



# Qualys VMDR OT v1.0.3

## API Release Notes

Version 1.0.3.0

November 15, 2023

Qualys VMDR OT API gives you many ways to integrate your programs and API calls with Qualys capabilities.

### What's New

[New API: List Project Files](#)

[New addOns Parameter in Response to List OT Host Assets](#)

The Qualys API URL you should use for API requests depends on the Qualys platform where your account is located.

[Click here to identify your Qualys Platform and get the API URL](#)

For VMDR OT use API Gateway URL.

This documentation uses the API Gateway URL for Qualys Platform ([<qualys\\_base\\_url>](#)) in sample API requests. Replace this URL with the appropriate gateway URL for your account as per the platform.

## New API: List Project Files

|                     |                         |
|---------------------|-------------------------|
| APIs affected       | /ot/v1/projectfile/list |
| Method              | Get                     |
| New or Updated APIs | New                     |

Assets can be imported using the project files. The project files are collected from programming and maintenance software. Now, with this new API, you can retrieve list of project files based on the given search and sort criteria. You can narrow down the search results using the filters and parameters. You can use the input parameters mentioned in the following table to form search queries.

### Input Parameters

Use the following input parameters to retrieves project files.

| Parameter  | Mandatory /Optional | Data Type | Description                                                                                                                                                                                                                                                     |
|------------|---------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| filter     | Optional            | String    | Filter the events list by providing a query using Qualys syntax. Refer to the <a href="#">Tokens Supported for List Project Files</a> for assistance with creating your query.                                                                                  |
| pageNumber | Optional            | Integer   | The page to be returned. Starts from zero.                                                                                                                                                                                                                      |
| pageSize   | Optional            | Integer   | Provide the number of records to be included per page in the response.<br>Default: 0<br>Maximum: 100<br>For example, the total result set is 50 files. If the page size is specified as 10, then the result is divided into 5 pages with 10 files on each page. |

| Parameter     | Mandatory /Optional | Data Type | Description                                                                                                                                                                                                                  |
|---------------|---------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sort          | Optional            | String    | Sort the results using a Qualys search token.<br>To know more search tokens for sorting, refer to the <a href="#">Tokens Supported for List Project Files</a><br>By default, the result is sorted by [{"lastUpdated":"dec"}] |
| Authorization | Mandatory           | String    | Authorization token to authenticate to the Qualys Cloud Platform.<br>Prepend token with "Bearer" and one space.<br>For example - Bearer <authToken>                                                                          |

### Sample with a Filter

The following sample request specifies page size as 10. The request fetches all project files related to vendor Siemens. The response has project files details and related assets, status, extension of the file, and so on.

#### API Request:

```
curl -X 'GET' \
'https://<qualys_base_url>/ot/v1/projectfile/list?filter=vendor%20%3A%20%22Siemens%22&pageNumber=0&pageSize=10' \
-H 'accept: application/json' \
-H 'Authorization: Bearer <jwt token>' \
```

