
401 Unauthorized	is set if the authentication failed for the request (e.g. the API key is incorrect or missing)
403 Forbidden	is set if the request is not authorized to consume the desired functionality (e.g. the API is not enabled for the used API key)
405 Method Not Allowed	the HTTP method is other than POST
429 Too Many Requests	more than 10 requests per second have been issued from the same IP address

200 HTTP status code is returned for successful requests or for requests that have failed due to server errors (e.g. a required parameter is not passed).

2. REFERENCE

2.1. Accounts

The Accounts API includes several methods allowing the management of user accounts:

- `getAccountsList` : lists existing user accounts.
- `deleteAccount` : deletes a user account.
- `createAccount` : creates a user account.
- `updateAccount` : updates a user account.
- `configureNotificationsSettings` : configures the user notification settings.
- `getNotificationsSettings` : returns the notifications settings.

API url: [CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/accounts](#)

2.1.1. `getAccountsList`

This method lists the user accounts visible to the account which has generated the API key. It will return an empty list if there are no user accounts.

Note

When the accounts list is retrieved, the account which generated the API key **will be omitted**.

Parameters

Parameter	Type	Optional	Description
page	Number	Yes	The results page number. The default value is 1.
perPage	Number	Yes	The number of items displayed in a page. The upper limit is 100 items per page. Default value: 30 items per page.

Return value

This method returns an Object containing information regarding the user accounts. The returned object contains:

- **page** - the current page displayed
- **pagesCount** - the total number of available pages
- **perPage** - the total number of returned items per page
- **items** - the list of user accounts. Each entry in the list has the following fields:
 - **id**, the ID of the user account.
 - **email**, the email of the user account.
 - **profile**, the profile information of the user account containing: **fullName**, **timezone** and **language**.
 - **role**, the role assigned for the user account. Possible values: 1 - Company Administrator, 2 - Network Administrator, 3 - Reporter, 5 - Custom.
 - **rights**, object containing the rights of the user account with true or false values whether the right is allowed for user or not.
 - **companyName**, the name of the company of the user account.
 - **companyId**, the ID of the company of the user account.
- **total** - the total number of items

Example

Request :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "method": "getAccountsList",  
    "params": {  
        "perPage": 20,  
        "page": 1  
    }  
}
```

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "result": {  
        "total": 2,  
        "page": 1,  
        "perPage": 20,  
        "pagesCount": 1,  
        "items": [  
            {  
                "id": "585d3170aaed70b7048b4633",  
                "email": "client@bitdefender.com",  
                "profile": {  
                    "fullName": "Bitdefender User",  
                    "language": "en_US",  
                    "timezone": "Europe/Bucharest"  
                },  
                "role": 5,  
                "rights": {  
                    "companyManager": false,  
                    "manageCompanies": false,  
                    "manageNetworks": true,  
                    "manageReports": true,  
                    "manageUsers": true  
                },  
                "companyName": "bitdefender",  
                "companyId": "58541613aaed7090058b4567"  
            },  
            {  
                "id": "585d3170aaed70b7048b4633",  
                "email": "client2@bitdefender.com",  
                "profile": {  
                    "fullName": "Bitdefender User",  
                    "language": "en_US",  
                    "timezone": "Europe/Bucharest"  
                },  
                "role": 1,  
                "rights": {  
                    "companyManager": true,  
                    "manageCompanies": false,  
                    "manageNetworks": true,  
                    "manageReports": true,  
                    "manageUsers": true  
                }  
            }  
        ]  
    }  
}
```

```
        "manageUsers": true
    },
    "companyName": "bitdefender",
    "companyId": "58541613aaed7090058b4567"
}
]
}
}
```

2.1.2. deleteAccount

This method deletes a user account identified through the account ID.

Note

The account that was used to create the API key cannot be deleted by using the API.

Parameters

Parameter	Type	Optional	Description
accountId	String	No	The ID of the user account to be deleted.

Return value

This method does not return any value.

Example

Request :

```
{
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",
    "jsonrpc": "2.0",
    "method": "deleteAccount",
    "params": {
        "accountId": "585d3810aaed70cc068b45f8"
    }
}
```

Response :

```
{  
  "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
  "jsonrpc": "2.0",  
  "result": null  
}
```

2.1.3. createAccount

This method creates a user account with password.

Parameters

Parameter	Type	Optional	Description
email	String	No	The email address for the new account.
profile	Object	No	An object containing profile information: <code>fullName</code> , <code>timezone</code> and <code>language</code> . <code>timezone</code> and <code>language</code> are optional.
password	String	Yes	The password for the new account. If this value is omitted a password will be created and sent by email to the user. The password should be at least 6 characters in length and must contain at least one digit, one upper case, one lower case and one special character.
role	Number	Yes	The role of the new account. The default value is 1 - Company Administrator. These are the available roles: <ul style="list-style-type: none">• 1 - Company Administrator.• 2 - Network Administrator.• 3 - Reporter.• 5 - Custom. For this role, rights must be specified.

Parameter	Type	Optional	Description
rights	Object	Yes	<p>An object containing the rights of a user account. This object should be set only when <code>role</code> parameter has the value 5 - Custom. When set for other roles, the values will be ignored and replaced with the rights specific to that role. The available rights are:</p> <ul style="list-style-type: none"> • <code>manageNetworks</code> Setting this to true implies <code>manageReports</code> right to true • <code>manageUsers</code> • <code>manageReports</code> • <code>companyManager</code> <p>Each option has two possible values: true, where the user is granted the right, or false otherwise. Omitted values from the request are automatically set to false.</p>
targetIds	Array	Yes	A list of IDs representing the targets to be managed by the user account.

Return value

This method returns a String: The ID of the created user account.

Example

Request :

```
{
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",
    "jsonrpc": "2.0",
    "method": "createAccount",
    "params": {
        "email": "client@bitdefender.com",
        "profile": {
            "fullName": "Bitdefender User",
            "language": "en_US",
            "timezone": "Europe/Bucharest"
    }
}
```

```
        },
        "password": "P@s4w0rd",
        "role": 5,
        "rights": {
            "manageNetworks": true,
            "manageReports": true,
            "manageUsers": false
        },
        "targetIds": [
            "585d2dc9aaed70820e8b45b4",
            "585d2dd5aaed70b8048b45ca"
        ]
    }
}
```

Response :

```
{
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",
    "jsonrpc": "2.0",
    "result": "585d2dc9aaed70820abc45b4"
}
```

2.1.4. updateAccount

This method updates a user account identified through the account ID.

Parameters

Parameter	Type	Optional	Description
accountId	String	No	The ID of the user account to be updated.
email	String	Yes	The email address for the account.
password	String	Yes	The password for the account. The password should be at least 6 characters in length and must contain at least one digit, one upper case, one lower case and one special character.

Parameter	Type	Optional	Description
profile	Object	Yes	An object containing profile information: <code>fullName</code> , <code>timezone</code> and <code>language</code> .
role	Number	Yes	The new role of the user. These are the available roles: <ul style="list-style-type: none">● 1 - Company Administrator.● 2 - Network Administrator.● 3 - Reporter.● 5 - Custom. For this role, rights must be specified.
rights	Object	Yes	An object containing the rights of a user account. This object should be set only when <code>role</code> parameter has the value 5 - Custom. When set for other roles, the values will be ignored and replaced with the rights specific to that role. The available rights are: <ul style="list-style-type: none">● <code>manageNetworks</code> Setting this to True implies <code>manageReports</code> right to true● <code>manageUsers</code>● <code>manageReports</code>● <code>companyManager</code> Each option has two possible values: true, where the user is granted the right, or false otherwise. Omitted values from the request are automatically set to false.
targetIds	Array	Yes	A list of IDs representing the targets to be managed by the user account.

Return value

This method returns a Boolean: True when the user account has been successfully updated.

Example

Request :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "method": "updateAccount",  
    "params": {  
        "accountId" : "585d3d3faaed70970e8b45ed",  
        "email": "client@bitdefender.com",  
        "profile": {  
            "fullName": "Bitdefender User",  
            "language": "en_US",  
            "timezone": "Europe/Bucharest"  
        },  
        "password": "P@s4w0rd",  
        "role": 5,  
        "rights": {  
            "manageNetworks": true,  
            "manageReports": true,  
            "manageUsers": false  
        },  
        "companyId": "58541613aaed7090058b4567",  
        "targetIds": [  
            "585d2dc9aaed70820e8b45b4",  
            "585d2dd5aaed70b8048b45ca"  
        ]  
    }  
}
```

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "result": true  
}
```

2.1.5. configureNotificationsSettings

This method configures the notification settings for a given user account.

Parameters

Parameter	Type	Optional	Description
accountId	String	Yes	The ID of the account for which the notification settings are configured. If no value is provided, the settings will be applied to the account which generated the API key.
deleteAfter	Number	Yes	The number of days after which generated notifications will be automatically deleted. Valid values are between 1 and 365. The default value is 30 days.
emailAddresses	Array	Yes	A list of additional email addresses to be used when sending notifications.
includeDeviceName	Boolean	Yes	This option specifies whether the device name will be included in the notification sent by email, when it is available, or not. The value should be <code>True</code> to include the device name respectively <code>False</code> to not include it. The default value is <code>False</code> .
includeDeviceFQDN	Boolean	Yes	This option specifies whether the FQDN will be included in the notification sent by email, when it is available, or not. The value should be <code>True</code> to include the FQDN respectively <code>False</code> to not

Parameter	Type	Optional	Description
			include it. The default value is False.
notificationsSettings	Array	Yes	<p>A list of objects containing the notification settings to be configured. Only the specified notifications will be updated. Existing values are preserved for omitted settings. Each object should have the following structure:</p> <ul style="list-style-type: none">• <code>type</code>, the notification type,• <code>enabled</code>, True if the notification is enabled, False otherwise,• <code>visibilitySettings</code>, an object containing the visibility settings. For more information, refer to Notifications Visibility Options,• <code>configurationSettings</code>, notification specific configurations. This field depends on the notification type. For more information, refer to Relation Between Notification Type and configurationSettings.

Return value

This method returns a Boolean: True if the notifications settings have been successfully configured.

Example

Request :

```
{  
    "params": {  
        "accountId": "55896b87b7894d0f367b23c8",  
        "deleteAfter": 17,  
        "includeDeviceName": true,  
        "includeDeviceFQDN": true,  
        "emailAddresses": ["example1@example.com"],  
        "notificationsSettings": [  
            {  
                "type" : 1,  
                "enabled" : true,  
                "visibilitySettings" : {  
                    "sendPerEmail" : true,  
                    "showInConsole" : true,  
                    "useCustomEmailDistribution": false  
                    "emails" : ["example2@example.com"]  
                },  
                "configurationSettings" : {  
                    "threshold" : 15,  
                    "useThreshold" : true  
                }  
            }  
        ]  
    },  
    "jsonrpc": "2.0",  
    "method": "configureNotificationsSettings",  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d68"  
}
```

Response :

```
{  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d68",  
    "jsonrpc": "2.0",  
    "result": true  
}
```

2.1.6. getNotificationsSettings

This method returns the notifications settings.

Parameters

Parameter	Type	Optional	Description
accountId	String	Yes	The ID of the account for which the notifications settings are retrieved. If not provided, the method will retrieve the notifications settings for the account which has generated the API key.

Return value

This method returns an Object containing the current notifications settings:

- `deleteAfter` - the number of days after which generated notifications will be automatically deleted
- `includeDeviceName` - a boolean that informs whether the device name will be included in the notification sent by email or not
- `includeDeviceFQDN` - a boolean that informs whether the device FQDN will be included in the notification sent by email or not
- `emailAddresses` - the list of additional email addresses to be used when sending notifications
- `notificationsSettings` - the list containing the settings for all available notifications. Each entry in the list has the following fields:
 - `type`, the notification type,
 - `enabled`, True if the notification is enabled, False otherwise,
 - `visibilitySettings`, an object containing the configured visibility settings. For more information, refer to [Notifications Visibility Options](#),
 - `configurationSettings`, notification specific configurations. For more information, refer to [Relation Between Notification Type and configurationSettings](#).

Example

Request :

```
{  
    "params": {  
        "accountId": "55896b87b7894d0f367b23c8"  
    },  
    "jsonrpc": "2.0",  
    "method": "getNotificationsSettings",  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86"  
}
```

Response :

```
{  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86",  
    "jsonrpc": "2.0",  
    "result": {  
        "deleteAfter": 21,  
        "includeDeviceName": true,  
        "includeDeviceFQDN": false,  
        "emailAddresses": [  
            "example1@example.com",  
            "example2@example.com"  
        ],  
        "notificationsSettings": [  
            {  
                "type": 1,  
                "enabled": true,  
                "visibilitySettings": {  
                    "sendPerEmail": true,  
                    "showInConsole": true,  
                    "useCustomEmailDistribution": false  
                    "emails": []  
                },  
                "configurationSettings": {  
                    "threshold": 5,  
                    "useThreshold": true  
                }  
            },  
            {  
                "type": 3,  
                "enabled": false,  
                "visibilitySettings": {  
                    "sendPerEmail": true,  
                    "showInConsole": true,  
                    "useCustomEmailDistribution": false  
                    "emails": []  
                },  
                "configurationSettings": {  
                    "threshold": 5,  
                    "useThreshold": true  
                }  
            }  
        ]  
    }  
}
```

```
        "visibilitySettings" : {
            "sendPerEmail" : true,
            "showInConsole" : true,
            "useCustomEmailDistribution": false
            "emails" : [],
            "logToServer" : true
        }
    },
    ...
]
}
}
```

2.1.7. Objects

Notifications Visibility Options

You can use the `visibilitySettings` object to configure where notifications are visible. These are the available options:

Visibility option	Optional	Value
<code>showInConsole</code>	Yes	True to display this notification in Control Center, False otherwise. If no value is specified it will be set to its previous value or False if a previous value was not set.
<code>sendPerEmail</code>	Yes	True to send this notification by email, False otherwise. If no value is specified it will be set to its previous value or False if a previous value was not set. This option will take effect only if a SMTP server is configured in the Configuration page of Bitdefender Control Center.

Visibility option	Optional	Value
useCustomEmailDistribution	Yes	<p>True to send email notification to a custom emailing list, False otherwise. The notification will be sent by email to the distribution list only.</p> <p>If this option is set to True the <code>sendPerEmail</code> parameter must be specified and set to True.</p> <p>If no value is specified it will be set to its previous value or False if a previous value was not set.</p>
emails	Yes	A list of email addresses to receive the notification via email. When set, only these email addresses receive the notification. When <code>useCustomEmailDistribution</code> is set to True, this list must contain at least one valid email address.



Note

- At least one visibility option from `showInConsole`, `sendPerEmail` must be set to True when the notification is enabled.
- The `sendPerEmail`, `useCustomEmailDistribution` and `emails` visibility options are not available for these notification types:
 - 22 - Product Modules Event

Relation Between Notification Type and configurationSettings

Notification type	Available configurationSettings items with their type and possible values
1 - Malware Outbreak	<ul style="list-style-type: none"> <code>useThreshold</code>, boolean, True to trigger this notification when the number of infected

Notification type	Available configurationSettings items with their type and possible values
	<p>managed network objects exceeds a custom threshold, <code>False</code> otherwise</p> <ul style="list-style-type: none">● <code>threshold</code>, integer, the percentage of managed network objects infected by the same malware. Valid values are between 1 and 100
2 - License Expires	The <code>configurationSettings</code> parameter should not be set for this notification.
3 - License Usage Limit Has Been Reached	The <code>configurationSettings</code> parameter should not be set for this notification.
4 - License Limit Is About To Be Reached	The <code>configurationSettings</code> parameter should not be set for this notification.
5 - Update Available	<ul style="list-style-type: none">● <code>showConsoleUpdate</code>, boolean, <code>True</code> to receive the notification for console updates, <code>False</code> otherwise● <code>showPackageUpdate</code>, boolean, <code>True</code> to receive the notification for package updates, <code>False</code> otherwise● <code>showProductUpdate</code>, boolean, <code>True</code> to receive the notification for product updates, <code>False</code> otherwise
9 - Exchange License Usage Limit Has Been Reached	The <code>configurationSettings</code> parameter should not be set for this notification.
10 - Invalid Exchange User Credentials	The <code>configurationSettings</code> parameter should not be set for this notification.
11 - Upgrade Status	The <code>configurationSettings</code> parameter should not be set for this notification.
13 - Authentication Audit	The <code>configurationSettings</code> parameter should not be set for this notification.

Notification type	Available configurationSettings items with their type and possible values
17 - Antiphishing Event	The configurationSettings parameter should not be set for this notification.
18 - Firewall Event	The configurationSettings parameter should not be set for this notification.
19 - ATC/IDS event	The configurationSettings parameter should not be set for this notification.
20 - User Control Event	The configurationSettings parameter should not be set for this notification.
21 - Data Protection Event	The configurationSettings parameter should not be set for this notification.
22 - Product Modules Event	The configurationSettings parameter should not be set for this notification.
23 - Security Server Status Event	<ul style="list-style-type: none">• notUpdated, boolean, True to receive the notification when the Security Server is outdated, False otherwise• reboot, boolean, True to receive the notification when the Security Server needs a reboot, False otherwise
24 - Product Registration Event	The configurationSettings parameter should not be set for this notification.
25 - Overloaded Security Server Event	<ul style="list-style-type: none">• useThreshold, boolean, True to receive the notification when the scan load exceeds a custom threshold, False otherwise• threshold, integer, the minimum scan load necessary to issue this notification. Valid values are between 1 and 100

Notification type	Available configurationSettings items with their type and possible values
26 - Task Status	<ul style="list-style-type: none">statusThreshold, integer, the task status which triggers this notification. Set to 2 for any status, 3 for failed tasks
27 - Outdated Update Server	The configurationSettings parameter should not be set for this notification.
32 - Amazon EC2 Trial Expires in 7 Days	The configurationSettings parameter should not be set for this notification.
33 - Amazon EC2 Trial Expires Tomorrow	The configurationSettings parameter should not be set for this notification.
34 - Amazon EC2 Licensing event	The configurationSettings parameter should not be set for this notification.
35 - Amazon EC2 Cancelation event	The configurationSettings parameter should not be set for this notification.
36 - Amazon EC2 Invalid credentials	The configurationSettings parameter should not be set for this notification.

2.2. Companies

The Companies API includes several methods allowing the management of company accounts:

- `updateCompanyDetails` : updates company information, such as name.
- `getCompanyDetails` : retrieves the details of a company.

