



Qualys API Release Notes

Version 8.11.2

Qualys 8.11 includes improvements to the Qualys API, giving you more ways to integrate your programs and API calls with Qualys Vulnerability Management (VM) and Qualys Policy Compliance (PC). Looking for our API user guides? Just log in to your Qualys account and go to Help > Resources.

What's New

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URL to the Qualys API Server

Qualys maintains multiple Qualys platforms. The Qualys API server URL that you should use for API requests depends on the platform where your account is located.

Account Location	API Server URL
Qualys US Platform 1	https://qualysapi.qualys.com
Qualys US Platform 2	https://qualysapi.qg2.apps.qualys.com
Qualys US Platform 3	https://qualysapi.qg3.apps.qualys.com
Qualys EU Platform 1	https://qualysapi.qualys.eu
Qualys EU Platform 2	https://qualysapi.qg2.apps.qualys.eu
Qualys India Platform 1	https://qualysapi.qg1.apps.qualys.in
Qualys Private Cloud Platform	<a href="https://qualysapi.<customer_base_url>">https://qualysapi.<customer_base_url>

The Qualys API documentation and sample code use the API server URL for the Qualys US Platform 1. If your account is located on another platform, please replace this URL with the appropriate server URL for your account.

Scheduled Scan API - New Parameters for Notification Settings

API affected	/api/2.0/fo/schedule/scan
New or Updated API	Updated
DTD or XSD changes	Yes

The Scan Schedule API v2 supports defining schedules for your vulnerability scans. We've expanded this API to include scheduled scan notification options. You can be notified days, hours or minutes before a scan starts. You can also be notified when the scan is finished and the results are ready to view. These settings are already available when defining schedules in the Qualys UI.

Create/Update Schedules

Use these new input parameters to define scheduled scan notification options.

Parameter	Description
before_notify={0 1}	(Optional) Specify before_notify=1 to send a notification before the scan starts. When not specified during a create request no notification is sent. When not specified during an update request we keep the previous setting.
before_notify_unit={value}	(Optional) Specify the time unit for when to send the before scan notification. Possible values are: days, hours, minutes. This parameter is required when before_notify=1. Not valid when before_notify=0.
before_notify_time={value}	(Optional) Indicates the number of days, hours or minutes before the scan starts the notification will be sent. For days, enter a value of 1-31. For hours, enter a value of 1-24. For minutes, enter a value of 5-120. This parameter is required when before_notify=1. Not valid when before_notify=0.
before_notify_message={value}	(Optional) Specify a custom message to add to the before scan notification. The notification will always include certain details like the scan title, owner, option profile and start time. Include up to 4000 characters, no HTML tags. For update requests: - When not specified we keep the previous setting. - Specify an empty string to delete the last saved message. This parameter is only valid when before_notify=1.

Parameter	Description
after_notify={0 1}	(Optional) Specify after_notify=1 to send a notification after the scan is finished. When not specified during a create request no notification is sent. When not specified during an update request we keep the previous setting.
after_notify_message={value}	(Optional) Specify a custom message to add to the after scan notification. When not specified during a create request, no notification message is saved. Include up to 4000 characters, no HTML tags. For update requests: - When not specified we keep the previous setting. - Specify an empty string to delete the last saved message. - If both notifications are disabled (before_notify=0 and after_notify=0) we will delete the after notify message. This parameter is only valid when after_notify=1.
recipient_group_ids={value}	(Optional) The notification recipients in the form of one or more valid distribution group IDs. When not specified during a create request, only the task owner will be notified. For update requests: - When not specified we keep the previous setting. - Specify an empty string to delete the list of IDs. - If both notifications are disabled (before_notify=0 and after_notify=0) we will delete the list of IDs. This parameter is only valid when before_notify=1 or after_notify=1 is specified in the same request.

API request: (before and after notifications enabled)

```
curl -u "USERNAME:PASSWORD" -H "X-Requested-With: Curl" -X "POST" -d
"action=create&scan_title=MyDailyScan&start_date=11/01/2017&occurrence=da
ily&active=1&frequency_days=1&time_zone_code=US-
CA&start_minute=0&start_hour=1&observe_dst=no&option_id=694636922&ip=10.1
0.10.113&target_from=assets&before_notify=1&before_notify_unit=minutes&be
fore_notify_time=10&before_notify_message=A Qualys scan is scheduled to
start soon&after_notify=1&after_notify_message=Qualys scan completed"
"https://qualysapi.qualys.com/api/2.0/fo/schedule/scan/"
```

XML output:

```
?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE SIMPLE_RETURN SYSTEM
"https://qualysapi.qualys.com/api/2.0/simple_return.dtd">
<SIMPLE_RETURN>
  <RESPONSE>
    <DATETIME>2015-01-20T21:32:40Z</DATETIME>
    <TEXT>New scan scheduled successfully</TEXT>
    <ITEM_LIST>
      <ITEM>
        <KEY>ID</KEY>
        <VALUE>136992</VALUE>
      </ITEM>
    </ITEM_LIST>
  </RESPONSE>
</SIMPLE_RETURN>
```

List Scan Schedules

Use this new input parameter to show notification settings in the XML output.