#### Response:

```
[
  {
    "name": "Devices_Profinet_Mod",
    "extension": ".dz5",
    "status": "Imported",
    "plantLocation": "1",
    "vendor": "Siemens",
    "assetCount": 9,
    "engineeringToolName": "DIGSI 5",
    "engineeringToolVersion": "08.804",
    "fileHash": "54ac68844e620996295604b3aab61cc0",
    "uploadedBy": "User John",
    "lastUpdated": "2023-03-09T11:06:15.351Z"
  },
]
```

```
{
  "name": "Protection_Relay",
  "extension": ".dz5",
  "status": "Deleted",
  "plantLocation": "1",
  "vendor": "Siemens",
  "assetCount": 0,
  "engineeringToolName": "DIGSI 5",
  "engineeringToolVersion": "08.804",
  "fileHash": "98adf9cc489967cb5d5151f472cb7518",
  "uploadedBy": "User John",
  "lastUpdated": "2023-03-09T11:05:07.800Z"
},
{
  "name": "s7_400_pc",
  "extension": ".cfg",
  "status": "Imported",
  "plantLocation": "2",
  "vendor": "Siemens",
  "assetCount": 2,
  "engineeringToolName": "STEP7",
  "engineeringToolVersion": "V5.6 + HF1",
  "fileHash": "3af85c535ea32f98e288b4a871aa5b80",
  "uploadedBy": "User John",
  "lastUpdated": "2023-03-09T10:59:34.578Z"
},
{
  "name": "Standalone_Device",
  "extension": ".dz5",
  "status": "Importing",
  "plantLocation": "test",
  "vendor": "Siemens",
  "assetCount": 0,
  "engineeringToolName": "DIGSI 5",
  "engineeringToolVersion": "08.804",
  "fileHash": "f4498d9c23fd1d2038e68d6f0e77ab8e",
  "uploadedBy": "User John",
  "lastUpdated": "2023-03-09T10:26:24.959Z"
},
{
  "name": "s7_400_pc",
  "extension": ".cfg",
  "status": "Deleted",
  "plantLocation": "1",
  "vendor": "Siemens",
  "assetCount": 0,
  "engineeringToolName": "STEP7",
  "engineeringToolVersion": "V5.6 + HF1",
  "fileHash": "3af85c535ea32f98e288b4a871aa5b80",
```

```
"uploadedBy": "User John",
"lastUpdated": "2023-02-01T06:12:42.430Z"
},
{
  "name": "s7_400_pc",
  "extension": ".cfg",
  "status": "Deleted",
  "plantLocation": "2",
  "vendor": "Siemens",
  "assetCount": 2,
  "engineeringToolName": "STEP7",
  "engineeringToolVersion": "V5.6 + HF1",
  "fileHash": "3af85c535ea32f98e288b4a871aa5b80",
  "uploadedBy": "User John",
  "lastUpdated": "2023-02-01T06:00:24.887Z"
},
{
  "name": "s7_400_pc",
  "extension": ".cfg",
  "status": "Deleted",
  "plantLocation": "2",
  "vendor": "Siemens",
  "assetCount": 0,
  "engineeringToolName": "STEP7",
  "engineeringToolVersion": "V5.6 + HF1",
  "fileHash": "3af85c535ea32f98e288b4a871aa5b80",
  "uploadedBy": "User John",
  "lastUpdated": "2023-02-01T06:00:24.887Z"
},
]
```

## Tokens Supported for List Project Files

You can use the following tokens in filter and sort to form search queries.

| Token                  | Description                                                                | Example                                           |
|------------------------|----------------------------------------------------------------------------|---------------------------------------------------|
| assetCount             | To retrieve list of project files based on their count.                    | assetCount: 1000                                  |
| name                   | To retrieve list of project files based on their name.                     | name: Relay                                       |
| engineeringToolName    | To retrieve list of project files based on their engineering tool name.    | engineeringToolName : TwinCAT                     |
| plantLocation          | To retrieve list of project files based on their plant location.           | plantLocation: Production floor                   |
| engineeringToolVersion | To retrieve list of project files based on their engineering tool version. | engineeringToolVersion: 08.804                    |
| status                 | To retrieve list of project files based on their status.                   | status: Deleted                                   |
| fileHash               | To retrieve list of project files based on hash of the file.               | fileHash:<br>54ac68844e6209962<br>95604b3aab61cc0 |
| uploadedBy             | To retrieve list of project files by uploaded on user's name.              | uploadedBy: User John                             |
| lastUpdated            | To retrieve list of project files based on their last updated.             | lastUpdated: 2023-03-09T11:06:15.351Z             |
| vendor                 | To retrieve list of project files based on their vendors.                  | vendor: Siemens                                   |

## New addOns Parameter in Response to List OT Host Assets

|                     |                  |
|---------------------|------------------|
| APIs affected       | /ot/v1/host/list |
| Method              | Get              |
| New or Updated APIs | Updated          |

We have now introduced a new parameter `addOns` in the API response which includes the details of add on components associated with the assets.

You can use this API to retrieve a list of the OT assets in your network. Using the existing filters and parameters, you can narrow down the search results.

For details of tokens related to `addOns` parameter, refer to [Tokens Supported for addOns Parameter in List OT Host Assets API](#).

## Sample with a Single Exclude Filter

The following sample request specifies filter as `addOn.unitAddress` in the request. The request fetches all the details of the asset related to this query. The response has asset details like name, hardware version, category, vendor name, asset Id, asset module, IP address.

