



# Qualys Cloud Platform (VM, PC) v10.x

## API Release Notes

Version 10.1

April 16, 2020

This new version of the Qualys Cloud Platform (VM, PC) includes improvements to the Qualys API. You'll find all the details in our user guides, available at the time of release. Just log in to your Qualys account and go to Help > Resources.

### **What's New**

[New Database UDCs for Sybase](#)

## Qualys API Server URL

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](#)

This documentation uses the API server URL for Qualys US Platform 1 (<https://qualysapi.qualys.com>) in sample API requests. If you're on another platform, please replace this URL with the appropriate server URL for your account.

## New Database UDCs for Sybase

APIs affected	<code>/api/2.0/fo/compliance/posture/info/?action=list</code> <code>/api/2.0/fo/compliance/control/?action=list</code> <code>/api/2.0/fo/compliance/policy/?action=export</code> <code>/api/2.0/fo/subscription/option_profile/pc/</code>
New or Updated API	Updated
DTD or XSD changes	Yes

With this release you can create, update, list and export Option Profiles for Sybase Database UDCs. We've added new elements to the XML output and DTDs for Control List Output, Policy Export Output, Posture Info List Output, Option Profiles, and the ImportableControl.xsd schema.

You'll see these changes:

- We have added new CHECK\_TYPE element to the XML output for Control List API: Sybase Database Check.
- We've added support for Sybase technologies (Sybase ASE 15 and SAP ASE 16) Database UDC for Posture API and Policy Export API.
- We updated the ImportableControl.xsd schema to include new enumeration values for the CHECK\_TYPE element: Sybase Database Check.

### New Input Parameters for Options Profile: Create/Update

We have added parameters `sybase_db_udc_restriction` and `sybase_db_udc_limit` to the Options Profile API to help you set limit on number of rows returned per scan for the Sybase UDC.

Parameter	Description
<code>sybase_db_udc_restriction={0 1}</code>	(Optional) Set value to 1 if you want to specify a limit on the number of rows to be returned per scan for custom Sybase Database checks.
<code>sybase_db_udc_limit={value}</code>	(Optional) Provide a value to define the number of rows to be returned per scan (default is 256) and maximum allowed limit for Sybase is 2500 rows.

## Sample - Options Profile API: Create

### API request:

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"  
-d "action=create&title=API-PC-OP-  
Sybase&scan_ports=targeted&sybase_db_udc_restriction=1&sybase_db_udc_limi  
t=50"  
"https://qualysapi.qualys.com/api/2.0/fo/subscription/option_profile/pc/"
```

### 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>2019-05-20T19:16:41Z</DATETIME>  
    <TEXT>Compliance Option profile successfully added.</TEXT>  
    <ITEM_LIST>  
      <ITEM>  
        <KEY>ID</KEY>  
        <VALUE>1710286</VALUE>  
      </ITEM>  
    </ITEM_LIST>  
  </RESPONSE>  
</SIMPLE_RETURN>
```

## Sample - Options Profile API: Update

You'll update an option profile using new parameters for Sybase:  
sybase\_db\_udc\_restriction and sybase\_db\_udc\_limit

### API request:

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"  
-d "action=update&id=1709710&title=API-PC-OP-Sybase-custom-  
limit&scan_ports=targeted&sybase_db_udc_restriction=1&sybase_db_udc_limit  
=50"  
"https://qualysapi.qualys.com/api/2.0/fo/subscription/option_profile/pc/"
```

### 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>2019-05-20T06:45:00Z</DATETIME>
```

```
<TEXT>Compliance Option profile successfully updated.</TEXT>
<ITEM_LIST>
  <ITEM>
    <KEY>ID</KEY>
    <VALUE>1709710</VALUE>
  </ITEM>
</ITEM_LIST>
</RESPONSE>
</SIMPLE_RETURN>
```

## Sample - Options Profile API: List

You'll list the option profiles for Sybase with database preference keys and their corresponding values.

### API request:

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X -d
"action=list&id=1710150"
"https://qualysapi.qualys.com/api/2.0/fo/subscription/option_profile/pc/"
```

### XML output:

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE OPTION_PROFILES SYSTEM
"https://qualysapi.qualys.com/api/2.0/fo/subscription/option_profile/opti
on_profile_info.dtd">
<OPTION_PROFILES>
  <OPTION_PROFILE>
    <BASIC_INFO>
      <ID>1710150</ID>
      ...
      </SCAN_BY_POLICY>
    </SCAN_RESTRICTION>
    ...
    <SYBASE>
      <DB_UDC_RESTRICTION>1</DB_UDC_RESTRICTION>
      <DB_UDC_LIMIT>60</DB_UDC_LIMIT>
    </SYBASE>
    </DATABASE_PREFERENCE_KEY>
    <FILE_INTEGRITY_MONITORING>
      <AUTO_UPDATE_EXPECTED_VALUE>0</AUTO_UPDATE_EXPECTED_VALUE>
    </FILE_INTEGRITY_MONITORING>
  </SCAN>
  ...
</ADDITIONAL>
</OPTION_PROFILE>
</OPTION_PROFILES>
```

## Sample - Options Profile API: Export

You'll export the Option Profile for Sybase with database preference keys and their corresponding values.