Parameter	Description
show_notifications={0 1}	(Optional) Specify show_notifications=1 to include the notification settings for each schedule in the XML output.

API request:

```
curl u "USERNAME:PASSWORD" -H "X-Requested-With: Curl"
"https://qualysapi.qualys.com/api/2.0/fo/schedule/scan/?action=list&id=85
331&show_notifications=1"
```

XML output:

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE SCHEDULE_SCAN_LIST_OUTPUT SYSTEM
"https://qualysapi.qualys.com/api/2.0/fo/schedule/scan/schedule_scan_list
_output.dtd">
```

```

<SCHEDULE_SCAN_LIST_OUTPUT>
  <REQUEST>
    <DATETIME>2017-10-13T08:33:04Z</DATETIME>
    <USER_LOGIN>acme_ac</USER_LOGIN>
    <RESOURCE>https://qualysapi.qualys.com/api/2.0/fo/schedule/scan/</RESOURCE>
  </REQUEST>
  <RESPONSE>
    <DATETIME>2017-10-13T08:33:04Z</DATETIME>
    <SCHEDULE_SCAN_LIST>
      <SCAN>
        <ID>1128216540</ID>
        <ACTIVE>1</ACTIVE>
        <TITLE><![CDATA[Schedule - (GMT -05:00) Brazil, Amazonas (far
west)]]></TITLE>
        <USER_LOGIN>acme_ac</USER_LOGIN>
        <TARGET><![CDATA[10.10.10.2-10.10.10.30]]></TARGET>
        <NETWORK_ID><![CDATA[0]]></NETWORK_ID>
        <ISCANNER_NAME><![CDATA[External Scanner]]></ISCANNER_NAME>
        <USER_ENTERED_IPS>
          <RANGE>
            <START>10.10.10.2</START>
            <END>10.10.10.30</END>
          </RANGE>
        </USER_ENTERED_IPS>
        <OPTION_PROFILE>
          <TITLE><![CDATA[Authenticated Scan v.1]]></TITLE>
          <DEFAULT_FLAG>0</DEFAULT_FLAG>
        </OPTION_PROFILE>
        <SCHEDULE>
          <MONTHLY frequency_months="1" day_of_month="12"></MONTHLY>
          <START_DATE_UTC>2017-10-12T18:10:00Z</START_DATE_UTC>
          <START_HOUR>13</START_HOUR>
          <START_MINUTE>10</START_MINUTE>
          <PAUSE_AFTER_HOURS></PAUSE_AFTER_HOURS>
          <RESUME_IN_DAYS></RESUME_IN_DAYS>
          <NEXTLAUNCH_UTC>2017-10-12T17:10:00</NEXTLAUNCH_UTC>
          <TIME_ZONE>
            <TIME_ZONE_CODE>BR-AM1</TIME_ZONE_CODE>
            <TIME_ZONE_DETAILS>(GMT-0500) Brazil:
America/Manaus</TIME_ZONE_DETAILS>
          </TIME_ZONE>
          <DST_SELECTED>0</DST_SELECTED>
          <MAX_OCCURRENCE>3</MAX_OCCURRENCE>
        </SCHEDULE>
        <NOTIFICATIONS>
          <BEFORE_LAUNCH>
            <TIME>33</TIME>
            <UNIT><![CDATA[ minutes ]]></UNIT>

```

```

        <MESSAGE><![CDATA[ A Qualys scan is scheduled to start
soon ]]></MESSAGE>
    </BEFORE_LAUNCH>
    <AFTER_COMPLETES>
        <MESSAGE><![CDATA[ Qualys scan completed ]]></MESSAGE>
    </AFTER_COMPLETES>
    <DISTRIBUTION_GROUPS>
        <DISTRIBUTION_GROUP>
            <ID>8767</ID>
            <TITLE><![CDATA[ MyEmailGroup ]]></TITLE>
        </DISTRIBUTION_GROUP>
    </DISTRIBUTION_GROUPS>
</NOTIFICATIONS>
</SCAN>
</SCHEDULE_SCAN_LIST>
</RESPONSE>
</SCHEDULE_SCAN_LIST_OUTPUT>

```

DTD update:

The Scheduled Scan List Output DTD (schedule_scan_list_output.dtd) was updated to include new elements (in bold).