API url: [CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/companies](#)

2.2.1. `updateCompanyDetails`

This method updates the details of a company account.

Parameters

Parameter	Type	Optional	Description
name	String	Yes	The company's name. If not set, the company's name will not be changed.
address	String	Yes	The company's address. If not set, the company's address will not be changed.
phone	String	Yes	The company's phone number. If not set, the company's phone number will not be changed.

Return value

This method does not return any value.

Example

Request :

```
{  
    "params": {  
        "name": "Example LTD",  
        "address": "Str Example No 1",  
        "phone": "0040740000001"  
    },  
    "jsonrpc": "2.0",  
    "method": "updateCompanyDetails",  
    "id": "60357f0e-94da-463c-ba36-f50f2ef8c34f"  
}
```

Response :

```
{  
    "id": "60357f0e-94da-463c-ba36-f50f2ef8c34f",  
    "jsonrpc": "2.0",  
    "result": null  
}
```

2.2.2. getCompanyDetails

This method retrieves the details of a company.

Parameters

No input parameters are required.

Return value

This method returns an Object containing the details of the selected company:

- **name** - the name of the company
- **id** - the ID of the company
- **address** - the address of the company
- **phone** - the phone of the company
- **canBeManagedByAbove** - the security management status for the company:
`true`, if the security can be managed by parent companies
- **isSuspended** - company account status: `true`, if the company is suspended
- **type** - the company type: 1 for Customer

Example

Request :

```
{  
    "params": {  
    },  
    "jsonrpc": "2.0",  
    "method": "getCompanyDetails",  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810"  
}
```

Response :

```
{  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810",  
}
```

```
"jsonrpc": "2.0",
"result": {
    "type": 1,
    "name": "Example LTD",
    "id": "54aeab40b1a43dc0467b23e9",
    "address": "Str Example No 1",
    "phone": "0040740000001",
    "canBeManagedByAbove": true,
    "isSuspended": false
}
```

2.3. Licensing

The Licensing API contains the following methods, exposing the licensing related functionalities:

- `getLicenseInfo` : retrieves the license information for a company.
- `setLicenseKey` : sets the license key for a company.
- `getMonthlyUsage` : exposes a company's monthly license usage for endpoints and Exchange mailboxes, within a certain month.

API url: CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/licensing

2.3.1. getLicenseInfo

This method retrieves the license information for a company.

Parameters

No input parameters are required.

Return value

This method returns an Object containing the license details:

- `subscriptionType` - the company's subscription type: 1 for trial subscription, 2 for licensed subscription, 3 for inherited monthly subscription
- `expiryDate` - the license expiry date

- usedSlots - the number of used seats
- totalSlots - the number of total seats for licensed subscriptions, or the number of reserved seats for child companies that inherited a monthly license from their parent company.
- licenseKey - the license key for trial or licensed subscriptions.
- manageExchange - True if the company is allowed to manage the Security for Exchange feature, false otherwise
- manageEncryption - True if the company is allowed to manage the Full Disk Encryption feature, false otherwise
- manageRemoteEnginesScanning - True if the company is allowed to manage the Security for Virtualized Environments feature, false otherwise
- manageHyperDetect - True if the company is allowed to manage the HyperDetect feature, false otherwise
- manageSandboxAnalyzer - True if the company is allowed to manage the Sandbox Analyzer feature, false otherwise
- managePatchManagement - True if the company is allowed to manage the Patch Management feature, false otherwise
- manageEventCorrelator - True if the company is allowed to manage the Endpoint Detection and Response feature, false otherwise.

Example

Request :

```
{  
    "params": {  
    },  
    "jsonrpc": "2.0",  
    "method": "getLicenseInfo",  
    "id": "ad12cb61-52b3-4209-a87a-93a8530d91cb"  
}
```

Response :

```
{  
    "id": "c67860e2-36cc-43bd-bc0f-f1061c180b52",  
    "jsonrpc": "2.0",  
    "result": {  
        "subscriptionType": 1,  
        "expiryDate": "2015-01-18T10:02:30",  
        "usedSlots": 0,  
        "licenseKey": "LICKEY1"  
    }  
}
```

2.3.2. setLicenseKey

This method sets the license key for a company.

Parameters

Parameter	Type	Optional	Description
licenseKey	String	No	The license key to be set.

Return value

This method does not return any value.

Example

Request :

```
{  
    "params": {  
        "licenseKey" : "TNB3AAA"  
    },  
    "jsonrpc": "2.0",  
    "method": "setLicenseKey",  
    "id": "48daf1bc-4078-411c-bf44-4f293e68f501"  
}
```

Response :

```
{  
    "id": "48daf1bc-4078-411c-bf44-4f293e68f501",  
    "jsonrpc": "2.0",  
    "result": null  
}
```

2.3.3. getMonthlyUsage

This method exposes the monthly usage for a company in a target month.

Parameters

Parameter	Type	Optional	Description
targetMonth	String	Yes	The month for which the usage is returned. It should have the following format: mm/yyyy. The default value is the current month.

Return value

This method returns an Object containing the number of license seats used during the specified month:

- endpointMonthlyUsage - the monthly usage for endpoints. The method returns an error if the queried company does not have a monthly license.
- exchangeMonthlyUsage - the monthly usage for mail boxes. The method returns an error if the queried company does not have a monthly license.
- encryptionMonthlyUsage - the monthly usage for the encryption module. The method returns an error if the queried company does not have a monthly license.

Example

Request :

```
{  
    "params": {  
        "targetMonth": "03/2015"
```

```
        },
        "jsonrpc": "2.0",
        "method": "getMonthlyUsage",
        "id": "5087eab8-b74f-4a3e-85b3-4271e85890d4"
    }
```

Response :

```
{
    "id": "5087eab8-b74f-4a3e-85b3-4271e85890d4",
    "jsonrpc": "2.0",
    "result": {
        "endpointMonthlyUsage": 101,
        "exchangeMonthlyUsage": 15,
        "encryptionMonthlyUsage": 69
    }
}
```

2.4. Network

The Network API allows managing the network structure through the following methods:

- `getEndpointsList` : returns the list of endpoints under the specified group.
- `getManagedEndpointDetails` : returns the properties of the specified endpoint.
- `createCustomGroup` : creates a new custom group.
- `deleteCustomGroup` : deletes a custom group.
- `getCustomGroupsList` : retrieves the list of groups under a specified group.
- `moveEndpoints` : moves the specified list of endpoints to a custom group.
- `deleteEndpoint` : deletes a specified endpoint.
- `moveCustomGroup` : moves a custom group under another custom group.
- `getNetworkInventoryItems` : returns network inventory items.

- `createScanTask` : launches a scan task on the specified endpoints or groups. The available scan types are: Quick Scan, Full Scan and Memory Scan.
- `getScanTasksList` : returns the list of scan tasks.
- `setEndpointLabel` : sets a label to an endpoint.

API url: [CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/network](#)

2.4.1. getEndpointsList

This method returns the list of endpoints.

Parameters

Parameter	Type	Optional	Description
parentId	String	Yes	The ID of the target group. If not specified, the method returns the endpoints under Computers and Groups .
isManaged	Boolean	Yes	The flag to list managed or unmanaged endpoints. By default, the parameter is not set and the method returns all the managed and unmanaged endpoints. If set on <code>True</code> , the method returns only managed endpoints.
page	Number	Yes	The results page number. Default page number is 1.
perPage	Number	Yes	Number of items per page to be returned. The upper limit is 100 items per page. Default value: 30 items per page.
filters	Object	Yes	The filters to be used when querying the endpoints list. For information regarding the available filters and how to use them, refer to " Available Filters " (p. 34).

Available Filters

You can use the `filters` parameter to query the endpoints by certain properties. Filters are structured in sections and subsections, described hereinafter

The query result is a list of endpoints that match ANY selected filter in ALL sections AND subsections.

These are the available filtering options:

Section	Subsection	Filtering Options
security management		<ul style="list-style-type: none">● managedWithBest - a Boolean to filter all endpoints with the security agent installed on them. Default value: False.● managedExchangeServers - a Boolean to filter all protected Exchange servers. Default value: False. This filter requires a valid license key that covers the Security for Exchange security service.● managedRelays - a Boolean to filter all endpoints with Relay role. Default value: False.● securityServers - a Boolean to filter all Security Servers. Default value: False.
depth		<ul style="list-style-type: none">● allItemsRecursively - a Boolean to filter all endpoints recursively within the Network Inventory of a company. Default value: False.
details		<ul style="list-style-type: none">● ssid - string, the SSID (Active Directory SID of the endpoint) used to filter the endpoints regardless of their protection status.● macs - array, the list of MAC addresses used to filter the endpoints regardless of their protection status.



Important

Some filters require a specific license to be active, otherwise they are ignored, resulting in an inaccurate API response.

Return value

This method returns an Object containing information about the endpoints. The returned object contains:

- `page` - the current page
- `pagesCount` - the total number of pages
- `perPage` - the total number of returned items per page
- `total` - the total number of items
- `items` - an array containing the list of endpoints. Each entry in the list has the following fields:
 - `id`, the ID of managed endpoint,
 - `name`, the name of the endpoint,
 - `label`, the label set to this endpoint,
 - `fqdn`, the FQDN of the endpoint,
 - `groupId`, the group ID of the endpoint,
 - `isManaged`, boolean `True`, if this endpoint is managed,
 - `machineType`, the type of the machine: (1 - computer, 2 - virtual machine, 3 - EC2 Instance, 0 - Other),
 - `operatingSystemVersion`, the operating system version of the endpoint,
 - `ip`, the IP address of the endpoint,
 - `macs`, the MAC addresses of the endpoint,
 - `ssid`, the SSID (Active Directory SID) of the endpoint,
 - `managedWithBest`, boolean `True`, if BEST is installed on this endpoint,
 - `managedExchangeServer`, boolean `True`, if this endpoint is an Exchange Server,
 - `managedRelay`, boolean `True`, if this endpoint has Relay role,
 - `securityServer`, boolean `True`, if this endpoint is a Security Server

Example

Request :

```
{  
  "params": {
```

```
"parentId": "23b19c39b1a43d89367b32ce",
"page": 2,
"perPage": 5,
"filters": {
    "security": {
        "management": {
            "managedWithBest": true,
            "managedRelays": true
        }
    }
},
"jsonrpc": "2.0",
"method": "getEndpointsList",
"id": "301f7b05-ec02-481b-9ed6-c07b97de2b7b"
}
```

Response :

```
{
    "id": "103d7b05-ec02-481b-9ed6-c07b97de2b7a",
    "jsonrpc": "2.0",
    "result": {
        page: 2,
        pagesCount: 11,
        perPage: 5,
        total: 54
        items [
            {
                "id": "21a295eeb1a43d8b497b23b7",
                "name": "Endpoint 1",
                "label": "endpoint 1",
                "fqdn": "endpoint1.local",
                "groupId": "5a5f4d36b1a43d5f097b23bb",
                "isManaged": true,
                "machineType": 1,
                "operatingSystemVersion": "Windows Server 2016",
                "ip": "60.40.10.220",
                "macs": [
                    "324935237335"
                ]
            }
        ]
    }
}
```

```
        ],
        "ssid": "",

    },
    {
        "id" : "23a295d8b1a43d7c4a7b23c9",
        "name" : "Endpoint 2",
        "machineType": 2,
        "label" : "endpoint 2",
        "fqdn": "endpoint2.local",
        "groupId": "5a4f4d46b1a53d5f197b23aa",
        "isManaged": true,
        "machineType": 1,
        "operatingSystemVersion": "Windows 7",
        "ip": "60.40.10.221",
        "macs": [
            "325935237445"
        ],
        "ssid": "",

    }
]
}
```

2.4.2. getManagedEndpointDetails

This method returns detailed information, such as: the identification details for endpoint and security agent, the status of installed protection modules, and scanning reports and logs about a managed endpoint.

Parameters

Parameter	Type	Optional	Description
endpointId	String	No	The ID of the endpoint for which the details will be returned

Return value

This method returns an Object containing the details of the specified endpoint:

- `id` - the ID of managed endpoint
- `name` - the name of the endpoint
- `operatingSystem` - the operating system of the endpoint
- `state` - the power state of the machine: 1 - online, 2 - offline, 3 - suspended; 0 - unknown.
- `ip` - the IP of the endpoint
- `lastSeen` - the date of the last synchronization with Control Center
- `machineType` - the type of the machine: 1 - computer, 2 - virtual machine, 3 - EC2 Instance, 0 - Other
- `agent` - an object with the agent information installed on the endpoint.

Object description:

- `engineVersion`, the version of the engine
- `primaryEngine`, the first engine to be used when scanning for malware.
It can have one of the following values:
 - 1 - for Central Scanning (Security Server)
 - 2 - for Hybrid Scanning (Light Engines)
 - 3 - for Local Scanning (Full Engines)
 - 0 - Unknown
- `fallbackEngine`, the first engine to be used when scanning for malware.
It can have one of the following values:
 - 2 - for Hybrid Scanning (Light Engines)
 - 3 - for Local Scanning (Full Engines)
 - 0 - Unknown
- `lastUpdate`, the time and date of the last signatures update
- `licensed`, the license status: 0 - pending authentication, 1 - active license, 2 - expired license, 6 - there is no license or not applicable

- `productOutdated`, a Boolean specifying whether the agent's version is the latest available or not
 - `productUpdateDisabled`, a Boolean specifying if product updates are disabled
 - `productVersion`, the version of the product
 - `signatureOutdated`, a Boolean specifying if the antimalware signatures of the endpoint are outdated
 - `signatureUpdateDisabled`, a Boolean specifying if the antimalware signature updates are disabled
 - `type`, the type of the endpoint. It can be:
 - 1 - Endpoint Security
 - 2 - Bitdefender Tools
 - 3 - BEST
- `group` - the group to which the endpoint belongs. The object contains the following fields:
 - `id`, the id of the group
 - `name`, the name of the group
 - `malwareStatus` - an object informing of the status of the endpoint related to malware. The object has the following fields:
 - `detection`, a Boolean indicating if malware was detected on the endpoint in the last 24 hours,
 - `infected`, a Boolean informing if the antimalware was able to remove the infection or the endpoint is still infected
 - `policy` - an Object informing about the active policy on the endpoint. The object contains:
 - `id`, the ID of the active policy,
 - `name`, the name of the policy,
 - `applied`, true if the policy is applied

- **modules** - an Object informing of the installed modules and their statuses. These are the possible fields for the modules: advancedThreatControl, antimalware, contentControl, deviceControl, firewall, powerUser. The fields have Boolean values, True - if the module is enabled, or False - if the module is disabled.
- **label** - string, the label set to this endpoint
- **managedWithBest** - boolean True, if BEST is installed on this endpoint
- **managedExchangeServer** - boolean True, if this endpoint is an Exchange Server
- **managedRelay** - boolean True, if this endpoint has Relay role
- **securityServer** - boolean True, if this endpoint is a Security Server

Example

Request :

```
{  
    "params": {  
        "endpointId" : "54a28b41b1a43d89367b23fd"  
    },  
    "jsonrpc": "2.0",  
    "method": "getManagedEndpointDetails",  
    "id": "301f7b05-ec02-481b-9ed6-c07b97de2b7b"  
}
```

Response :

```
{  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810",  
    "jsonrpc": "2.0",  
    "result": {  
        'id': '54a28b41b1a43d89367b23fd',  
        'name': 'WIN-TGQDU499RS4',  
        'operatingSystem': 'Windows Server 2008 R2 Datacenter',  
        'state': 1,  
        'ip': '10.10.24.154',  
        'label': 'Windows Server 2008 R2 Datacenter'  
    }  
}
```

```
'lastSeen': '2015-06-22T13:46:59',
'machineType': 1,
'agent': {
    'engineVersion': '7.61184',
    'primaryEngine': 1,
    'fallbackEngine': 2,
    'lastUpdate': '2015-06-22T13:40:06',
    'licensed': 1,
    'productOutdated': False,
    'productUpdateDisabled': False,
    'productVersion': '6.2.3.569',
    'signatureOutdated': False,
    'signatureUpdateDisabled': False,
    'type': 3
},
'group': {
    'id': '5575a235d2172c65038b456d',
    'name': 'Custom Groups'
},
'malwareStatus': {
    'detection': False,
    'infected': False
},
'modules': {
    'advancedThreatControl': False,
    'antimalware': True,
    'contentControl': False,
    'deviceControl': False,
    'firewall': False,
    'powerUser': False
},
'policy': {
    'id': '5121da426803fa2d0e000017',
    'applied': True,
    'name': 'Default policy'
},
"label" : "endpoint label"
}
}
```

2.4.3. createCustomGroup

This method creates a new custom group of endpoints.

Parameters

Parameter	Type	Optional	Description
groupName	String	No	The name for the new group
parentId	String	Yes	The ID of the parent container. If no parent ID is specified, the new group is created under the 'Computers and Groups' group.

Return value

This method returns a String: the ID of the new created group.

Example

Request :

```
{  
    "params": {  
        "groupName": "myGroup",  
        "parentId": "5582c0acb1a43d9f7f7b23c6"  
    },  
    "jsonrpc": "2.0",  
    "method": "createCustomGroup",  
    "id": "9600512e-4e89-438a-915d-1340c654ae34"  
}
```

Response :

```
{  
    "id": "9600512e-4e89-438a-915d-1340c654ae34",  
    "jsonrpc": "2.0",  
    "result": "5582c210b1a43d967f7b23c6"  
}
```

2.4.4. deleteCustomGroup

This method deletes a custom group.

Parameters

Parameter	Type	Optional	Description
groupId	String	No	The ID of the custom group to be deleted
force	Boolean	Yes	Force delete when group is not empty. By default, the parameter is set to False.

Return value

This method does not return any value.