### API request:

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X -d  
"action=export&option_profile_id=1710150"  
"https://qualysapi.qualys.com/api/2.0/fo/subscription/option_profile/"
```

### XML output:

```
<?xml version="1.0" encoding="UTF-8" ?>  
<!DOCTYPE OPTION_PROFILES SYSTEM  
"https://qualysapi.qualys.com/api/2.0/fo/subscription/option_profile/opti  
on_profile_info.dtd">  
<OPTION_PROFILES>  
  <OPTION_PROFILE>  
    ...  
    <SYBASE>  
      <DB_UDC_RESTRICTION>1</DB_UDC_RESTRICTION>  
      <DB_UDC_LIMIT>60</DB_UDC_LIMIT>  
    </SYBASE>  
  </DATABASE_PREFERENCE_KEY>  
  <FILE_INTEGRITY_MONITORING>  
    <AUTO_UPDATE_EXPECTED_VALUE>0</AUTO_UPDATE_EXPECTED_VALUE>  
  </FILE_INTEGRITY_MONITORING>  
  ...  
</OPTION_PROFILES>
```

### DTD update:

option\_profile\_info.dtd DTD is updated to include Sybase in Database Preference Key and corresponding elements for Sybase.

DTD: <platform>/api/2.0/fo/subscription/option\_profile/option\_profile\_info.dtd

```
<!ELEMENT OPTION_PROFILES (OPTION_PROFILE)*>  
<!ELEMENT OPTION_PROFILE (BASIC_INFO, SCAN, MAP?, ADDITIONAL)>  
...  
<!ELEMENT SCAN (PORTS?, SCAN_DEAD_HOSTS?, CLOSE_VULNERABILITIES?,  
PURGE_OLD_HOST_OS_CHANGED?, PERFORMANCE?, LOAD_BALANCER_DETECTION?,  
PASSWORD_BRUTE_FORCING?, VULNERABILITY_DETECTION?, AUTHENTICATION?,  
  ADDL_CERT_DETECTION?, DISSOLVABLE_AGENT?, LITE_OS_SCAN?,  
ETHERNET_IP_PROBING?, CUSTOM_HTTP_HEADER?, HOST_ALIVE_TESTING?,  
SCAN_RESTRICTION?, DATABASE_PREFERENCE_KEY?, SYSTEM_AUTH_RECORD?,  
FILE_INTEGRITY_MONITORING?, CONTROL_TYPES?, DO_NOT_OVERWRITE_OS?,  
TEST_AUTHENTICATION?)>  
...
```

```
<!ELEMENT DATABASE_PREFERENCE_KEY (MSSQL?, ORACLE?, SYBASE?)>  
<!ELEMENT MSSQL (DB_UDC_RESTRICTION, DB_UDC_LIMIT)>  
<!ELEMENT ORACLE (DB_UDC_RESTRICTION, DB_UDC_LIMIT)>  
<!ELEMENT SYBASE (DB_UDC_RESTRICTION, DB_UDC_LIMIT)>  
<!ELEMENT DB_UDC_RESTRICTION (#PCDATA)>  
<!ELEMENT DB_UDC_LIMIT (#PCDATA)>  
...
```

### Schema update:

The option\_profiles.xsd schema is used to validate a proper format and required elements of the option profile XML file.