```

<!-- QUALYS SCHEDULE_SCAN_LIST_OUTPUT DTD -->
...
<!ELEMENT SCHEDULE_SCAN_LIST (SCAN+)>
<!ELEMENT SCAN (ID, ACTIVE, TITLE?, USER_LOGIN, TARGET, NETWORK_ID?,
ISCANNER_NAME?, EC2_INSTANCE?, ASSET_GROUP_TITLE_LIST?, ASSET_TAGS?,
EXCLUDE_IP_PER_SCAN?, USER_ENTERED_IPS?, OPTION_PROFILE?,
PROCESSING_PRIORITY?, SCHEDULE, NOTIFICATIONS?)>
...
<!-- notifications -->
<!ELEMENT NOTIFICATIONS (BEFORE_LAUNCH?, AFTER_COMPLETES?,
DISTRIBUTION_GROUPS?)>
<!ELEMENT BEFORE_LAUNCH (TIME, UNIT, MESSAGE)>
<!ELEMENT TIME (#PCDATA)>
<!ELEMENT UNIT (#PCDATA)>
<!ELEMENT MESSAGE (#PCDATA)>

<!ELEMENT AFTER_COMPLETES (MESSAGE)>
<!ELEMENT DISTRIBUTION_GROUPS (DISTRIBUTION_GROUP+)>
<!ELEMENT DISTRIBUTION_GROUP (ID, TITLE)>

<!-- EOF -->

```

New Scanner Role Permission to Add Assets

API affected	/api/2.0/fo/asset/ip
New or Updated API	Neither (permission change only)
DTD or XSD changes	No

Your subscription may now be configured to allow users with a Scanner user role to be granted the “Add assets” permission. When granted, this allows the user to add new IP addresses to the subscription from the UI and API.

Good to Know

- The Scanner user must be granted the “Add assets” permission to add new IPs. To add IPs to VM the user must also have the “Manage VM module” permission. To add IPs to PC the user must have “Manage PC module” and to add to SCA the user must have “Manage SCA module”.
- The Scanner user must add the new IPs to an asset group assigned to them. In the API, the user does this by specifying the asset group name (using the ag_title parameter). If the Scanner is in a business unit the new IPs are available in the business unit. The new IPs are also available to Managers for inclusion in other business units and asset groups.
- The number of new IPs the user can add depends on the number of IPs purchased for the subscription and the new IP limit set for their business unit, if applicable.

How to grant a user extended permissions

The “Add assets” permission may be granted on a per user basis by a Manager or Unit Manager (with the same permission). Simply edit the user’s account from the Qualys UI by going to the Users list and choosing Edit from the Quick Actions menu. The “Add assets” permission may already be granted to Unit Managers.

Not seeing this permission for Scanner users?

Your subscription must be configured to allow Scanner users to be granted the “Add assets” permission. Please contact your Technical Account Manager or Support to have this enabled for you. Once enabled, you’ll be able to grant this permission to any Scanner user in your subscription.

Compliance Policy API - Change to Policy Evaluation

API affected	/api/2.0/fo/compliance/policy/
New or Updated API	Updated
DTD or XSD changes	No

Now we will only start policy evaluation when you make changes to a policy using the API when 1) the Evaluate Now check box is selected for the policy in the UI Policy Editor, or 2) you specify evaluate_now=1 in the API request. When evaluate_now=1 is specified we will start policy evaluation and we'll select the Evaluate Now check box for the policy in the UI.

New Input Parameter

Use this new input parameter to evaluate the policy with policy changes.

Parameter	Description
evaluate_now={0 1}	(Optional) Specify evaluate_now=1 to start policy evaluation with these actions: set_asset_group_ids, add_asset_group_ids, remove_asset_group_ids.

API request:

```
curl -H "X-Requested-With: curl" -u "USERNAME:PASSWORD" -X POST -d
"id=43400&asset_group_ids=649737,649736&evaluate_now=1"
"https://qualysapi.qualys.com/api/2.0/fo/compliance/policy/?action=add_a
sset_group_ids"
```

XML output:

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE SIMPLE_RETURN SYSTEM
"https://qualysapi.qualys.com/api/2.0/simple_return.dtd">
<SIMPLE_RETURN>
  <RESPONSE>
    <DATETIME>2014-09-11T09:06:17Z</DATETIME>
    <TEXT>Compliance Policy successfully modified.</TEXT>
    <ITEM_LIST>
      <ITEM>
        <KEY>ID</KEY>
        <VALUE>43400</VALUE>
      </ITEM>
    </ITEM_LIST>
  </RESPONSE>
</SIMPLE_RETURN>
```

Option Profile API - DTD Change

API affected	/api/2.0/fo/subscription/option_profile/
New or Updated API	Neither (DTD change only)
DTD or XSD changes	Yes

We added a new element QRDI_CHECKS to the Option Profile Info DTD (option_profile_info.dtd). This flag is for Qualys Internal Use Only.

DTD update:

```
...
<!ELEMENT DETECTION_INCLUDE (BASIC_HOST_INFO_CHECKS, OVAL_CHECKS,
                             QRDI_CHECKS?)>
<!ELEMENT BASIC_HOST_INFO_CHECKS (#PCDATA)>
<!ELEMENT OVAL_CHECKS (#PCDATA)>
<!ELEMENT QRDI_CHECKS (#PCDATA)>
<!ELEMENT DETECTION_EXCLUDE (CUSTOM_LIST+)>
...
```