Example

Request :

```
{  
    "params": {  
        "groupId": "559bd17ab1a43d241b7b23c6",  
        "force": true  
    },  
    "jsonrpc": "2.0",  
    "method": "deleteCustomGroup",  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f"  
}
```

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "result": null  
}
```

2.4.5. getCustomGroupsList

This method retrieves the list of groups under a specified group.

Parameters

Parameter	Type	Optional	Description
parentId	String	Yes	The ID of the parent group for which the child groups will be listed. 'Computers and Groups' and 'Deleted' groups are returned if the passed parameter is null.

Return value

This method returns an Array containing the list of groups located under the specified parent. Each entry in the list has the following fields:

- **id** - the ID of the group
- **name** - the name of the group

Example

Request :

```
{  
    "params": {  
        "parentId": "5582c0acb1a43d9f7f7b23c6"  
    },  
    "jsonrpc": "2.0",  
    "method": "getCustomGroupsList",  
    "id": "9600512e-4e89-438a-915d-1340c654ae34"  
}
```

Response :

```
{  
    "id": "8edf135b-f7cb-41f2-8b67-98054694f61e",  
    "jsonrpc": "2.0",  
    "result": [  
        {
```

```
        "id" : "5582c385b1a43deb7f7b23c6",
        "name" : "myGroup1"
    },
    {
        "id" : "5582d3b3b1a43d897f7b23c8",
        "name" : "myGroup2"
    }
]
```

2.4.6. moveEndpoints

This method moves a list of endpoints to a custom group.

Parameters

Parameter	Type	Optional	Description
endpointIds	Array	No	The list of endpoints IDs
groupId	String	No	The ID of the destination group

Return value

This method does not return any value.

Example

Request :

```
{
    "params": {
        "endpointIds" : [
            "559bd152b1a43d291b7b23d8",
            "559bd152b1a43d291b7b2430"
        ],
        "groupId": "559bd17ab1a43d241b7b23c6"
    },
    "jsonrpc": "2.0",
    "method": "moveEndpoints",
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f"
```

}

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "result": null  
}
```

2.4.7. deleteEndpoint

This method deletes an endpoint.

**Note**

Deleting an endpoint under Custom Groups moves it to the Deleted group. For managed endpoints, an Uninstall task is automatically generated. To permanently remove an endpoint, call the method twice using the same ID.

Parameters

Parameter	Type	Optional	Description
endpointId	String	No	The ID of the endpoint

Return value

This method does not return any value.

Example

Request :

```
{  
    "params": {  
        "endpointId" : "559bd152b1a43d291b7b23d8"  
    },  
    "jsonrpc": "2.0",  
}
```

```
        "method": "deleteEndpoint",
        "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f"
    }
```

Response :

```
{
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",
    "jsonrpc": "2.0",
    "result": null
}
```

2.4.8. moveCustomGroup

This method moves a custom group to another custom group.

Parameters

Parameter	Type	Optional	Description
groupId	String	No	The ID of the custom group to be moved
parentId	String	No	The ID of the destination custom group

Return value

This method does not return any value.

Example

Request :

```
{
    "params": {
        "groupId": "559bd17ab1a43d241b7b23c6",
        "parentId": "559bd17ab1a85d241b7b23c6"
    },
    "jsonrpc": "2.0",
    "method": "moveCustomGroup",
```

```
        "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f"  
    }
```

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "result": null  
}
```

2.4.9. getNetworkInventoryItems

This method returns network inventory items.

Parameters

Parameter	Type	Optional	Description
parentId	String	Yes	The ID of the container for which the network items will be returned.
filters	Object	Yes	The filters to be used when querying the endpoints list. For information regarding the available filters and how to use them, refer to " Available Filters " (p. 49).
page	Number	Yes	The results page number. Default page number is 1.
perPage	Number	Yes	Number of items per page to be returned. The upper limit is 100 items per page. Default value: 30 items per page.

Available Filters

You can use the `filters` parameter to query the inventory items by certain properties. Filters are structured in sections and subsections, described hereinafter

The query result is a list of network items that match ALL sections AND subsections, AND ANY selected filter in a subsection.

These are the available filtering options:

Section	Subsection	Filtering Options
type		<ul style="list-style-type: none">• groups - a Boolean to filter all custom groups of endpoints. Default value: False.• ec2Instances - a Boolean to filter all Amazon EC2 Instances. Default value: False.• computers - a Boolean to filter all computers. Default value: False.• virtualMachines - a Boolean to filter all virtual machines. Default value: False.
security management		<ul style="list-style-type: none">• managedWithBest - a Boolean to filter all endpoints with the security agent installed on them. Default value: False.• managedExchangeServers - a Boolean to filter all protected Exchange servers. Default value: False. This filter requires a valid license key that covers the Security for Exchange security service.• managedRelays - a Boolean to filter all endpoints with Relay role. Default value: False.• securityServers - a Boolean to filter all Security Servers. Default value: False.
depth		<ul style="list-style-type: none">• allItemsRecursively - a Boolean to filter all endpoints recursively within the Network Inventory of a company. Default value: False.

Section	Subsection	Filtering Options
details		<ul style="list-style-type: none">● ssid - string, the SSID (Active Directory SID of the endpoint) used to filter the endpoints regardless of their protection status.● macs - array, the list of MAC addresses used to filter the endpoints regardless of their protection status.

Important

Some filters require a specific license to be active, otherwise they are ignored, resulting in an inaccurate API response.

Return value

This method returns an Object containing information about the network items. The returned object contains:

- **page** - the current page
- **pagesCount** - the total number of pages
- **perPage** - the total number of items returned per page
- **total** - the total number of items
- **items** - an array containing the list of items. Each entry in the list has the following fields:
 - **id**, the ID of the network item,
 - **name**, the name of the network item,
 - **parentId**, the ID of the parent container,
 - **companyId**, the ID of the parent company,
 - **type**, the type of network item: 4 - Group, 5 - Computer, 6 - Virtual Machine, 7 - EC2 Instance.
 - **details**, more information about the item. This field is available for 1 - Companies, 5 - Computers, 6 - Virtual Machines and 7 - EC2 Instances. For information regarding the content of the details member please refer to "[The details member](#)" (p. 52).

The details member

Some network inventory items contain a `details` member. This member exposes more information regarding the item. The information depends on the item type.

Item type	Details
5 (computer), 6 (virtual machine) and 7 (EC2 Instance)	<ul style="list-style-type: none">• <code>label</code>, the label set to the endpoint• <code>fqdn</code>, the FQDN of the endpoint• <code>groupId</code>, the group ID of the endpoint• <code>isManaged</code>, boolean True, if this endpoint is managed• <code>machineType</code>, the type of the machine: (1 - computer, 2 - virtual machine, 3 - EC2 Instance, 0 - Other)• <code>operatingSystemVersion</code>, the OS version of the endpoint• <code>ip</code>, the IP address of the endpoint• <code>macs</code>, the list of MAC addresses of the endpoint• <code>ssid</code>, the Active Directory SID of the endpoint• <code>managedWithBest</code>, boolean True, if BEST is installed on this endpoint• <code>managedExchangeServer</code>, boolean True, if this endpoint is an Exchange Server• <code>managedRelay</code>, boolean True, if this endpoint has Relay role• <code>securityServer</code>, boolean True, if this endpoint is a Security Server

Example

Request :

```
{  
  "params": {  
    "parentId": "23b19c39b1a43d89367b32ce",  
    "page": 2,  
    "perPage": 1,  
    "filters": {  
      "type": {
```

```
        "computers": true
    },
    "depth": {
        "allItemsRecursively": true
    }
}
},
"jsonrpc": "2.0",
"method": "getNetworkInventoryItems",
"id": "301f7b05-ec02-481b-9ed6-c07b97de2b7b"
}
```

Response :

```
{
    "id": "103d7b05-ec02-481b-9ed6-c07b97de2b7a",
    "jsonrpc": "2.0",
    "result": {
        "page": 2,
        "pagesCount": 11,
        "perPage": 1,
        "total": 11
        "items": [
            {
                "id": "21a295eeb1a43d8b497b24b7",
                "name": "Computer",
                "type": 5,
                "parentId": "21a295eeb1a43d8b497b24b7",
                "companyId": "21a295eeb1a43d8b497b24b7",
                "details": {
                    "label": "endpoint 2",
                    "fqdn": "endpoint2.local",
                    "groupId": "5a5f4d36b1a43d5f097b23bb",
                    "isManaged": true,
                    "machineType": 2,
                    "operatingSystemVersion": "Windows Server",
                    "ip": "60.40.10.220",
                    "macs": [
                        "324935237346"
                    ],
                }
            }
        ]
    }
}
```

```
        "ssid": "",  
    }  
}  
]  
}  
}
```

2.4.10. createScanTask

This method creates a new scan task.

Parameters

Parameter	Type	Optional	Description
targetIds	Array	No	A list with the IDs of the targets to scan. The target ID can designate an endpoint or a container.
type	Number	No	The type of scan. Available options are: 1 - quick scan; 2 - full scan; 3 - memory scan
name	String	Yes	The name of the task. If the parameter is not passed, the name will be automatically generated.

Return value

This method returns a Boolean: True when the task was successfully created

Example

Request :

```
{  
    "params": {  
        "targetIds": ["559bd17ab1a43d241b7b23c6",  
                     "559bd17ab1a43d241b7b23c7"],  
        "type": 1,  
        "name": "my scan"  
    },
```

```
    "jsonrpc": "2.0",
    "method": "createScanTask",
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f"
}
```

Response :

```
{
  "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",
  "jsonrpc": "2.0",
  "result": True
}
```

2.4.11. getScanTasksList

This method returns the list of scan tasks.

Parameters

Parameter	Type	Optional	Description
name	String	Yes	The name of the task. Filter the list of tasks by task name. Use the asterisk symbol (*) in front of the keyword to search its appearance anywhere in the name. If omitted, only results where the name starts with the keyword will be returned.
status	Number	Yes	The status of the task. Available options are: 1 - Pending; 2 - In progress; 3 - Finished.
page	Number	Yes	The results page number. Default page number is 1.
perPage	Number	Yes	The number of items displayed in a page. The upper limit is 100 items per page. Default value: 30 items per page.

Return value

This method returns an Object containing information about the tasks. The returned object contains:

- `page` - the current page displayed
- `pagesCount` - the total number of available pages
- `perPage` - the total number of returned items per page
- `total` - the total number of items
- `items` - the list of tasks. Each entry in the list has the following fields:
 - `id`, the ID of the task,
 - `name`, the name of the task,
 - `status`, the status of the task (as defined above),
 - `startDate`, the start date of the task

Example

Request :

```
{  
    "params": {  
        "status": 1,  
        "page": 2,  
        "perPage": 5  
    },  
    "jsonrpc": "2.0",  
    "method": "getScanTasksList",  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f"  
}
```

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "result": {  
        "page": 2,  
        "total": 10,  
        "perPage": 5,  
        "items": [  
            {"id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
                "name": "Task 1",  
                "status": 1,  
                "startDate": "2023-01-01T00:00:00Z",  
                "endDate": null  
            },  
            {"id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
                "name": "Task 2",  
                "status": 1,  
                "startDate": "2023-01-02T00:00:00Z",  
                "endDate": null  
            },  
            {"id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
                "name": "Task 3",  
                "status": 1,  
                "startDate": "2023-01-03T00:00:00Z",  
                "endDate": null  
            },  
            {"id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
                "name": "Task 4",  
                "status": 1,  
                "startDate": "2023-01-04T00:00:00Z",  
                "endDate": null  
            },  
            {"id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
                "name": "Task 5",  
                "status": 1,  
                "startDate": "2023-01-05T00:00:00Z",  
                "endDate": null  
            }  
        ]  
    }  
}
```

```
pagesCount: 11,  
perPage: 5,  
total: 54  
items[  
  {  
    "id" : "21a295eeb1a43d8b497b23b7",  
    "name" : "task 1",  
    "status": 1,  
    "startDate": '2015-08-21T23:48:16'  
  },  
  {  
    "id" : "21a295eeb1a43d8b497b23b8",  
    "name" : "task 2",  
    "status": 1,  
    "startDate": '2015-08-21T10:21:15'  
  },  
]  
}
```

2.4.12. setEndpointLabel

This method sets a new label to an endpoint.

Parameters

Parameter	Type	Optional	Description
endpointId	String	No	The endpoint ID.
label	String	No	A string representing the label. The maximum allowed length is 64 characters.

Return value

This method returns a Boolean: True, when the label was successfully set.

Example

Request :

```
{  
    "params": {  
        "endpointId": "5a30e7730041d70cc09f244b",  
        "label": "label with url http://test.com?a=12&b=wow"  
    },  
    "jsonrpc": "2.0",  
    "method": "setEndpointLabel",  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f"  
}
```

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "result": true  
}
```

2.5. Packages

The Packages API contains the following methods allowing the management of installation packages:

- `getInstallationLinks` : returns the installation links for a package.
- `createPackage` : creates a new package and returns its ID.
- `getPackagesList` : returns the list of available packages.
- `deletePackage` : deletes a package.
- `getPackageDetails` : retrieves information about a package.

API url: [CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/packages](#)

2.5.1. getInstallationLinks

This method returns the installation links for a package.

Parameters

Parameter	Type	Optional	Description
packageName	String	Yes	The name of the package. If no value is passed, all packages will be listed.

Return value

This method returns an Array containing the list of installation links for each available package. Each entry in the list has the following fields:

- packageName - the name of the package
- companyName - the name of the company the package belongs to
- companyId - the ID of the company the package belongs to
- installLinkWindows - the installation link for Windows operating systems
- installLinkWindowsLegacy - the installation link for Windows legacy operating systems
- installLinkMac - the installation link for MAC operating systems
- installLinkLinux - the installation link for Linux operating systems

Example

Request :

```
{  
    "params": {  
        "packageName": "my package"  
    },  
    "jsonrpc": "2.0",  
    "method": "getInstallationLinks",  
    "id": "426db9bb-e92a-4824-a21b-bba6b62d0a18"  
}
```

Response :

```
{  
  "id": "426db9bb-e92a-4824-a21b-bba6b62d0a18",  
  "jsonrpc": "2.0",  
  "result": [  
    {"packageName": "Pack1",  
     "companyName": "TestC2",  
     "companyId": "54a1a1d3b1a43d2b347b23c1",  
     "installLinkWindows": "https://gravityzone.bitdefender.com \\\n/Packages/BSTWIN/0/setupdownloader_[qwer=].exe",  
     "installLinkWindowsLegacy": "https://gravityzone.bitdefender.com \\\n/Packages/BSTWL/0/setupdownloader_[qwer=].exe",  
     "installLinkMac": "https://gravityzone.bitdefender.com \\\n/Packages/MAC/0/antivirus_for_mac_[qwer].pkg",  
     "installLinkLinux": "https://gravityzone.bitdefender.com \\\n/Packages/BSTNIX/0/0E_rWP/installer"  
    }]  
}
```

2.5.2. createPackage

This method creates an installation package.

Parameters

Parameter	Type	Optional	Description
packageName	String	No	The name of the package.
description	String	Yes	The description of the package. If no value is passed, the description will be an empty string.
language	String	Yes	The language of the package in the LL_CC format, where LL is the language and CC is the country. The supported languages are: en_US, es_ES, de_DE, fr_FR, ro_RO, pl_PL, pt_BR, it_IT, ru_RU. If not specified, the default value is en_US.

Parameter	Type	Optional	Description
modules	Object	Yes	An object with the modules to be enabled/disabled. The keys can be: atc, firewall, contentControl, deviceControl, powerUser. The values can be 1 (enabled) or 0 (disabled). If the module is not sent, it will be considered disabled.
scanMode	Object	Yes	An object with the scan mode settings. Object description: <ul style="list-style-type: none">● The accepted keys are: type, vms, computers, and ec2 if the AWS integration is set up. The type value can be 1 (automatic) or 2 (for custom mode).● If type value is 2, then the computers, vms and ec2 keys and values need to be sent, otherwise the default values will be filled by the system. The value for computers, vms and ec2 is an object with the possible keys: main and fallback.● The values for main can be 1 (for Central Scanning (Security Server)), 2 (for Hybrid Scanning (Light Engines)) or 3 (for Local Scanning (Full Engines)).● The values for fallback can be 2 (for Hybrid Scanning (Light Engines)) or 3 (for Local Scanning (Full Engines)). If the value for main option is 2 or 3, the value of fallback will not be considered.

Parameter	Type	Optional	Description
			<ul style="list-style-type: none">• The <code>main</code> option for <code>ec2</code> can be only 1 (for Central Scanning (Security Server)).• If this parameter is not sent, the values for automatic mode are saved.
settings	Object	Yes	An object with other settings of the package. The values can be <code>scanBeforeInstall</code> , <code>uninstallPassword</code> , <code>customInstallationPath</code> and <code>customGroupId</code> . The value for <code>scanBeforeInstall</code> can be 1 (enabled) or 0 (disabled). <code>uninstallPassword</code> should be a string and it should meet the complexity requirements: The password must be at least 6 characters in length and it must contain at least one digit, one upper case, one lower case and one special character; and <code>customInstallationPath</code> should be a valid Windows path where the package will be installed (this will work only for Windows operating systems). <code>customGroupId</code> should be a string representing the ID of the custom group entity where the new endpoint should be deployed. All values are optional.
roles	Object	Yes	An object containing the roles to be enabled or disabled: <ul style="list-style-type: none">• <code>relay</code> with the following possible values: 1 for enabling the Relay role,

Parameter	Type	Optional	Description
			<p>and 0 to disable it. By default, the Relay role is disabled.</p> <ul style="list-style-type: none">• exchange with the following possible values: 1 for enabling the Exchange role, and 0 to disable it. By default, the Exchange role is disabled. This role is available only if the company's license covers the Security for Exchange security service as well.
deploymentOptions	Object	Yes	<p>An object containing installation options:</p> <ul style="list-style-type: none">• type, an integer indicating the entity to which the endpoint will connect to. This entity will deliver the installation kit and updates. Possible values are: 1 for regular deploy from the Bitdefender Update Server; 2 for deployments through a Relay.• relayId, a string representing the ID of an endpoint with the Relay role enabled. This field must be set when the type option is set to 2, meaning deploying using a Relay.• useCommunicationProxy, a boolean allowing you to specify if the endpoint will use a proxy to communicate over the Internet. Possible values are True to use a communication proxy, False otherwise.• proxyServer, a string representing the IP or domain name of the proxy server. Valid values are IP addresses in IPV4 or IPV6 format and domain

Parameter	Type	Optional	Description
			<p>names as defined under RFC 1035. This option is required when <code>useCommunicationProxy</code> is set to True.</p> <ul style="list-style-type: none">• <code>proxyPort</code>, an integer representing the port which allows access to the proxy server. Valid values are between 1 and 65535. This option is required when <code>useCommunicationProxy</code> is set to True.• <code>proxyUsername</code>, a string representing the username required for authentication with the proxy server. This option may be omitted if the proxy server does not require authentication.• <code>proxyPassword</code>, a string representing the password required for authentication on the proxy server. This option may be omitted if the proxy server does not require authentication.

Return value

This method returns an Array containing an object with the ID of the created package and the status of the call, if successful.

Example

Request :