### API Request:

```
curl -X GET
"<qualys_base_url>/ot/v1/host/list?pageNumber=0&filter=addOn.unitAddress%
3A%20%2218%22"
--header "Accept: application/json"
-H "Authorization: Bearer <JWT Token>"
```

### Response:

```
{
  "assets": [
    {
      "address": "10.113.xx.xx",
      "macAddress": "00:00:0a:c5:5b:1c",
      "hardware": {
        "category2": "Programmable Logic Controller (PLC)",
        "category1": "Industrial Control System (ICS)",
        "vendor": "Omron",
        "model": "CJ2M-CPU33",
        "productName": "CJ2M CPU Unit",
        "class": "OT"
      },
      "interfaces": [
        {
          "address": "10.113.xx.xx",
          "macAddress": "00:00:0a:c5:5b:1c",
          "protocols": [
            "fins",
            "enip"
          ],
          "firstSeen": "2023-03-13T05:32:56.899Z",
          "lastSeen": "2023-03-27T15:38:52.449Z"
        }
      ],
      "assetId": 3020682,
      "vulnerabilityCount": 3,
      "assetModules": [
        {
          "assetModuleId": 254566,
          "moduleUuid": "47ba521e-32e5-47d8-adbd-e7e4578d4b2b",
          "vulnerabilityCount": 3,
          "risk": 9,
          "firmwareVersion": "2.01",

```



```
        "hardware": {
          "category2": "Programmable Logic Controller (PLC)",
          "vendor": "Omron",
          "model": "CJ2M-CPU33",
          "productName": "CJ2M CPU Unit"
        },
        "lastScanned": "2023-04-12T07:29:32.282Z"
      }
    ],
    "risk": 9,
    "lastUpdated": "2023-03-29T10:50:50.626Z",
    "created": "2023-01-18T07:01:22.700Z",
    "firmwareVersion": "2.01",
    "discoveryProtocols": [
      "fins"
    ],
    "purdueLevel": "Level 1",
    "assetUuid": "4da66005-911b-39b0-bb8d-193d3255af7e",
    "lastScanned": "2023-04-12T07:29:32.282Z",
    "inventory": {
      "sensorName": "Test_GH_SS",
      "source": "Passive Sensor",
      "sensorId":
"095885906826:1676961066:865851:701:1676961066:865851:701"
    },
    "operatingSystem": "Omron Firmware 2.01",
    "qAssetId": 19976038,
    "addOns": [
      {
        "unitAddress": "18",
        "hardware": {
          "category2": "Communication Module",
          "vendor": "Omron",
          "model": "CJ1W-ETN21",
          "productName": "CJ1 Series Ethernet Unit"
        },
        "firmwareVersion": "1.56",
        "addOnId": 11365
      },
      {
        "unitAddress": "35",
        "hardware": {
          "category2": "I/O Module",
          "vendor": "Omron",
          "model": "CJ1W-DA021",
          "productName": "CJ1 Series Analog I/O Unit"
        },
        "addOnId": 11364
      }
    ]
  },
```

```
{
  "unitAddress": "16",
  "hardware": {
    "category2": "Communication Module",
    "vendor": "Omron",
    "model": "CJ2M-EIP21",
    "productName": "EtherNet/IP Unit"
  },
  "firmwareVersion": "2.17",
  "addOnId": 11363
}
]
}
]
```

### Tokens Supported for addOns Parameter in List OT Host Assets API

You can use the following tokens in filter to form search queries.

| Token                    | Description                                                                       | Example                                        |
|--------------------------|-----------------------------------------------------------------------------------|------------------------------------------------|
| addOn.firmwareVersion    | To retrieve list of host assets based on firmware version of add-on component.    | addOn.firmwareVersion: `30.1`                  |
| addOn.hardware.vendor    | To retrieve list of host assets based on hardware vendor of add-on component.     | addOn.hardware.vendor: Siemens                 |
| addOn.slaveAddress       | To retrieve list of host assets based on slave address of add-on component.       | addOn.slaveAddress: 0x00000004                 |
| addOn.hardware.category2 | To retrieve list of host assets based on hardware category 2 of add-on component. | addOn.hardware.category2: Communication Module |
| addOn.orderId            | To retrieve list of host assets based on order ID of add-on component.            | addOn.orderId: '6ES7412-3HJ14-0AB0'            |
| addOn.unitAddress        | To retrieve list of host assets based on unit address of add-on component.        | addOn.unitAddress: 18                          |
| addOn.hardware.model     | To retrieve list of host assets based on hardware model of add-on component.      | addOn.hardware.model: SIMATIC S7-300           |
| addOn.serialNumber       | To retrieve list of assets based on serial number of add-on component.            | addOn.serialNumber: '0x00991222'               |