```
{  
  "params": {  
    "packageName": "a unique name",  
  }
```

```
"description": "package description",
"language": "en_EN",
"modules": {
    "atc": 1,
    "firewall": 0,
    "contentControl": 1,
    "deviceControl": 0,
    "powerUser": 0
},
"scanMode": {
    "type": 2,
    "computers": {"main": 1, "fallback": 2},
    "vms": {"main": 2},
    "ec2": {"main": 1, "fallback": 2}
},
"settings": {
    "uninstallPassword": "mys3cre3tP@ssword",
    "scanBeforeInstall": 0,
    "customInstallationPath": "c:\\mypath\\bitdefender",
    "customGroupId" : "5a4dff50b1a43ded0a7b23c8"
},
"roles": {
    "relay": 0,
    "exchange":1
},
"deploymentOptions":{
    "type": 2,
    "relayId": "54a1a1s3b1a43e2b347s23c1",
    "useCommunicationProxy": true,
    "proxyServer": "10.12.13.14",
    "proxyPort": 123
},
},
"jsonrpc": "2.0",
"method": "createPackage",
"id": "426db9bb-e92a-4824-a21b-bba6b62d0a18"
}
```

Response :

```
{  
    "id": "426db9bb-e92a-4824-a21b-bba6b62d0a18",  
    "jsonrpc": "2.0",  
    "result": [  
        {  
            "records": [u'551bb0aed5172cac5c8b4568'],  
            "success": True  
        }  
    ]  
}
```

2.5.3. getPackagesList

Returns the list of available packages.

Parameters

Parameter	Type	Optional	Description
page	Number	Yes	The page number of results. Default page number is 1.
perPage	Number	Yes	The number of items displayed in a page. The upper limit is 100 items per page. Default value: 30 items per page.

Return value

This method returns an Object containing An object with information about the packages. The response object contains:

- **page** - the current page displayed
- **pagesCount** - the total number of available pages
- **perPage** - the total number of returned items per page
- **total** - the total number of items
- **items** - the list of packages. Each entry in the list has the following fields:
 - **id**, the ID of the package,
 - **name**, the name of the package,

- type, the type of the package. It can be 3 for SVA, 4 for Bitdefender Endpoint Security Tools.

Example

Request :

```
{  
    "params": {  
        "page": 1,  
        "perPage": 5  
    },  
    "jsonrpc": "2.0",  
    "method": "getPackagesList",  
    "id": "696e1024-f94b-496a-9394-bee58b73c51f"  
}
```

Response :

```
{  
    "id": "103d7b05-ec02-481b-9ed6-c07b97de2b7a",  
    "jsonrpc": "2.0",  
    "result": {  
        "page": 1,  
        "pagesCount": 1,  
        "perPage": 5,  
        "total": 1,  
        "items": [  
            {  
                "id": "55b8c1bfb1a43dd71071071b",  
                "name": "Package Test",  
                "type": 3  
            }  
        ]  
    }  
}
```

2.5.4. deletePackage

This method deletes a package identified through the provided package ID.

Parameters

Parameter	Type	Optional	Description
packageId	String	No	The ID of the package to be deleted.

Return value

This method does not return any value.

Example

Request :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "method": "deletePackage",  
    "params": {  
        "packageId": "5a37b660b1a43d99117b23c6"  
    }  
}
```

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "result": null  
}
```

2.5.5. getPackageDetails

This method retrieves information about the configuration of a specific package identified through the provided ID.

Parameters

Parameter	Type	Optional	Description
packageId	String	No	The ID of the package for which details should be retrieved.

Return value

This method returns an Object containing information about the packages. The response object contains:

- `packageName` - the name of the package.
- `description` - the description of the package.
- `language` - the language of the package in the LL_CC format, where LL and CC are language and country international codes.
- `modules` - indicating the status of the modules present in the package. The object may contain the following members: `atc`, `firewall`, `contentControl`, `deviceControl`, `powerUser`. The values for each module are 1 (enabled) or 0 (disabled).
- `scanMode` - an object describing the scan mode settings and containing the following fields:
 - `type`, with the following values 1 (automatic) or 2 (for custom mode)
 - `computers`, an object with the possible fields: `main` for the main scanning engine and `fallback` for the fallback scanning engine. The values of these fields can be 1 - Central Scanning with Security Server, 2 - Hybrid Scanning (Light Engines) or 3 - Local Scanning (Full Engines)
 - `vms`, an object with the possible fields: `main` for the main scanning engine and `fallback` for the fallback scanning engine. The values of these fields can be 1 - Central Scanning with Security Server, 2 - Hybrid Scanning (Light Engines) or 3 - Local Scanning (Full Engines)
- `settings` - an object with other settings of the package containing the following fields: `scanBeforeInstall`, `customInstallationPath` and `customGroupId`.

- `roles` - an object containing the enabled/disabled roles:
 - `relay` with the following possible values: `1` if enabled and `0` if disabled.
 - `exchange` with the following possible values: `1` if enabled, and `0` if disabled.
- `deploymentOptions` - an object containing installation options:
 - `type`, an integer indicating the entity to which the endpoint will connect to. This entity will deliver the installation kit and updates. Possible values are: `1` for regular deploy from the Bitdefender Update Server; `2` for deployments through a Relay.
 - `relayId`, a string representing the ID of an endpoint with the Relay role enabled. This field is returned if `type` option is set to `2`, meaning deploying using a Relay.
 - `useCommunicationProxy`, a boolean specifying whether the endpoint uses a proxy to communicate over the Internet. Possible values are: `True` to use a communication proxy, `False` otherwise.
 - `proxyServer`, a string representing the IP or domain name of the proxy server. Valid values are IP addresses in IPV4 or IPV6 format and domain names as defined under RFC 1035. This option is present when `useCommunicationProxy` is set to `True`.
 - `proxyPort`, an integer representing the port which allows access to the proxy server. Valid values are between `1` and `65535`. This option is present when `useCommunicationProxy` is set to `True`.
 - `proxyUsername`, a string representing the username required for authentication with the proxy server. This option may be omitted if the proxy server does not require authentication.

Example

Request :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "method": "getPackageDetails",  
    "params": {  
        "packageId": "5a37b660b1a43d99117b23c6"  
    }  
}
```

}

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc":"2.0",  
    "result":{  
        "packageName":"Package",  
        "description":"package description",  
        "language":"en_US",  
        "modules":{  
            "antimalware":1,  
            "avc":1,  
            "firewall":0,  
            "contentControl":1,  
            "deviceControl":0,  
            "powerUser":0,  
        },  
        "roles":{  
            "relay":1,  
            "exchange":0  
        },  
        "scanMode":{  
            "type":2,  
            "computers":{  
                "main":1,  
                "fallback":2  
            },  
            "vms":{  
                "main":2  
            }  
        },  
        "settings":{  
            "scanBeforeInstall":false,  
            "customInstallationPath":"c:\\mypath\\bitdefender",  
            "customGroupId" : "5a4dff50b1a43ded0a7b23c8"  
        },  
        "deploymentOptions":{  
            "type":1,  
        }  
    }  
}
```

```
        "useCommunicationProxy":true,  
        "proxyServer":"10.12.13.14",  
        "proxyPort":123,  
        "proxyUsername":"user"  
    }  
}  
}
```

2.6. Policies

The Policies API includes several methods allowing the management of security policies:

- `getPoliciesList` : retrieves the list of available policies.
- `getPolicyDetails` : retrieves the settings of a security policy.

API url: [CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/policies](#)

2.6.1. getPoliciesList

This method retrieves the list of available policies.

Parameters

Parameter	Type	Optional	Description
page	Number	Yes	The page of results. The default value is 1.
perPage	Number	Yes	The number of items displayed in a page. The upper limit is 100 items per page. Default value: 30 items per page.

Return value

This method returns an Object containing a list of policy objects. The result has the following structure:

- `page` - the current displayed page
- `pagesCount` - the total number of available pages

- `perPage` - the total number of returned items per page
- `total` - the total number of items
- `items` - the list of policies. Each entry in the list has the following fields:
 - `id`, the ID of the policy,
 - `name`, the name of the policy,
 - `companyId`, the ID of the company which owns the policy,
 - `companyName`, the name of the company which owns the policy

Example

Request :

```
{  
    "params": {  
        "page": 1,  
        "perPage": 2  
    },  
    "jsonrpc": "2.0",  
    "method": "getPoliciesList",  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86"  
}
```

Response :

```
{  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86",  
    "jsonrpc": "2.0",  
    "result": {  
        "page": 1,  
        "pagesCount": 2,  
        "perPage": 2,  
        "total": 4  
        "items": [  
            {  
                "id": "21a295eeb1a43d8b497b23b7",  
                "name": "Policy 1",  
                "companyId": "55896b87b7894d0f367b23c6",  
                "companyName": "Company Test"  
            }  
        ]  
    }  
}
```

```
        },
        {
            "id" : "23a295d8b1a43d7c4a7b23c9",
            "name" : "Policy 2",
            "companyId" : "55896b87b7894d0f367b23c6",
            "companyName" : "Company Test"
        }
    ]
}
```

2.6.2. getPolicyDetails

This method retrieves all information related to a security policy.

Parameters

Parameter	Type	Optional	Description
policyId	String	No	The ID of the policy to be queried.

Return value

This method returns an Object containing the details of the queried policy:

- **id** - the ID of the queried policy
- **name** - the name of the queried policy
- **createdBy** - the username who created the policy
- **createDate** - the date when the policy was created
- **lastModifyDate** - the date when the policy was last modified
- **settings** - the settings of the policy

Example

Request :

```
{  
    "params": {  
        "policyId" : "55828d66b1a43de92c712345"  
    },  
    "jsonrpc": "2.0",  
    "method": "getPolicyDetails",  
    "id": "98409cc1-93cc-415a-9f77-1d4f681000b3"  
}
```

Response :

```
{  
    "id": "47519d2d-92e0-4a1f-b06d-aa458e80f610",  
    "jsonrpc": "2.0",  
    "result": {  
        "id": "5583c480b1a43ddc09712345",  
        "name": "Test",  
        "createdBy": "user@bitdefender.com",  
        "createDate": "2015-06-19T10:27:59",  
        "lastModifyDate": "2015-06-19T10:27:59",  
        "settings": {  
            ...  
        }  
    }  
}
```

2.7. Integrations

The Integrations API includes several methods allowing the third party integration management:

- `getHourlyUsageForAmazonEC2Instances` : exposes the hourly usage for each Amazon instance category (micro, medium etc.).
- `configureAmazonEC2IntegrationUsingCrossAccountRole` : configures the Amazon EC2 integration using the provided Amazon Resource Name of a valid AWS Cross-Account Role.

- `generateAmazonEC2ExternalIdForCrossAccountRole` : generates the External ID required to configure the AWS Cross-Account Role.
- `getAmazonEC2ExternalIdForCrossAccountRole` : returns the External ID required to configure the AWS Cross-Account Role.
- `disableAmazonEC2Integration` : disables the previously configured Amazon EC2 integration.

API url: [CONTROL_CENTER_APIS_ACCESS_URL/v1.0/jsonrpc/integrations](#)

2.7.1. `getHourlyUsageForAmazonEC2Instances`

This method exposes the hourly usage for each Amazon instance category (micro, medium etc.).

Parameters

Parameter	Type	Optional	Description
targetMonth	String	Yes	The month for which the usage is returned. The month will be provided in the following format: mm/yyyy. The default value is the current month.

Return value

This method returns an Object containing the hourly usage for each instance category.

Example

Request :

```
{  
    "params": {  
        "targetMonth": "03/2015"  
    },  
    "jsonrpc": "2.0",  
    "method": "getHourlyUsageForAmazonEC2Instances",  
    "id": "5087eab8-b74f-4a3e-85b3-4271e85890d4"  
}
```

Response :

```
{  
    "id": "5087eab8-b74f-4a3e-85b3-4271e85890d4",  
    "jsonrpc": "2.0",  
    "result": {  
        "micro": 11,  
        "medium": 157  
    }  
}
```

2.7.2. configureAmazonEC2IntegrationUsingCrossAccountRole

This method configures the Amazon EC2 integration using the provided Amazon Resource Name of a valid AWS Cross-Account Role.

For details regarding the integration steps, refer to [this KB article](#).

Parameters

Parameter	Type	Optional	Description
crossAccountRoleArn	String	No	The Amazon Resource Name of a valid AWS Cross-Account Role

Return value

This method does not return any value.

Example

Request :

```
{  
    "params": {  
        "crossAccountRoleArn":  
            "arn:aws:iam::111222345123:role/test"  
    },  
    "jsonrpc": "2.0",  
    "method":  
        "configureAmazonEC2IntegrationUsingCrossAccountRole",  
}
```

```
        "id": "5c6df60c-786a-4ea3-8ff3-b6e52b42aa46"  
    }
```

Response :

```
{  
    "id": "5c6df60c-786a-4ea3-8ff3-b6e52b42aa46",  
    "jsonrpc": "2.0",  
    "result": null  
}
```

2.7.3. generateAmazonEC2ExternalIdForCrossAccountRole

This method generates the External ID required to configure the AWS Cross-Account Role.

The Cross-Account Role will be used to configure the Amazon EC2 Integration.



Important

Use this method only when you need to generate a new External ID. Generating a new External ID will invalidate the existing integration. For retrieving the External ID use the `getAmazonEC2ExternalIdForCrossAccountRole` API method.

Parameters

No input parameters are required.

Return value

This method returns a String: the External ID.

Example

Request :

```
{  
    "params": {  
    },  
    "jsonrpc": "2.0",  
}
```

```
        "method": "generateAmazonEC2ExternalIdForCrossAccountRole",
        "id": "5c6df60c-786a-4ea3-8ff3-b6e52b42aa46"
    }
```

Response :

```
{
    "id": "5c6df60c-786a-4ea3-8ff3-b6e52b42aa46",
    "jsonrpc": "2.0",
    "result": "5e93f474a30a2db85dd6046d6d5fg188"
}
```

2.7.4. getAmazonEC2ExternalIdForCrossAccountRole

This method returns the External ID required to configure the AWS Cross-Account Role.

Parameters

No input parameters are required.

Return value

This method returns a String: the External ID. If no External ID was generated, this method will return null.

Example

Request :

```
{
    "params": {
    },
    "jsonrpc": "2.0",
    "method": "getAmazonEC2ExternalIdForCrossAccountRole",
    "id": "5c6df60c-786a-4ea3-8ff3-b6e52b42aa46"
}
```

Response :

```
{  
  "id": "5c6df60c-786a-4ea3-8ff3-b6e52b42aa46",  
  "jsonrpc": "2.0",  
  "result": "5e93f474a30a2db85dd6046d6d5fg188"  
}
```

2.7.5. disableAmazonEC2Integration

This method disables the previously configured Amazon EC2 integration.

Parameters

No input parameters are required.

Return value

This method does not return any value.

Example

Request :

```
{  
  "params": {  
  },  
  "jsonrpc": "2.0",  
  "method": "disableAmazonEC2Integration",  
  "id": "97114e95-f36b-4206-bca0-6fb41bb47575"  
}
```

Response :

```
{  
  "id": "97114e95-f36b-4206-bca0-6fb41bb47575",  
  "jsonrpc": "2.0",  
  "result": null
```

}

2.8. Reports

The Reports API includes several methods allowing the reports management:

- `createReport` : creates a new instant or scheduled report and returns the ID of the newly-created report.
- `getReportsList` : returns the list of scheduled reports.
- `getDownloadLinks` : returns the download links for a report.
- `deleteReport` : deletes the specified report and returns true on success or an error status code and error message on fail.

API url: [CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/reports](#)

2.8.1. `createReport`

This method creates a new instant or scheduled report, based on the parameters received, and returns the ID of the new created report.

The instant report is created and runs one-time-only at the API call.

The scheduled report is created at a later time and runs periodically, based on a predefined schedule.

Parameters

Parameter	Type	Optional	Description
name	String	No	The name of the report.
type	Number	No	<p>The type of report. One of the following values can be passed:</p> <ul style="list-style-type: none">• 1 - Antiphishing Activity• 2 - Blocked Applications• 3 - Blocked Websites• 5 - Data Protection

Parameter	Type	Optional	Description
			<ul style="list-style-type: none">● 6 - Device Control Activity● 7 - Endpoint Modules Status● 8 - Endpoint Protection Status● 9 - Firewall Activity● 11 - Malware Activity● 12 - Malware Status● 13 - Monthly License Usage● 14 - Network Status● 15 - On demand scanning● 16 - Policy Compliance● 17 - Security Audit● 18 - Security Server Status● 19 - Top 10 Detected Malware● 21 - Top 10 Infected Endpoints● 22 - Update Status● 23 - Upgrade Status● 24 - AWS Monthly Usage
targetIds	Array	No	<p>A list with the IDs of the targets for which to create the report. The targets depend on the report type.</p> <p>For these reports, the target must not be set:</p> <ul style="list-style-type: none">● Monthly License Usage● AWS Monthly Usage <p>For the other report types, the target ID can be of any type: group, containers, endpoints.</p>
scheduledInfo	Object	Yes	The object that defines the schedule to run the report. If the parameter is omitted, an

Parameter	Type	Optional	Description
			instant report is generated. For more information, please check the details of the scheduledInfo object.
options	Object	Yes	<p>The object that defines the options for creating the report. For these reports, the options object should not be set:</p> <ul style="list-style-type: none"> • Endpoint Modules Status • Policy Compliance • Security Server Status • Upgrade Status <p>For more information, please check the details of the options object.</p>
emailsList	Array	Yes	A list of emails where to deliver the report. emailsList should not be set for an instant report.

Objects

scheduledInfo

This object is used by the `createReport` call and it defines the schedule based on which the report will run.

The object contains a variable number of members, depending on the occurrence of the report:

Name	Type	Description
occurrence	integer	<p>The member is mandatory.</p> <p>Possible values:</p> <ul style="list-style-type: none"> – 1 - for an instant report – 2 - for hourly report – 3 - for daily report

Name	Type	Description
		<ul style="list-style-type: none">– 4 - for weekly report– 5 - for monthly report– 6 - for yearly report <p>For 13 - Monthly License Usage and 24 - AWS Monthly Usage reports the possible values are only 4 – weekly report and 5 – monthly report.</p>
interval	integer	<p>The member should be set only if occurrence has the value 2.</p> <p>Possible values:</p> <ul style="list-style-type: none">– Any integer between 1 and 24, representing the interval (in hours) at which the report will run.
startHour	integer	<p>The member should be set only if occurrence has the value 3, 4 or 5.</p> <p>Possible values:</p> <ul style="list-style-type: none">– Any integer between 0 and 23.
startMinute	integer	<p>The member should be set only if occurrence has the value 3, 4 or 5.</p> <p>Possible values:</p> <ul style="list-style-type: none">– Any integer between 0 and 59.
days	array	<p>The member should be set only if occurrence has the value 4.</p> <p>Possible values of the array elements:</p> <ul style="list-style-type: none">– Integers between 0 and 6, representing the days of the week, from 0 - Sunday to 6 - Saturday.
day	integer	<p>The member should be set only if occurrence has the value 5 or 6.</p> <p>Possible values:</p>

Name	Type	Description
month	integer	<p>The member should be set only if <code>occurrence</code> has the value 6.</p> <p>Possible values:</p> <ul style="list-style-type: none"> – An integer between 1 and 12, representing the month of the year.

options

This object is used by the `createReport` call and contains a variable number of members, depending on the report type:

- **Antiphishing Activity**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	<p>The member is mandatory.</p> <p>This value depends on the report <code>occurrence</code>. For more information, refer to Relation between reporting interval and recurrence</p>
filterType	integer	<p>The member is mandatory.</p> <p>Possible values:</p> <ul style="list-style-type: none"> – 0 - All endpoints – 1 - Only endpoints with blocked websites

- **Blocked Applications**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	The member is mandatory.

Name	Type	Description
		This value depends on the report occurrence. For more information, refer to Relation between reporting interval and recurrence

- **Blocked Websites**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	The member is mandatory. This value depends on the report occurrence. For more information, refer to Relation between reporting interval and recurrence
filterType	integer	The member is mandatory. Possible values: <ul style="list-style-type: none">– 0 - All endpoints– 1 - Only endpoints with blocked websites

- **Data Protection**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	The member is mandatory. This value depends on the report occurrence. For more information, refer to Relation between reporting interval and recurrence
filterType	integer	The member is mandatory. Possible values: <ul style="list-style-type: none">– 0 - All endpoints

Name	Type	Description
blockedEmails	boolean	<p>The member should be set only if <code>filterType</code> has the value 1.</p> <p>Possible values:</p> <ul style="list-style-type: none"> – True – False
blockedWebsites	boolean	<p>The member should be set only if <code>filterType</code> has the value 1.</p> <p>Possible values:</p> <ul style="list-style-type: none"> – True – False

● Device Control Activity

The object must contain these members:

Name	Type	Description
reportingInterval	integer	<p>The member is mandatory.</p> <p>This value depends on the report occurrence. For more information, refer to Relation between reporting interval and recurrence</p>

● Endpoint Protection Status

The object must contain these members:

Name	Type	Description
filterType	integer	<p>The member is mandatory.</p> <p>Possible values:</p> <ul style="list-style-type: none"> – 0 - All endpoints

Name	Type	Description
		<ul style="list-style-type: none">– 1 - Only endpoints filtered by the members described hereinafter.
antivirusOn	boolean	The member should be set only if <code>filterType</code> has the value 1. Possible values: <ul style="list-style-type: none">– <code>True</code>, to include in the report endpoints with antimalware protection enabled.– <code>False</code>, to exclude from the report endpoints with antimalware protection enabled.
antivirusOff	boolean	The member should be set only if <code>filterType</code> has the value 1. Possible values: <ul style="list-style-type: none">– <code>True</code>, to include in the report endpoints with antimalware protection disabled.– <code>False</code>, to exclude from the report endpoints with antimalware protection disabled.
updated	boolean	The member should be set only if <code>filterType</code> has the value 1. Possible values: <ul style="list-style-type: none">– <code>True</code>, to include in the report updated endpoints.– <code>False</code>, to exclude from the report updated endpoints.
disabled	boolean	The member should be set only if <code>filterType</code> has the value 1. Possible values: <ul style="list-style-type: none">– <code>True</code>, to include in the report endpoints with update disabled.– <code>False</code>, to exclude from the report endpoints with update disabled.

Name	Type	Description
outdated	boolean	<p>The member should be set only if <code>filterType</code> has the value 1.</p> <p>Possible values:</p> <ul style="list-style-type: none">– <code>True</code>, to include in the report outdated endpoints.– <code>False</code>, to exclude from the report outdated endpoints.
online	boolean	<p>The member should be set only if <code>filterType</code> has the value 1.</p> <p>Possible values:</p> <ul style="list-style-type: none">– <code>True</code>, to include in the report online endpoints.– <code>False</code>, to exclude from the report online endpoints.
offline	boolean	<p>The member should be set only if <code>filterType</code> has the value 1.</p> <p>Possible values:</p> <ul style="list-style-type: none">– <code>True</code>, to include in the report offline endpoints.– <code>False</code>, to exclude from the report offline endpoints.

- **Firewall Activity**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	<p>The member is mandatory.</p> <p>This value depends on the report occurrence. For more information, refer to Relation between reporting interval and recurrence</p>
filterType	integer	The member is mandatory.

Name	Type	Description
		<p>Possible values:</p> <ul style="list-style-type: none"> – 0 - All endpoints – 1 - Only endpoints with the following blocked threats: traffic attempts and port scans.
trafficAttempts	boolean	<p>This member should be set only if filterType has the value 1.</p> <p>Possible values:</p> <ul style="list-style-type: none"> – True, to include in the report endpoints with blocked traffic attempts. – False, to exclude from the report endpoints with blocked traffic attempts.
portScans	boolean	<p>This member should be set only if filterType has the value 1.</p> <p>Possible values:</p> <ul style="list-style-type: none"> – True, to include in the report endpoints with blocked port scans. – False, to exclude from the report endpoints with blocked port scans.

• Malware Activity

The object must contain these members:

Name	Type	Description
reportingInterval	integer	<p>This value depends on the report occurrence. For more information, refer to Relation between reporting interval and recurrence</p>
filterType	integer	<p>The member is mandatory.</p> <p>Possible values:</p> <ul style="list-style-type: none"> – 0 - All endpoints

Name	Type	Description
		<ul style="list-style-type: none">– 1 - Only endpoints with unresolved malware

- **Malware Status**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	<p>The member is mandatory.</p> <p>This value depends on the report occurrence. For more information, refer to Relation between reporting interval and recurrence</p>
filterType	integer	<p>The member is mandatory.</p> <p>Possible values:</p> <ul style="list-style-type: none">– 0 - All endpoints– 1 - Only endpoints still infected

- **Monthly License Usage**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	<p>The member is mandatory.</p> <p>This value depends on the report occurrence. For more information, refer to Relation between reporting interval and recurrence</p>
skipSummary	boolean	<p>The member is optional.</p> <p>An option defining if the CSV file of the Monthly License Usage report (<code>type = 13</code>) should include the Summary section. By default, the parameter is set to <code>False</code>, meaning the CSV file includes the Summary.</p>

- **AWS Monthly Usage**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	<p>The member is mandatory.</p> <p>This value depends on the report occurrence. For more information, refer to Relation between reporting interval and recurrence</p>

- **Network Status**

The object must contain these members:

Name	Type	Description
filterType	integer	<p>The member is mandatory.</p> <p>Possible values:</p> <ul style="list-style-type: none">– 0 - All endpoints– 1 - Only endpoints with issues– 2 - Only endpoints with unknown status

- **On demand scanning**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	<p>The member is mandatory.</p> <p>This value depends on the report occurrence. For more information, refer to Relation between reporting interval and recurrence</p>

- **Security Audit**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	<p>The member is mandatory.</p> <p>This value depends on the report occurrence.</p> <p>For more information, refer to Relation between reporting interval and recurrence</p>

- **Top 10 Detected Malware**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	<p>The member is mandatory.</p> <p>This value depends on the report occurrence.</p> <p>For more information, refer to Relation between reporting interval and recurrence</p>

- **Top 10 Infected Endpoints**

The object must contain these members:

Name	Type	Description
reportingInterval	integer	<p>The member is mandatory.</p> <p>This value depends on the report occurrence.</p> <p>For more information, refer to Relation between reporting interval and recurrence</p>

- **Update Status**

The object must contain these members:

Name	Type	Description
updated	boolean	<p>Possible values:</p> <ul style="list-style-type: none">– True, to include in the report updated endpoints.

Name	Type	Description
		<ul style="list-style-type: none">– <code>False</code>, to exclude from the report updated endpoints.
disabled	boolean	Possible values: <ul style="list-style-type: none">– <code>True</code>, to include in the report endpoints with update disabled.– <code>False</code>, to exclude from the report endpoints with update disabled.
outdated	boolean	Possible values: <ul style="list-style-type: none">– <code>True</code>, to include in the report outdated endpoints.– <code>False</code>, to exclude from the report outdated endpoints.
pendingRestart	boolean	Possible values: <ul style="list-style-type: none">– <code>True</code>, to include in the report endpoints that need to be restarted.– <code>False</code>, to exclude from the report endpoints that need to be restarted.

- **VM Network Protection Status**

The object must contain these members:

Name	Type	Description
filterType	integer	<p>The member is mandatory.</p> <p>Possible values:</p> <ul style="list-style-type: none">– 0 - All endpoints– 1 - Only protected endpoints

**Important**

The object should not be set for these reports:

- **Endpoint Modules Status**
- **License Status**
- **Upgrade Status**
- **Policy Compliance**
- **Security Server Status**

Relation between reporting interval and recurrence

occurrence	reportingInterval
2 - Hourly report	Possible values: <ul style="list-style-type: none">– 0 - Today
3 - Daily report	Possible values: <ul style="list-style-type: none">– 0 - Today– 1 - Last day– 2 - This Week
4 - Weekly report	Possible values: <ul style="list-style-type: none">– 0 - Today– 1 - Last day– 2 - This Week– 3 - Last Week– 4 - This Month <p>For 13 - Monthly License Usage and 24 - AWS Monthly Usage reports the possible value is only 4 - This Month.</p>
5 - Monthly report	Possible values: <ul style="list-style-type: none">– 0 - Today– 1 - Last day

occurrence	reportingInterval <ul style="list-style-type: none">- 2 - This week- 3 - Last week- 4 - This month- 5 - Last month- 6 - Last 2 months- 7 - Last 3 months- 8 - This year <p>For 13 - Monthly License Usage and 24 - AWS Monthly Usage reports the possible values are only 4 - This month, 5 - Last month and 8 - This year.</p>
6 - Yearly report	Possible values: <ul style="list-style-type: none">- 8 - This year- 9 - Last year

Return value

This method returns a String: the ID of the created report.

Example

Request :

```
{  
    "params": {  
        "name": "My Report hourly",  
        "type": 1,  
        "targetIds": ["559bd17ab1a43d241b7b23c6",  
                      "559bd17ab1a43d241b7b23c7"],  
        "scheduledInfo": {  
            "occurrence": 2,  
            "interval": 4  
        },  
        "emailList": ["user@company.com",  
                     "user2@company.com"]  
    }  
}
```

```
        "user2@company.com"]  
    },  
    "jsonrpc": "2.0",  
    "method": "createReport",  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f"  
}
```

Request :

```
{  
    "params": {  
        "name": "My Report daily",  
        "type": 8,  
        "targetIds": ["559bd17ab1a43d241b7b23c6",  
                      "559bd17ab1a43d241b7b23c7"],  
        "scheduledInfo": {  
            "occurrence": 3,  
            "startHour": 10,  
            "startMinute": 30  
        },  
        "options": {  
            "filterType": 1,  
            "antivirusOn": true,  
            "antivirusOff": false,  
            "updated": true,  
            "disabled": false,  
            "outdated": false,  
            "online": false,  
            "offline": true  
        }  
    },  
    "jsonrpc": "2.0",  
    "method": "createReport",  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f"  
}
```

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "result": "563c78e2b1a43d4043d60413"  
}
```

2.8.2. getReportsList

This method returns the list of scheduled reports, according to the parameters received.

Parameters

Parameter	Type	Optional	Description
name	String	Yes	The name of the report.
type	Number	Yes	<p>The report type. The available types are:</p> <ul style="list-style-type: none">● 1 - Antiphishing Activity● 2 - Blocked Applications● 3 - Blocked Websites● 5 - Data Protection● 6 - Device Control Activity● 7 - Endpoint Modules Status● 8 - Endpoint Protection Status● 9 - Firewall Activity● 11 - Malware Activity● 12 - Malware Status● 13 - Monthly License Usage● 14 - Network Status● 15 - On demand scanning● 16 - Policy Compliance

Parameter	Type	Optional	Description
			<ul style="list-style-type: none">● 17 - Security Audit● 18 - Security Server Status● 19 - Top 10 Detected Malware● 21 - Top 10 Infected Endpoints● 22 - Update Status● 23 - Upgrade Status● 24 - AWS Monthly Usage
page	Number	Yes	The results page number. Default page number is 1.
perPage	Number	Yes	The number of items displayed in a page. The upper limit is 100 items per page. Default value: 30 items per page.

Return value

This method returns an Object containing information about the reports. The returned object contains:

- `page` - the current page displayed
- `pagesCount` - the total number of available pages
- `perPage` - the total number of returned items per page
- `items` - the list of reports. Each entry in the list has the following fields:
 - `ID`, the ID of the report
 - `name`, the name of the report
 - `type`, the report type, as described in the Parameters table
 - `occurrence`, the time interval when the report runs. The occurrence can be: 2 - hourly, 3 - daily, 4 - weekly or 5 - monthly. Please mind that value 1 (instant report) is excluded from the valid options.
- `total` - the total number of items

Example

Request :

```
{  
    "params": {  
        "type": 2,  
        "page": 2,  
        "perPage": 4  
    },  
    "jsonrpc": "2.0",  
    "method": "getReportsList",  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f"  
}
```

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "result": {  
        "page": 2,  
        "pagesCount": 11,  
        "perPage": 5,  
        "total": 54  
        "items": [  
            {  
                'id': '5638cdceb1a43d46137b23c6',  
                'name': 'My report 1',  
                'occurrence': 2,  
                'type': 2  
            },  
            {  
                'id': '5638d7f8b1a43d49137b23c9',  
                'name': 'My report 2',  
                'occurrence': 4,  
                'type': 2  
            },  
            {  
                'id': '563b271bb1a43d21077b23c8',  
                'name': 'My report 3',  
            }  
        ]  
    }  
}
```

```
        'occurrence': 4,
        'type': 2
    },
    {
        'id': '563a289eb1a43d2f617b23c6',
        'name': 'My report 4',
        'occurrence': 2,
        'type': 2
    }
]
}
```

2.8.3. getDownloadLinks

This method returns an Object with information regarding the report availability for download and the corresponding download links.

The instant report is created one time only and available for download for less than 24 hours.

Scheduled reports are generated periodically and all report instances are saved in the GravityZone database.

Parameters

Parameter	Type	Optional	Description
reportId	String	No	The report ID

Return value

This method returns an Object containing information for downloading the report. The returned object contains:

- `readyForDownload` - boolean, True if the report is ready to be downloaded or False otherwise
- `lastInstanceUrl` - string, The URL for downloading the last instance of an instant or scheduled report. It will be present in the response only if

`readyForDownload` is `True`. The downloaded result is an archive with two files: a CSV and a PDF. Both files refer to the same last instance of the report.

Note

To access this URL, the HTTP basic authentication header (username:password pair) needs to be sent, where the username it is your API key and the password is a an empty string. For more information, refer to [1.3 Authentication](#) section for details.

- `allInstancesUrl` - string, The URL downloads an archive with all generated instances of the scheduled report. The field will be present in the response only if `readyForDownload` is `True` and the report is a scheduled one. The downloaded result is an archive with a pair of files for each instance of the report: a CSV and a PDF file. Both files refer to the same instance of the report.

Note

To access this URL, the HTTP basic authentication header (username:password pair) needs to be sent, where the username it is your API key and the password is a an empty string. For more information, refer to [1.3 Authentication](#) section for details.

Example

Request :

```
{  
    "params": {  
        "reportId": "5638d7f8b1a43d49137b23c9"  
    },  
    "jsonrpc": "2.0",  
    "method": "getDownloadLinks",  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87g"  
}
```

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",
```

```
"jsonrpc":"2.0",
"result": {
    "readyForDownload": True,
    "allInstancesUrl":
        "https://gravityzone.bitdefender.com/api/
v1.0/http/downloadReportZip?reportId=
5645cba6f12a9a8c5e8b4748&
allInstances=1&serviceType=1",
    "lastInstanceUrl":
        "https://gravityzone.bitdefender.com/api/
v1.0/http/downloadReportZip?reportId=
5645cba6f12a9a8c5e8b4748&
allInstances=0&serviceType=1"
}
}
```

Response :

```
{
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",
    "jsonrpc":"2.0",
    "result": {
        "readyForDownload": False
    }
}
```

Request :

Eg: Download the report using curl:

```
curl -f0 -u "YOUR_API_KEY:" \
https://gravityzone.bitdefender.com/api/v1.0/http/\
downloadReportZip?reportId=5645cba6f12a9a8c5e8b4748&\
allInstances=0&serviceType=1 > lastReportInstances.zip
```

Equivalent with:

```
curl -f0 -H "Authorization: Basic API_KEY_ENCODED_BASE64" \
```

```
https://YOUR-HOSTNAME/api/v1.0/http/\\ndownloadReportZip?reportId=5645cba6f12a9a8c5e8b4748&\\nallInstances=0&serviceType=1 > lastReportInstances.zip
```

Where API_KEY_ENCODED_BASE64 is your API key encoded using base64.

2.8.4. deleteReport

The method deletes a report by its ID.

Parameters

Parameter	Type	Optional	Description
reportId	String	No	The report ID

Return value

This method returns a Boolean: True when the report was successfully deleted.

Example

Request :

```
{\n    "params": {\n        "reportId": "5638d7f8b1a43d49137b23c9"\n    },\n    "jsonrpc": "2.0",\n    "method": "deleteReport",\n    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87g"\n}
```

Response :

```
{  
    "id": "787b5e36-89a8-4353-88b9-6b7a32e9c87f",  
    "jsonrpc": "2.0",  
    "result": True  
}
```

2.9. Push

The Event Push Service API includes several methods allowing the management of real time sent notifications.

- `setPushEventSettings` : configures which notifications should be pushed to the web service.
- `getPushEventSettings` : displays which events are sent to the web service.
- `sendTestPushEvent` : sends test event.
- `getPushEventStats` : displays various push event statistics and errors.
- `resetPushEventStats` : resets the push event statistics and errors.

API url: [CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/push](#)

2.9.1. setPushEventSettings

This method sets the push event settings.

Parameters

Parameter	Type	Optional	Description
status	Number	No	0 - disabled, 1 - enabled
serviceType	String	No	Type of the web service. Valid values: jsonRPC, splunk and cef
serviceSettings	Array	No	Specific settings for each service type. For information regarding the service settings, refer to " "Service Type Settings" (p. 106)

Parameter	Type	Optional	Description
subscribeToEventTypes	Array	No	List of event types to be sent to the web service

Service Type Settings

Service Type	Service Settings
jsonRPC	<ul style="list-style-type: none">• url - a String representing the Web service URL• requireValidSslCertificate - a Boolean to validate the SSL certificate of the web service: True to perform the validation, False otherwise
splunk	<ul style="list-style-type: none">• url - a String representing the Web service URL• requireValidSslCertificate - a Boolean to validate the SSL certificate of the web service: True to perform the validation, False otherwise• splunkAuthorization - a String representing the Splunk authorization header
cef	<ul style="list-style-type: none">• url - a String representing the Web service URL• requireValidSslCertificate - a Boolean to validate the SSL certificate of the web service: True to perform the validation, False otherwise• authorization - a String representing the CEF basic authorization header

Return value

This method returns a Boolean: True when the settings were saved successfully.

Example

Request :

```
{  
    "params": {  
        "status": 1,  
        "serviceType": "jsonRPC",  
        "serviceSettings": {  
            "url": "http://example.com",  
            "requireValidSslCertificate": true  
        }  
    },  
    "subscribeToEventTypes": {  
        "modules": true,  
        "sva": true,  
        "registration": true,  
        "supa-update-status": true,  
        "av": true,  
        "aph": true,  
        "fw": true,  
        "avc": true,  
        "uc": true,  
        "dp": true,  
        "sva-load": true,  
        "task-status": true,  
        "exchange-malware": true,  
        "network-sandboxing": true,  
        "adccloud": true,  
        "exchange-user-credentials": true  
    },  
    "jsonrpc": "2.0",  
    "method": "setPushEventSettings",  
    "id": "ad12cb61-52b3-4209-a87a-93a8530d91cb"  
}
```

Response :

```
{  
    "id": "ad12cb61-52b3-4209-a87a-93a8530d91cb",  
    "jsonrpc": "2.0",  
    "result": true  
}
```

2.9.2. getPushEventSettings

This method gets the push event settings.

Parameters

No input parameters are required.

Return value

This method returns an Object containing the push event settings

Example

Request :

```
{  
    "params": {},  
    "jsonrpc": "2.0",  
    "method": "getPushEventSetting",  
    "id": "ad12cb61-52b3-4209-a87a-93a8530d91cb"  
}
```

Response :

```
{  
    "id": "ad12cb61-52b3-4209-a87a-93a8530d91cb",  
    "jsonrpc": "2.0",  
    "result": {  
        "status": 1,  
        "serviceType": "jsonRPC",  
        "serviceSettings": {  
            "url": "http://example.com",  
            "requireValidSslCertificate": true  
        },  
        "subscribeToEventTypes": {  
            "modules": true,  
            "sva": true,  
            "registration": true,  
            "supa-update-status": true,  
            "av": true,  
            "av": true  
        }  
    }  
}
```

```
        "aph": true,
        "fw": true,
        "avc": true,
        "uc": true,
        "dp": true,
        "sva-load": true,
        "task-status": true,
        "exchange-malware": true,
        "network-sandboxing": true,
        "adcloud": true,
        "exchange-user-credentials": true
    }
}
}
```

2.9.3. sendTestPushEvent

This method sends a test event.

Parameters

Parameter	Type	Optional	Description
eventType	String	No	Event type
data	Object	No	Test events are created from templates. This parameter can be used to replace data in the event template

Return value

This method returns an Object containing An object with two keys: success (boolean) - true if the event was queued for sending and event (object) - the sent event. This parameter is optional.

Example

Request :

```
{  
    "params": {  
        "eventType": "av",  
        "data": {  
            "malware_name": "Test malware name"  
        }  
    },  
    "jsonrpc": "2.0",  
    "method": "sendTestPushEvent",  
    "id": "ad12cb61-52b3-4209-a87a-93a8530d91cb"  
}
```

Response :

```
{  
    "id": "ad12cb61-52b3-4209-a87a-93a8530d91cb",  
    "jsonrpc": "2.0",  
    "result": {  
        "companyId": "59a14b271da197c6108b4567",  
        "computer_name": "FC-WIN7-X64-01",  
        "computer_fqdn": "fc-win7-x64-01",  
        "computer_ip": "10.17.46.196",  
        "computer_id": "59a1604e60369e06733f8abb",  
        "product_installed": "BEST",  
        "malware_type": "file",  
        "malware_name": "Test malware name",  
        "file_path": "C:\\\\eicar000001.txt",  
        "hash": "8b3f191819931d1f2cef7289239b5f77c00b079847b9c2636e56",  
        "final_status": "deleted",  
        "timestamp": "2017-09-08T12:01:36.000Z",  
        "module": "av",  
        "_testEvent_": true  
    }  
}
```

2.9.4. getPushEventStats

This method gets the push event statistics and errors.

Parameters

No input parameters are required.

Return value

This method returns an Object containing the push event statistics.

Example

Request :

```
{  
    "params": {},  
    "jsonrpc": "2.0",  
    "method": "getPushEventStats",  
    "id": "ad12cb61-52b3-4209-a87a-93a8530d91cb"  
}
```

Response :

```
{  
    "id": "ad12cb61-52b3-4209-a87a-93a8530d91cb",  
    "jsonrpc": "2.0",  
    "result": {  
        "count": {  
            "events": 6945,  
            "testEvents": 8,  
            "sentMessages": 8,  
            "errorMessages": 0  
        },  
        "error": {  
            "connectionError": 0,  
            "statusCode300": 0,  
            "statusCode400": 0,  
            "statusCode500": 0,  
            "timeout": 0  
        },  
        "lastUpdateTime": "2017-10-13T18:45:28"  
    }  
}
```

```
}
```

2.9.5. resetPushEventStats

This method resets the push event statistics and errors.

Parameters

No input parameters are required.

Return value

This method returns a Boolean: True when the statistics were reset successfully.

Example

Request :

```
{
    "params": {},
    "jsonrpc": "2.0",
    "method": "resetPushEventStats",
    "id": "ad12cb61-52b3-4209-a87a-93a8530d91cb"
}
```

Response :

```
{
    "id": "ad12cb61-52b3-4209-a87a-93a8530d91cb",
    "jsonrpc": "2.0",
    "result": true
}
```

2.9.6. Event Types

This table shows the meaning of each variable in the JSON and to which event types they are associated in Control Center.

Event type identifier	Description
modules	Product Modules event
sva	Security Server Status event
registration	Product Registration event
supa-update-status	Outdated Update Server event (where the Update Server is a Relay)
av	Antimalware event
aph	Antiphishing even
fw	Firewall event
avc	ATC/IDS event
uc	User Control event
dp	Data Protection event
hd	Hyper Detect event
sva-load	Overloaded Security Server event
task-status	Task Status event
exchange-malware	Exchange Malware Detection event
network-sandboxing	Sandbox Analyzer Detection
adcloud	Active Directory Integration Issue
exchange-user-credentials	Exchange User Credentials

2.9.7. Push event JSON RPC messages

Events are submitted in calls to the "addEvents" function. This function takes one parameter: "events", which is an array of event objects documented below.

HTTP requests can be verified using the Event-Push-Service-Md5 header. The header is obtained by hashing the Api Key and the message body as follows:
header_value = md5(api_key, md5(message_body))

Cloud AD Integration

This event is generated when Control Center is synchronizing with an Active Directory domain.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "adcloud"
companyId	string	yes	Company identifier
syncerId	string	yes	AD Integrator identifier
issueType	integer	yes	AD Synchronization issue type
isProtectedEntityId	integer	no	Is protected entity id (only for uninstall)
lastAdReportDate	timestamp	no	Last AD synchronization date

Example :

```
{
  "jsonrpc": "2.0",
  "method": "addEvents",
  "params": {
    "events": [
      {
        "companyId": "59a14b271da197c6108b4567",
        "syncerId": "59b7d9bfa849af3a1465b7e3",
        "issueType": 0,
        "lastAdReportDate": "2017-09-14T08:03:49.671Z",
        "module": "adcloud"
      }
    ],
    "id": 1505376232077
  }
}
```

Antiphishing

This event occurs when the endpoint agent blocks a known phishing web page from being accessed.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "aph"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
aph_type	string	yes	Values: phishing, fraud, untrust
url	string	yes	Malware url
status	string	yes	Always "aph_blocked"
last_blocked	timestamp	yes	Last timestamp this malware was blocked
count	integer	yes	How many times this malware was detected

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [  
            {  
                "companyId": "59a14b271da197c6108b4567",  
                "computer_name": "FC-EXCHANGE-01",  
                "module": "aph",  
                "product_installed": "BEST",  
                "status": "aph_blocked",  
                "url": "http://www.phishingsite.com/phishingpage.html"  
            }  
        ]  
    }  
}
```

```
        "computer_fqdn": "fc-exchange-01.fc.dom",
        "computer_ip": "192.168.0.1",
        "computer_id": "59b7d9bfa849af3a1465b7e4",
        "product_installed": "BEST",
        "aph_type": "phishing",
        "url": "http://example.com/account/support/",
        "status": "aph_blocked",
        "last_blocked": "2017-09-14T08:49:43.000Z",
        "count": 1,
        "module": "aph"
    }
]
},
"id": 1505378984190
}
```

Antimalware

This event generated each time Bitdefender detects malware on an endpoint in your network.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "av"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
malware_type	string	yes	Type of the detected malware: file, http, cookie, pop3, smtp, process, boot, registry, stream

Name	Type	Mandatory	Description
malware_name	string	yes	Malware name
hash	string	no	Malware file sha256 hash
final_status	string	yes	Final status of the action taken on the file: ignored, still present, deleted, blocked, quarantined, disinfected, restored
file_path	string	yes	Malware file path
timestamp	timestamp	yes	Timestamp when the malware was detected

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [  
            {  
                "companyId": "59a14b271da197c6108b4567",  
                "computer_name": "FC-WIN7-X64-01",  
                "computer_fqdn": "fc-win7-x64-01",  
                "computer_ip": "10.17.46.196",  
                "computer_id": "59a1604e60369e06733f8abb",  
                "product_installed": "BEST",  
                "malware_type": "file",  
                "malware_name": "EICAR-Test-File (not a virus)",  
                "file_path": "C:\\eicar000001.txt",  
                "hash": "8b3f191819931d1f2cef7289239b5f77c00b079  
847b9c2636e56854d1e5eff71",  
                "final_status": "deleted",  
                "timestamp": "2017-09-08T12:01:36.000Z",  
                "module": "av"  
            }  
        ]  
    },  
    "id": 1504872097787  
}
```

Advanced Threat Control and Intrusion Detection System (ATC/IDS)

This event is created whenever a potentially dangerous applications is detected and blocked on an endpoint.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "avc"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
exploit_type	string	yes	Values: IDS Blocked APP, AVC Blocked APP, AVC Blocked Exploit
exploit_path	string	yes	Exploit file path
status	string	yes	Always "avc_blocked"
last_blocked	timestamp	yes	Last timestamp this application/exploit was blocked
count	integer	yes	How many times this application/exploit was detected

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [  
            {
```

```
        "companyId": "59a14b271da197c6108b4567",
        "computer_name": "FC-WIN7-X64-01",
        "computer_fqdn": "fc-win7-x64-01",
        "computer_ip": "192.168.0.1",
        "computer_id": "59a1604e60369e06733f8abb",
        "product_installed": "BEST",
        "exploit_type": "AVC Blocked Exploit",
        "exploit_path": "C:\\Users\\admin\\Desktop\\Tools\\avcsim\\win32\\avcsim32.exe",
        "status": "avc_blocked",
        "last_blocked": "2017-09-14T07:56:33.000Z",
        "count": 1,
        "module": "avc"
    }
]
},
"id": 1505375801845
}
```

Data Protection

This event is generated each time the data traffic is blocked on an endpoint, according to data protection rules.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "dp"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
target_type	string	yes	Malware type: mail, http

Name	Type	Mandatory	Description
blocking_rule_name	string	yes	Data protection rule name
url	string	yes	Url
status	string	yes	Always "data_protection_blocked"
last_blocked	timestamp	yes	Last timestamp this email/url was blocked
count	integer	yes	How many times this malware was detected

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [  
            {  
                "companyId": "59a14b271da197c6108b4567",  
                "computer_name": "FC-WIN7-X64-01",  
                "computer_fqdn": "fc-win7-x64-01",  
                "computer_ip": "192.168.0.1",  
                "computer_id": "59a1604e60369e06733f8abb",  
                "product_installed": "BEST",  
                "target_type": "http",  
                "blocking_rule_name": "dv",  
                "url": "http://example.com/",  
                "status": "data_protection_blocked",  
                "last_blocked": "2017-09-11T10:23:43.000Z",  
                "count": 1,  
                "module": "dp"  
            }  
        ]  
    },  
    "id": 1505125464691  
}
```

Exchange Malware Detection

This event is created when Bitdefender detects malware on an Exchange server in your network.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "exchange-malware"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
endpointId	string	yes	Endpoint identifier
serverName	string	yes	Server name
sender	string	yes	Email sender
recipients	array	yes	List of email recipients (array of strings)
subject	string	yes	Email subject
detectionTime	timestamp	yes	Detection time
malware	array	yes	List of detected malware (array of {"malwareName": string, "malwareType": string, "actionTaken": string, "infectedObject": string})

Example :

```
{  
  "jsonrpc": "2.0",  
  "method": "addEvents",  
  "params": {  
    "events": [ {  
      "serverName": "EXCHANGESERVER",  
      "detectionTime": "2018-01-12T12:00:00Z",  
      "sender": "user@domain.com",  
      "subject": "Malicious attachment found",  
      "recipients": ["user2@domain.com"],  
      "malware": [ {  
        "malwareName": "Win32/JS.Malicious",  
        "malwareType": "Script",  
        "actionTaken": "Quarantine",  
        "infectedObject": "attachment.pdf"  
      } ]  
    } ]  
  }  
}
```

```
"params": {
    "events": [
        {
            "companyId": "59a14b271da197c6108b4567",
            "computer_name": "FC- EXCHANGE - 01",
            "computer_fqdn": "fc- exchange - 01.fc.dom",
            "computer_ip": "192.168.0.1",
            "computer_id": "59b7d9bfa849af3a1465b7e4",
            "product_installed": "BEST",
            "endpointId": "59b7d9bfa849af3a1465b7e3",
            "serverName": "FC- EXCHANGE - 01",
            "sender": "fc_test01@fc.dom",
            "recipients": [
                "fc_test02@fc.dom"
            ],
            "subject": "Emailing Sending.. WL - cbe100c9f42a20ef9a4b1c20ed1a59f9 - 0",
            "detectionTime": "2017- 09 - 13T14: 20:37.000Z",
            "malware": [
                {
                    "malwareName": "Trojan.Generic.KD.874127",
                    "malwareType": "virus",
                    "actionTaken": "quarantine",
                    "infectedObject": "WL- cbe100c9f42a20ef9a4b1c20ed1a59f9 - 0"
                }
            ],
            "module": "exchange-malware"
        }
    ],
    "id": 1505312459584
}
```

Exchange License Usage Limit Has Been Reached

This event is generated when Exchange License limit has been reached.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "exchange-organization-info"
companyId	string	yes	Company identifier

Exchange User Credentials

This event is generated when an on-demand scan task could not start on the target Exchange server due to invalid user credentials. To complete the task, you need to change your Exchange credentials.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "exchange-user-credentials"
companyId	string	yes	Company identifier
endpointId	string	yes	Endpoint identifier

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [  
            {  
                "companyId": "59a14b271da197c6108b4567",  
                "endpointId": "59b7d9bfa849af3a1465b7e3",  
                "module": "exchange-user-credentials"  
            }  
        ]  
    },  
    "id": 1505387661508  
}
```

Firewall

This event is generated when the endpoint agent blocks a port scan or an application from accessing the network, according to the applied policy.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "fw"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
status	string	yes	Status
local_port	string	no	Local port
protocol_id	string	no	Protocol identifier
application_path	string	no	Application path
source_ip	string	no	Source ip address
last_blocked	timestamp	yes	Last timestamp this connection was blocked
count	integer	yes	How many times this connection was detected

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [
```

```
{  
    "companyId": "59a14b271da197c6108b4567",  
    "computer_name": "FC-WIN7-X64-01",  
    "computer_fqdn": "fc-win7-x64-01",  
    "computer_ip": "192.168.0.1",  
    "computer_id": "59a1604e60369e06733f8abb",  
    "product_installed": "BEST",  
    "status": "portscan_blocked",  
    "protocol_id": "6",  
    "source_ip": "192.168.0.2",  
    "last_blocked": "2017-09-08T12:52:03.000Z",  
    "count": 1,  
    "module": "fw"  
}  
}  
]  
,  
"id": 1504875129648  
}
```

Hyper Detect

Event generated when a malware is detected by the Hyper Detect module.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "hd"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer

Name	Type	Mandatory	Description
malware_type	string	yes	Type of the detected malware: file, http, cookie, pop3, smtp, process, boot, registry, stream
malware_name	string	yes	Malware name
hash	string	no	Malware file sha256 hash
final_status	string	yes	Final status of the action taken on the file: ignored, still present, deleted, blocked, quarantined, disinfected, restored
file_path	string	yes	Malware file path
attack_type	string	no	Values: targeted attack, grayware, exploits, ransomware, suspicious files and network traffic
detection_level	string	no	Values: permissive, normal, aggressive
is_fileless_attack	boolean	no	True for fileless attack
command_line_parameters	string	no	Command line parameters
hwid	string	yes	Heuristic hardware identifier
date	timestamp	yes	Timestamp when the malware was detected

Example :

```
{
    "jsonrpc": "2.0",
    "method": "addEvents",
    "params": {
        "events": [
            {
                "module": "hd",
                "product_installed": "EPS",
                "category": "File"
            }
        ]
    }
}
```

```
"user": {
    "name": "admin",
    "sid": "BF410F3B-5F3A-41E1-BF8F-28DE6948A355"
},
"computer_name": "DHMSI",
"computer_fqdn": "dhmsi",
"computer_ip": "10.10.18.226",
"computer_id": "5c4999491ddfad7177316f80",
"malware_type": "file",
"malware_name": "",
"hash": "hash_3",
"final_status": "quarantined",
"file_path": "44e695d9ed259aea10e5b57145d0d0dc.b
ender",
"attack_type": "suspicious files and network tra
ffic",
"detection_level": "normal",
"is_fileless_attack": 1,
"command_line_parameters": "a b c",
"hwid": "00000000-0000-0000-406186b5bdbd",
"companyId": "5c497704f9bf8d0b1b4df494",
"date": "2019-01-24T11:13:04.000Z"
}
],
},
"id": 1547719287349
}
```

Product Modules Status

This event is generated when a security module of the installed agent gets enabled or disabled.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "modules"

Name	Type	Mandatory	Description
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
malware_status	boolean	no	Antimalware module
aph_status	boolean	no	Antiphishing module
firewall_status	boolean	no	Firewall module
avc_status	boolean	no	Active Threat Control module
ids_status	boolean	no	Intrusion detection system module
uc_web_filtering	boolean	no	Content Control Web Access Control module
uc_categ_filtering	boolean	no	Content Control Web Categories Filtering module
uc_application_status	boolean	no	Content Control Application Blacklisting module
dp_status	boolean	no	Content Control Data Protection module
pu_status	boolean	no	Power User module
dlp_status	boolean	no	Device Control module
exchange_av_status	boolean	no	Exchange Protection Antimalware module
exchange_as_status	boolean	no	Exchange Protection Antispam module
exchange_at_status	boolean	no	Exchange Protection Attachment filtering module

Name	Type	Mandatory	Description
exchange_cf_status	boolean	no	Exchange Protection Content filtering module
exchange_od_status	boolean	no	Exchange Protection On demand scan module
volume_encryption	boolean	no	Encryption module
patch_management	boolean	no	Patch management module

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [  
            {  
                "company_id": "59a14b271da197c6108b4567",  
                "computer_name": "FC- WIN7 - X64 - 01",  
                "computer_fqdn": "fc- win7 - x64 - 01",  
                "computer_ip": "192.168.0.1",  
                "computer_id": "59a1604e60369e06733f8abb",  
                "product_installed": "BEST",  
                "malware_status": 1,  
                "aph_status": 1,  
                "firewall_status": 1,  
                "avc_status": 1,  
                "uc_web_filtering": 0,  
                "uc_categ_filtering": 0,  
                "uc_application_status": 0,  
                "dp_status": 0,  
                "pu_status": 1,  
                "dlp_status": 0,  
                "module": "modules"  
            }  
        ]  
    },  
    "id": 1504871857671  
}
```

Sandbox Analyzer Detection

This event is generated each time Sandbox Analyzer detects a new threat among the submitted files.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "network-sandboxing"
companyId	string	yes	Company identifier
endpointId	string	yes	Endpoint identifier
computerName	string	yes	Computer name
computerIp	string	yes	Computer IP address
detectionTime	integer	yes	Detection time
threatType	string	yes	Threat type
filePaths	array	yes	File paths (array of strings)
fileSizes	array	yes	File sizes (array of strings)
remediationActions	array	yes	Remediation actions (array of strings)

Example :

```
{
  "jsonrpc": "2.0",
  "method": "addEvents",
  "params": {
    "events": [
      {
        "companyId": "59a14b271da197c6108b4567",
        "endpointId": "59a1604e60369e06733f8aba",
        "computerName": "FC-WIN7-X64-01",
        "computerIp": "192.168.0.1",
        "detectionTime": 1505386969,
        "threatType": "RANSOMWARE",
        "filePaths": [
          "C:\\\\Users\\\\Administrator\\\\Documents\\\\installer.xml",
          "C:\\\\Users\\\\Administrator\\\\Documents\\\\installer.exe"
        ]
      }
    ]
  }
}
```

```
        "D:\\opt\\bitdefender\\installer2.xml",
        "D:\\sources\\console\\CommonConsole\\app\\modules\\policies\\view\\endpoints\\networkSandboxing\\installer3.xml"
    ],
    "fileSizes": [
        "2614",
        "2615",
        "2616"
    ],
    "remediationActions": [
        "1",
        "",
        "1"
    ],
    "module": "network-sandboxing"
}
]
},
"id": 1505386971126
}
```

Product Registration

This event is generated when the registration status of an agent installed in your network has changed.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "registration"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address

Name	Type	Mandatory	Description
computer_id	string	yes	Unique identifier of the computer
product_registration	string	yes	Values: registered, unregistered

Example :

```
{
  "jsonrpc": "2.0",
  "method": "addEvents",
  "params": {
    "events": [
      {
        "companyId": "59a14b271da197c6108b4567",
        "computer_name": "FC-EXCHANGE-01",
        "computer_fqdn": "fc-exchange-01.fc.dom",
        "computer_ip": "192.168.0.1",
        "computer_id": "59b7d9bfa849af3a1465b7e4",
        "product_installed": "BEST",
        "product_registration": "registered",
        "module": "registration"
      }
    ]
  },
  "id": 1505221060168
}
```

Outdated Update Server

This event is generated when an update server has outdated malware signatures.

Parameters :

Name	Type	Mandatory	Description
fromSupa	boolean	yes	Identifies events sent from Relays (always true)
module	string	yes	BEST module that generated the event: "supa-update-status"

Name	Type	Mandatory	Description
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
status	boolean	yes	Update status

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [  
            {  
                "companyId": "59a14b271da197c6108b4567",  
                "computer_name": "FC-WIN7-X64-01",  
                "computer_fqdn": "fc-win7-x64-01",  
                "computer_ip": "192.168.0.1",  
                "computer_id": "59a1604e60369e06733f8abb",  
                "product_installed": "BEST",  
                "status": 0,  
                "fromSupa": 1,  
                "module": "supa-update-status"  
            }  
        ]  
    },  
    "id": 1505379714808  
}
```

Overloaded Security Server

This event is generated when the scan load on a Security Server in your network exceeds the defined threshold.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "sva-load"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
loadAverage	integer	yes	Load average
cpuUsage	integer	yes	Cpu usage
memoryUsage	integer	yes	Memory usage
networkUsage	integer	yes	Network usage
overallUsage	integer	yes	Overall usage

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [  
            {  
                "companyId": "59a14b271da197c6108b4567",  
                "computer_name": "bitdefender-sva",  
                "computer_fqdn": "bitdefender-sva",  
                "computer_ip": "192.168.0.1",  
                "computer_id": "59b8f3aba849af3a1465b81e",  
                "product_installed": "SVA",  
                "loadAverage": 1,  
                "cpuUsage": 48,
```

```
        "memoryUsage": 32,
        "networkUsage": 0,
        "overallUsage": 48,
        "module": "sva-load"
    }
]
},
"id": 1505293227782
}
```

Security Server Status

This event is created when the status of a certain Security Server changes. The status refers to power (powered on/power off), product update, signatures update and reboot required.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "sva"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
company_id	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
powered_off	boolean	yes	Powered off
product_update_available	boolean	no	Product update available
signature_update	timestamp	no	Last signatures update timestamp
product_reboot_required	boolean	no	True if a reboot is required

Name	Type	Mandatory	Description
lastupdate	string	no	Last update
lastupdateerror	string	no	Last update error
updatesigam	string	no	Security Server engines version

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [  
            {  
                "companyId": "59a14b271da197c6108b4567",  
                "computer_name": "bitdefender-sva",  
                "computer_fqdn": "bitdefender-sva",  
                "computer_ip": "192.168.0.1",  
                "computer_id": "59b8f3aba849af3a1465b81e",  
                "product_installed": "SVA",  
                "powered_off": 0,  
                "product_update_available": 1,  
                "product_reboot_required": 0,  
                "lastupdate": "0",  
                "updatesigam": "7.72479",  
                "module": "sva"  
            }  
        ]  
    },  
    "id": 1505293227782  
}
```

Task Status

This event is generated each time a task status changes.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "task-status"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
userId	string	yes	User identifier
taskId	string	yes	Task identifier
taskName	string	yes	Task name
taskType	integer	yes	Task type
targetName	string	yes	Task name
isSuccessful	boolean	yes	True if the task was executed successfully
status	integer	yes	Task status
errorMessage	string	yes	Error message
errorCode	integer	yes	Error code

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [  
            {  
                "companyId": "59a14b271da197c6108b4567",  
                "computer_name": "FC-WIN7-X64-01",  
                "computer_fqdn": "fc-win7-x64-01",  
                "computer_ip": "192.168.0.1",  
                "taskName": "Scan",  
                "taskType": 1,  
                "targetName": "C:\Windows",  
                "isSuccessful": true,  
                "status": 0,  
                "errorMessage": "",  
                "errorCode": 0  
            }  
        ]  
    }  
}
```

```
        "computer_id": "59a1604e60369e06733f8abb",
        "product_installed": "BEST",
        "userId": "59a14b2b1da197c6108b4568",
        "taskId": "59b28dc81da19711058b4568",
        "taskName": "Quick Scan 2017-09-08(sub-task)",
        "taskType": 272,
        "targetName": "FC-WIN7-X64-01",
        "isSuccessful": 1,
        "status": 3,
        "errorMessage": "",
        "errorCode": 0,
        "module": "task-status"
    }
]
},
"id": 1504874269032
}
```

User Control/Content Control

This event is generated when a user activity such as web browsing of software application is blocked on the endpoint according to the applied policy.

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "uc"
product_installed	string	yes	Identifier for the installed product. For example: "BEST" identifies a client with BEST (virtual or physical)
companyId	string	yes	Company identifier
computer_name	string	yes	Computer name
computer_fqdn	string	yes	FQDN
computer_ip	string	yes	IP address
computer_id	string	yes	Unique identifier of the computer
uc_type	string	no	Values: application, http

Name	Type	Mandatory	Description
url	string	no	Url
block_type	string	no	Values: application, http_timelimiter, http_blacklist, http_categories, http_bogus, http_antimalware
categories	string	no	Values: WebProxy, Games, Tabloids, Hate, Gambling, Drugs, Illegal, Shopping, OnlinePay, Video, SocialNetwork, OnlineDating, IM, SearchEngines, RegionalTLDs, News, Pornography, MatureContent, Blog, FileSharing, Narcotics, VideoOnline, Religious, Suicide, Health, ViolentCartoons, Weapons, Hacking, Scams, CasualGames, OnlineGames, ComputerGames, PhotosOnline, Ads, Advice, Bank, Business, ComputerAndSoftware, Education, Entertainment, Government, Hobbies, Hosting, JobSearch, Portals, RadioMusic, Sports, TimeWasters, Travel, WebMail
application_path	string	no	Application path
status	string	no	Values: uc_application_blocked, uc_site_blocked
last_blocked	timestamp	no	Last timestamp this malware was blocked
count	integer	no	How many times this malware was detected

Example :

```
{
  "jsonrpc": "2.0",
  "method": "addEvents",
  "params": {
```

```
"events": [
    {
        "companyId": "59a14b271da197c6108b4567",
        "computer_name": "FC-WIN7-X64-01",
        "computer_fqdn": "fc-win7-x64-01",
        "computer_ip": "192.168.0.1",
        "computer_id": "59a1604e60369e06733f8abb",
        "product_installed": "BEST",
        "uc_type": "http",
        "url": "http://192.168.0.1:2869/upnphost/udhisapi.dll",
        "block_type": "http_timelimiter",
        "categories": "",
        "status": "uc_site_blocked",
        "last_blocked": "2017-09-08T12:46:30.000Z",
        "count": 1,
        "module": "uc"
    }
],
"id": 1504874799367
}
```

Storage Antimalware Event

This event is generated each time SVA detects a new threat among the protected storage (NAS).

Parameters :

Name	Type	Mandatory	Description
module	string	yes	BEST module that generated the event: "storage-antimalware"
companyId	string	yes	Company identifier
endpointId	string	yes	Endpoint identifier
computer_name	string	yes	Computer name
storage_name	string	yes	The name of the storage unit.
storage_ip	string	yes	The ip address of the storage unit.

Name	Type	Mandatory	Description
storage_type	string	yes	The type of the storage unit.(E.g., Nutanix, Citrix etc.)
file_path	string	yes	File path
file_hash	string	yes	File hash
malware_type	string	yes	Describes the type of malware as defined by Bitdefender. Possible values are: 'file', 'http', 'cookie', 'pop3', 'smtp', 'process', 'boot', 'registry' and 'stream'.
malware_name	string	yes	Name of the malware as defined by Bitdefender
status	string	yes	Status
detection_time	timestamp	yes	Time of the event as reported by the product, already formatted in a string representation.

Example :

```
{  
    "jsonrpc": "2.0",  
    "method": "addEvents",  
    "params": {  
        "events": [  
            {  
                "companyId": "59a14b271da197c6108b4567",  
                "endpointId": "59a1604e60369e06733f8aba",  
                "computerName": "SVA_WITH_ICAP",  
                "storage_name": "fileserver001",  
                "storage_ip": "192.168.0.1",  
                "storage_type": "Nutanix",  
                "file_path": "C:\\\\Users\\\\Administrator\\\\Document  
s\\\\installer.xml",  
                "file_hash": "04d7cff845e23111633cc0a268634f5e6c  
18145d0a9b5a38dedd8a58a422001c",  
                "malware_type": "1",  
                "malware_name": "BAT.Trojan.FormatC.Z",  
                "status": "5",  
            }  
        ]  
    }  
}
```

```
        "detection_time": "2018-05-07T10:23:43.000Z",
        "module": "storage-antimalware"
    }
],
},
"id": 1505386971126
}
```

2.10. Incidents

The Incidents API includes the following methods allowing the management of Endpoint and Detection (EDR) features:

- `addToBlocklist` : adds a new hash to the Blocklist.
- `getBlocklistItems` : lists existing Blocklist items.
- `removeFromBlocklist` : removes a specific entry from the Blocklist.
- `createIsolateEndpointTask` : creates a task to isolate an endpoint.
- `createRestoreEndpointFromIsolationTask` : creates a task to restore an isolated endpoint.

API url: [CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/incidents](#)

2.10.1. addToBlocklist

Use this method to add one or more file hashes to the Blocklist.

Parameters

Parameter	Type	Optional	Description
hashType	Number	No	the algorithm used to obtain the hash. Possible values: 1 - SHA256, 2 - MD5
hashList	Array	No	An array containing several hashes. All hashes must be of the type specified by the <code>hashType</code> parameter.
sourceInfo	String	No	A description for the hashes.

Return value

This method returns a Boolean: True if the operation was successful.

Example

Request :

```
{  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810"  
    "jsonrpc": "2.0",  
    "method": "addToBlocklist",  
    "params": {  
        "hashType" : 2,  
        "hashList": ["5b7ac19bb1a43dfb107b23c6",  
                    "f696282aa4cd4f614aa995190cf442fe"],  
        "sourceInfo": "Added from public API"  
    }  
}
```

Response :

```
{  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810",  
    "jsonrpc": "2.0",  
    "result": true  
}
```

2.10.2. getBlocklistItems

This method lists all the hashes that are present in the blocklist.

Parameters

Parameter	Type	Optional	Description
page	Number	Yes	The results page number. The default value is 1.

Parameter	Type	Optional	Description
perPage	Number	Yes	The number of items displayed in a page. The upper limit is 100 items per page. Default value: 30 items per page.

Return value

This method returns an Object containing information on the blocked items. The returned object contains:

- `page` - the current page displayed
- `pagesCount` - the total number of available pages
- `perPage` - the total number of returned items per page
- `items` - the list of blocklist items. Each entry in the list has the following fields:
 - `id`, the ID of the hash item in the Blocklist.
 - `hashType`, the algorithm used to obtain the hash. Possible values: 1 - SHA256, 2 - MD5
 - `hash`, the hash value for a specific file.
 - `source`, the source from where the hash entry hash originated. Possible values: 1 - Incident, 2 - Import, 3 - Manual.
 - `sourceInfo`, the description of the item, as the user provided when adding the item to the Blocklist.
 - `filename`, the name of file corresponding to the hash. This field is only displayed if this information exists.
 - `companyId`, the ID of your company associated with this item in the Blocklist.
- `total` - the total number of items

Example

Request :

```
{  
    "params": {},  
    "jsonrpc": "2.0",  
    "method": "getBlocklistItems",  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810"
```

}

Response :

```
{  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810",  
    "jsonrpc": "2.0",  
    "result": {  
        "items": [  
            {  
                "companyId": "5b680f6fb1a43d860a7b23c8",  
                "hash": "098f6bcd4621d373cade4e832627b4f6",  
                "hashType": 2,  
                "id": "5b7ac19bb1a43dfb107b23c6",  
                "source": 3,  
                "sourceInfo": "Added from public API"  
            },  
            {  
                "companyId": "5b680f6fb1a43d860a7b23c8",  
                "filename": "file.txt",  
                "hash": "f696282aa4cd4f614aa995190cf442fe",  
                "hashType": 2,  
                "id": "5b7ac19bb1a43dfb107b23c7",  
                "source": 1,  
                "sourceInfo": "Added from incident 1"  
            }  
        ],  
        "page": 1,  
        "pagesCount": 1,  
        "perPage": 30,  
        "total": 2  
    }  
}
```

2.10.3. removeFromBlocklist

This method removes an item from the Blocklist, identified by its ID.

Parameters

Parameter	Type	Optional	Description
hashItemId	String	No	the ID of the item in the Blocklist to be deleted

Return value

This method returns a Boolean: True if the operation was successful.

Example

Request :

```
{  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810",  
    "jsonrpc": "2.0",  
    "method": "removeFromBlocklist",  
    "params": {  
        "hashItemId" : "5b680f6fb1a43d860a7b23c1"  
    }  
}
```

Response :

```
{  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810",  
    "jsonrpc": "2.0",  
    "result": true  
}
```

2.10.4. createIsolateEndpointTask

This method creates a task to isolate the specified endpoint.

Parameters

Parameter	Type	Optional	Description
endpointId	String	No	the ID of the endpoint to be isolated

Return value

This method returns a Boolean: True if the operation was successful.

Example

Request :

```
{  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810",  
    "jsonrpc": "2.0",  
    "method": "createIsolateEndpointTask",  
    "params": {  
        "endpointId" : "5b680f6fb1a43d860a7b23c1"  
    }  
}
```

Response :

```
{  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810",  
    "jsonrpc": "2.0",  
    "result": true  
}
```

2.10.5. createRestoreEndpointFromIsolationTask

This method creates a task to restore the specified endpoint from isolation.

Parameters

Parameter	Type	Optional	Description
endpointId	String	No	the ID of the endpoint to be restored

Return value

This method returns a Boolean: True if the operation was successful.

Example

Request :

```
{  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810",  
    "jsonrpc": "2.0",  
    "method": "createRestoreEndpointFromIsolationTask",  
    "params": {  
        "endpointId" : "5b680f6fb1a43d860a7b23c1"  
    }  
}
```

Response :

```
{  
    "id": "0df7568c-59c1-48e0-a31b-18d83e6d9810",  
    "jsonrpc": "2.0",  
    "result": true  
}
```

2.11. Quarantine

The Quarantine API contains the following methods allowing the management of quarantined items.

- [getQuarantineItemsList](#) : retrieves the list of available quarantined items related to a company.

- `createRemoveQuarantineItemTask` : creates a task to remove quarantined items.
- `createEmptyQuarantineTask` : creates a task to empty the quarantined items list.
- `createRestoreQuarantineItemTask` : creates a task to restore quarantined items.
- `createRestoreQuarantineExchangeItemTask` : creates a task to restore exchange quarantined items.

API url: CONTROL_CENTER_APIs_ACCESS_URL/v1.0/jsonrpc/quarantine

2.11.1. getQuarantineItemsList

This method retrieves the list of quarantined items available for a company. An item can be a file or an Microsoft Exchange object.

Services

This method requires you to place the `{service}` name in the API URL. The allowed services are:

- `computers`, for "Computers and Virtual Machines"
- `exchange`, for "Security for Exchange"

For example, the request URL for the `exchange` service is:

`https://YOUR-HOSTNAME/api/v1.0/jsonrpc/quarantine/exchange`

Parameters

Parameter	Type	Optional	Description
<code>endpointId</code>	String	Yes	The ID of the computer for which you want to retrieve the quarantined items. If not passed, the method returns the items quarantined in the entire network.
<code>page</code>	Number	Yes	The results page. The default value is 1.

Parameter	Type	Optional	Description
perPage	Number	Yes	The number of items displayed in a page. The upper limit is 100 items per page. Default value is 30 items per page.

Return value

This method returns an Array containing objects with the quarantined items. Each entry in the array has the following structure:

- `page` - the current displayed page
- `pagesCount` - the total number of available pages
- `perPage` - the total number of returned items per page
- `total` - the total number of items
- `items` - the list of quarantined items. Each entry in the list has the following fields:
 - `id`, the ID of the quarantined item,
 - `quarantinedOn`, the date and time when the object was quarantined,
 - `actionStatus`, the status of the action taken on the quarantined file: (0 - None; 1 - Pending remove; 2 - Pending restore; 3 - Remove failed; 4 - Restore failed; 16 - Pending save; 17 - Failed save) ,
 - `endpointId`, the ID of the endpoint on which the threat was detected,
 - `endpointName`, the name of endpoint on which the threat was detected,
 - `endpointIP`, the IP of endpoint on which the threat was detected,
 - `canBeRestored`, has the value `True` if the restore operation is allowed, `False` otherwise,
 - `companyId`, the company ID,
 - `details`, more information related to the quarantined item. For information regarding the content of the `details` member, refer to “[Contents of details](#)” ([p. 150](#)).

Contents of details

For the Computers and Virtual Machines service, the `details` field has this structure:

Field name	Data type	Description
filePath	String	Path to the infected or suspicious file on the endpoint it wasdetected on

For Security for Exchange service, the details field has this structure:

Field name	Data type	Description
detectionPoint	Integer	The level where the detection took place. Possible values: <ul style="list-style-type: none">● 0 - transport● 1 - mailbox● 2 - folder● 3 - on demand
itemType	Integer	The quarantined object type. Possible values: <ul style="list-style-type: none">● 0 - attachement● 1 - email
threatStatus	String	The status of the object when scan is complete. The status shows if an email is spam or contains unwanted content, or if an attachment is malware infected, suspect of being infected, unwanted or unscannable. Possible values are: <ul style="list-style-type: none">● 0 - spam● 1 - suspected● 2 - infected● 3 - attachement detection● 4 - content detection● 5 - unscannable
email	Object	<ul style="list-style-type: none">● senderIP, a String containing the sender's IP address

Field name	Data type	Description
		<ul style="list-style-type: none">• senderEmail, a String consisting in the sender's email address, as it appears in the email header fieldFrom• subject, a String with the subject of the quarantined email• recipients, an Array with the recipients, as they appear in the email header fields To and Cc• realRecipients, an Array containing the email addresses of the intended recipients

Example

Request :

```
{  
    "params": {  
        "endpointId": "55896b87b7894d0f367b23c5",  
        "page": 1,  
        "perPage": 2  
    },  
    "jsonrpc": "2.0",  
    "method": "getQuarantineItemsList",  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86"  
}
```

Response :

```
This response example is for computers service:  
{  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86",  
    "jsonrpc": "2.0",  
    "result": {  
        "page": 1,  
        "pagesCount": 2,  
        "perPage": 2,  
        "items": [  
            {"id": "5399c9b5-0b46-45e4-81aa-889952433d86",  
                "subject": "Test Email from GravityZone",  
                "from": "test@example.com",  
                "to": "user@example.com",  
                "cc": null,  
                "bcc": null,  
                "date": "2023-01-12T10:00:00Z",  
                "status": "quarantine",  
                "size": 1000000,  
                "type": "text/html",  
                "content": "

This is a test email sent from GravityZone.

",  
                "attachments": [{"id": "5399c9b5-0b46-45e4-81aa-889952433d86",  
                    "name": "testfile.pdf",  
                    "type": "application/pdf",  
                    "size": 1000000}, {"id": "5399c9b5-0b46-45e4-81aa-889952433d86",  
                    "name": "testfile.jpg",  
                    "type": "image/jpeg",  
                    "size": 1000000}],  
                "spamScore": 0.85, "spamLabel": "Highly Suspect"},  
            {"id": "5399c9b5-0b46-45e4-81aa-889952433d87",  
                "subject": "Another Test Email",  
                "from": "anotheruser@example.com",  
                "to": "user@example.com",  
                "cc": null,  
                "bcc": null,  
                "date": "2023-01-12T10:15:00Z",  
                "status": "quarantine",  
                "size": 1000000,  
                "type": "text/plain",  
                "content": "This is another test email.",  
                "attachments": [{"id": "5399c9b5-0b46-45e4-81aa-889952433d87",  
                    "name": "anotherfile.pdf",  
                    "type": "application/pdf",  
                    "size": 1000000}, {"id": "5399c9b5-0b46-45e4-81aa-889952433d87",  
                    "name": "anotherfile.jpg",  
                    "type": "image/jpeg",  
                    "size": 1000000}],  
                "spamScore": 0.75, "spamLabel": "Suspicious"}]}  
}
```

```
total: 4
items[{
    "id": "5b7d219ab1a43d170b7b23c6",
    "quarantinedOn": "2018-09-08T11:40:58",
    "actionStatus": 2,
    "companyId": "55896b87b7894d0f367b23c6",
    "endpointId": "55896b87b7894d0f367b23c5",
    "endpointName": "Computer 1",
    "endpointIP": "248.49.248.122",
    "canBeRestored": false,
    "canBeRemoved": true,
    "threatName": "Virus 0",
    "companyId": "55896b87b7894d0f367b23c6",
    "details": {
        "filePath": "c:\\Virus0\\virus0.exe",
    }
}]
}
}
This response example is for exchange service:
```

```
{
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86",
    "jsonrpc": "2.0",
    "result": {
        page: 1,
        pageCount: 2,
        perPage: 2,
        total: 4
        items[{
            "id": "5b7d219bb1a43d170b7b23ee",
            "quarantinedOn": "2018-09-13T11:40:59",
            "actionStatus": 0,
            "endpointId": "55896b87b7894d0f367b23c5",
            "endpointName": "Computer 1",
            "endpointIP": "57.238.160.118",
            "canBeRestored": false,
            "canBeRemoved": true,
            "threatName": "Threat1",
            "companyId": "55896b87b7894d0f367b23c6",
            "details": {
                "threatStatus": 4,
                "itemType": 0,
            }
        }]
    }
}
```

```
"detectionPoint": 1,  
"email": {  
    "senderIP": "185.36.136.238",  
    "senderEmail": "test@test.com",  
    "subject":  
        "Test subject_5b7d2128b1a43da20c7b23c6",  
    "recipients": [  
        "receiver1@test.com",  
        "receiver2@test.com",  
    ]  
    "realRecipients": [  
        "receiver1@test.com",  
        "receiver2@test.com"  
    ]  
}  
}  
}]  
}
```

2.11.2. createRemoveQuarantineItemTask

This method creates a new task to remove items from quarantine.

Services

This method requires you to place the `{service}` name in the API URL. The allowed services are:

- `exchange`, for "Security for Exchange"
- `computers`, for "Computers and Virtual Machines"

For example, the request URL for the `computers` service is:

`https://YOUR-HOSTNAME/api/v1.0/jsonrpc/quarantine/computers`

Parameters

Parameter	Type	Optional	Description
quarantineItemsIds	Array	No	The list of quarantine items IDs. The maximum number of items that can be removed once is 100.

Return value

This method returns a Boolean: True when the task was successfully created.

Example

Request :

```
{  
    "params": {  
        "quarantineItemsIds": [  
            "63896b87b7894d0f367b23c6",  
            "65896b87b7894d0f367b23c6"  
        ]  
    },  
    "jsonrpc": "2.0",  
    "method": "createRemoveQuarantineItemTask",  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86"  
}
```

Response :

```
{  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86",  
    "jsonrpc": "2.0",  
    "result": True  
}
```

2.11.3. createEmptyQuarantineTask

This method creates a new task to empty the quarantine.

Services

This method requires you to place the `{service}` name in the API URL. The allowed services are:

- `exchange`, for "Security for Exchange"
- `computers`, for "Computers and Virtual Machines"

For example, the request URL for the `computers` service is:

`https://YOUR-HOSTNAME/api/v1.0/jsonrpc/quarantine/computers`

Parameters

No input parameters are required.

Return value

This method returns a Boolean: True when the task was successfully created.

Example

Request :

```
{  
    "params": {  
    },  
    "jsonrpc": "2.0",  
    "method": "createEmptyQuarantineTask",  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86"  
}
```

Response :

```
{  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86",  
    "jsonrpc": "2.0",  
    "result": true  
}
```

2.11.4. createRestoreQuarantineItemTask

This method creates a new task to restore items from the quarantine.

Services

This method requires you to place the `{service}` name in the API URL. The allowed services are:

- `computers`, for "Computers and Virtual Machines"

For example, the request URL for the `computers` service is:

`https://YOUR-HOSTNAME/api/v1.0/jsonrpc/quarantine/computers`

Parameters

Parameter	Type	Optional	Description
<code>quarantineItemsIds</code>	Array	No	The list of IDs for the quarantined items. You can restore maximum 100 items once.
<code>locationToRestore</code>	String	Yes	The absolute path to the folder where the items will be restored. If the parameter is not set, the original location will be used.
<code>addExclusionInPolicy</code>	Boolean	Yes	Exclude the files to be restored from future scans. Exclusions do not apply to items with the Default Policy assigned. The default value for this parameter is <code>False</code> .

Return value

This method returns a Boolean: True when the task was successfully created.

Example

Request :

```
{  
    "params": {  
        "quarantineItemsIds": [  
            "63896b87b7894d0f367b23c6",  
            "65896b87b7894d0f367b23c6"  
        ],  
        "locationToRestore": "C:\RestoreDirectory"  
        "addExclusionInPolicy": true  
    },  
    "jsonrpc": "2.0",  
    "method": "createRestoreQuarantineItemTask",  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86"  
}
```

Response :

```
{  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86",  
    "jsonrpc": "2.0",  
    "result": True  
}
```

2.11.5. createRestoreQuarantineExchangeItemTask

This method creates a new task to restore items from the quarantine for Exchange Servers.

Services

This method requires you to place the `{service}` name in the API URL. The allowed services are:

- `exchange`, for "Security for Exchange"

For example, the request URL for the `exchange` service is:

`https://YOUR-HOSTNAME/api/v1.0/jsonrpc/quarantine/exchange`

Parameters

Parameter	Type	Optional	Description
quarantineItemsIds	Array	No	The list of IDs for the quarantined items. You can restore maximum 100 items once.
username	String	No	The username of an Microsoft Exchange user. The username must include the domain name.
password	String	No	The password of an Exchange user
email	String	Yes	The email address of the Exchange user. This parameter is necessary when the email address is different from the username.
ewsUrl	String	Yes	The Exchange Web Services URL .The EWS URL is necessary when the Exchange Autodiscovery does not work.

Return value

This method returns a Boolean: True when the task was successfully created

Example

Request :

```
{  
    "params": {  
        "quarantineItemsIds": [  
            "63896b87b7894d0f367b23c6",  
            "65896b87b7894d0f367b23c6"  
        ],  
        "username": "user@domain",  
        "password": "userPassword"  
    },  
    "jsonrpc": "2.0",  
    "method": "createRestoreQuarantineExchangeItemTask",  
    "id": "5399c9b5-0b46-45e4-81aa-889952433d86"
```

```
}
```

Response :

```
{
  "id": "5399c9b5-0b46-45e4-81aa-889952433d86",
  "jsonrpc": "2.0",
  "result": True
}
```

3. API USAGE EXAMPLES

The following API usage examples make use of the following generated API key: "Uj1MS+0m1l9IUZjpjWyJG8gbnv2Mta4T".

3.1. C# Example

In the following example, we the list of endpoints from a specified container using C#.

```
/** This example makes use of the json-rpc-csharp project:  
 * https://github.com/adamashton/json-rpc-csharp  
 */  
  
String apiURL =  
    "https://{{domain}}/api/v1.0/jsonrpc/";  
  
// Make a request on the companies API.  
Client rpcClient = new Client(apiURL + "network");  
  
String apiKey = "Uj1MS+0m1l9IUZjpjWyJG8gbnv2Mta4T";  
String userPassString = apiKey + ":";  
String authorizationHeader = System.Convert.ToBase64String(  
    System.Text.Encoding.UTF8.GetBytes(userPassString));  
  
rpcClient.Headers.Add("Authorization",  
    "Basic " + authorizationHeader);  
  
JToken parameters = new JObject();  
parameters["parentId"] = "55d43258b1a43ddf107baad4";  
parameters["isManaged"] = True;  
parameters["page"] = 1;  
parameters["perPage"] = 2;  
  
Request request = rpcClient.NewRequest(  
    "getEndpointsList", parameters);  
  
Response response = rpcClient.Rpc(request);
```

```
if (response.Result != null) {  
    JToken result = response.Result;  
    Console.WriteLine(response.ToString());  
}
```

3.2. curl Example

In the following example, we get the list of custom groups using the Network API.

```
curl -i \  
-H "Authorization: \  
Basic VWpsTVMrMG0xbD1JVVpqcGpXeUpHOGdibnYyTXRhNFQ6" \  
-H "Content-Type: application/json" \  
-d '{"id": "123456789", "jsonrpc": "2.0",  
"method": "getCustomGroupsList", "params": \  
{"parentId" : '5582c0acb1a43d9f7f7b23c6'}}' \  
-X POST \  
https://{{domain}}/api/v1.0/jsonrpc/network  
  
HTTP/1.1 200 OK  
Date: Wed, 10 Jan 2015 13:25:30 GMT  
Content-Length: 103  
Content-Type: application/json; charset=utf-8  
  
{"id":"123456789","jsonrpc":"2.0","result":  
 [{"id': '5582c385b1a43deb7f7b23c6', 'name': 'my group 1'},  
 {"id': '5582d3b3b1a43d897f7b23c8', 'name': 'my group 2'}]}
```

3.3. Python Example

Now, we will query the list of available packages.

```
import base64
import pyjsonrpc
import requests
import simplejson

# Generate Authorization header from API key
apiKey = "Uj1MS+0m1l9IUZjpjWyJG8gbnv2Mta4T"
encodedUserPassSequence = base64.b64encode(apiKey + ":")
authorizationHeader = "Basic " + encodedUserPassSequence

json = pyjsonrpc.create_request_json("getPackagesList")
result = requests.post(
    "https://{}{}/api/v1.0/jsonrpc/packages",
    json,
    verify=False,
    headers = {
        "Content-Type": "application/json",
        "Authorization": authorizationHeader
    })
jsonResult = simplejson.loads(result.content)

print jsonResult

Output:

{'jsonrpc': '2.0',
'id': '61f4dadcd-bd10-448d-af35-16d45a188d9e',
'result': {
'items': [
{'type': 3, 'id': '55d4325cb1a43ddf107b241b',
'name': 'Default Security Server Package'},
{'type': 4, 'id': '55d43e34b1a43db5187b23c6',
'name': 'My package'}]
, 'total': 2,
'page': 1,
'perPage': 30,
```

```
'pagesCount': 0  
}
```

3.4. Node.js example

In this example, we will make the exact previous call, only this time we will use Node.js

```
// Using the request module:  
// npm install request  
var request = require('request');  
  
request({  
    uri: "https://domain/ \n      api/v1.0/jsonrpc/packages",  
    method: "POST",  
    headers: {  
        'Authorization':  
            "Basic VWpsTVMrMG0xbDlJVVpqcGpXeUpHOGdibnYyTXRhNFQ6"  
    },  
    json: {  
        "id": "123456789",  
        "jsonrpc": "2.0",  
        "method": "getPackagesList",  
        "params": []  
    }  
, function(response, body) {  
    console.log(body);  
});  
  
// Output:  
  
// {'jsonrpc': '2.0',  
//  'id': '61f4dadcd-bd10-448d-af35-16d45a188d9e',  
//  'result': {  
//    'items': [  
//      {'type': 3, 'id': '55d4325cb1a43ddf107b241b',  
//       'name': 'Default Security Server Package'},{  
//     ]  
//   }  
// }
```

```
//  {'type': 4, 'id': '55d43e34b1a43db5187b23c6',
//  'name': 'My package'}]
// , 'total': 2,
// 'page': 1,
// 'perPage': 30,
// 'pagesCount': 0}
// }
```