```
<?xml version="1.0" encoding="UTF-8"?>  
<xs:schema attributeFormDefault="unqualified"  
  elementFormDefault="qualified"  
  xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:element name="OPTION_PROFILES" type="OPTION_PROFILESType"/>  
  ...  
  <xs:complexType name="DATABASE_PREFERENCE_KEYType">  
    <xs:sequence>  
      <xs:element type="MSSQLType" name="MSSQL" minOccurs="0"/>  
      <xs:element type="ORACLEType" name="ORACLE" minOccurs="0"/>  
      <xs:element type="SYBASEType" name="SYBASE" minOccurs="0"/>  
    </xs:sequence>  
  </xs:complexType>  
  ...  
  <xs:complexType name="SYBASEType">  
    <xs:sequence>  
      <xs:element name="DB_UDC_RESTRICTION">  
        <xs:simpleType>  
          <xs:restriction base="xs:integer">  
            <xs:enumeration value="1"/>  
          </xs:restriction>  
        </xs:simpleType>  
      </xs:element>  
      <xs:element name="DB_UDC_LIMIT">  
        <xs:simpleType>  
          <xs:restriction base="xs:integer">  
            <xs:minInclusive value="1"/>  
            <xs:maxInclusive value="2500"/>  
          </xs:restriction>  
        </xs:simpleType>  
      </xs:element>  
    </xs:sequence>  
  </xs:complexType>  
  ...
```

## Sample - Control API for Sybase

We have added new CHECK\_TYPE element to the XML output for Control List API: Sybase Database Check.

### API request:

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
-d "action=list&details=All&ids=100947"
"https://qualysapi.qualys.com/api/2.0/fo/compliance/control/"
```

### XML output:

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE CONTROL_LIST_OUTPUT SYSTEM
"https://qualysapi.qualys.com/api/2.0/fo/compliance/control/control_list_
output.dtd">
<CONTROL_LIST_OUTPUT>
  <RESPONSE>
    <DATETIME>2020-03-21T05:29:10Z</DATETIME>
    <CONTROL_LIST>
      <CONTROL>
        ...
        <![CDATA[sybase db udc]]>
        </STATEMENT>
        <CRITICALITY>
          <LABEL>
            <![CDATA[UNDEFINED]]>
          </LABEL>
          <VALUE>0</VALUE>
        </CRITICALITY>
        <CHECK_TYPE>
          <![CDATA[Sybase Database Check]]>
        </CHECK_TYPE>
        <COMMENT>
          <![CDATA[]]>
        </COMMENT>
        <IGNORE_ERROR>0</IGNORE_ERROR>
        <ERROR_SET_STATUS></ERROR_SET_STATUS>
        <TECHNOLOGY_LIST>
          <TECHNOLOGY>
            <ID>69</ID>
            <NAME>Sybase ASE 15</NAME>
            <RATIONALE>
              ...
            </RATIONALE>
          </TECHNOLOGY>
        </TECHNOLOGY_LIST>
      </CONTROL>
    </CONTROL_LIST>
  </RESPONSE>
</CONTROL_LIST_OUTPUT>
```



## Sample - Posture API

We've added support for Sybase technologies (Sybase ASE 15 and SAP ASE 16) Database UDC for Posture API.

### API request:

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"  
-d "action=list&policy_id=1303776&details=All&include_dp_name=1"  
"https://qualysapi.qualys.com/api/2.0/fo/compliance/posture/info/"
```

### XML output:

```
<?xml version="1.0" encoding="UTF-8" ?>  
<!DOCTYPE POSTURE_INFO_LIST_OUTPUT SYSTEM  
"https://qualysapi.qualys.com/api/2.0/fo/compliance/posture/info/posture_  
info_list_output.dtd">  
<POSTURE_INFO_LIST_OUTPUT>  
  <RESPONSE>  
    <DATETIME>2020-03-21T05:21:14Z</DATETIME>  
    <INFO>  
      <ID>90290</ID>  
      <HOST_ID>7916697</HOST_ID>  
      <CONTROL_ID>100947</CONTROL_ID>  
      <TECHNOLOGY_ID>116</TECHNOLOGY_ID>  
      <INSTANCE>SAP ASE 16:5000:COMSYBASE16:master</INSTANCE>  
      <STATUS>Failed</STATUS>  
      <POSTURE_MODIFIED_DATE>2020-03-  
21T04:39:47Z</POSTURE_MODIFIED_DATE>  
      <PREVIOUS_STATUS>Failed</PREVIOUS_STATUS>  
      <FIRST_FAIL_DATE>2020-03-21T04:39:47Z</FIRST_FAIL_DATE>  
      <LAST_FAIL_DATE>2020-03-21T05:09:53Z</LAST_FAIL_DATE>  
      <FIRST_PASS_DATE>N/A</FIRST_PASS_DATE>  
      <LAST_PASS_DATE>N/A</LAST_PASS_DATE>  
    </INFO>  
    ...  
  <SUMMARY>  
    <TOTAL_ASSETS>1</TOTAL_ASSETS>  
    <TOTAL_CONTROLS>3</TOTAL_CONTROLS>  
    <CONTROL_INSTANCES>  
      <TOTAL>15</TOTAL>  
      <TOTAL_PASSED>0</TOTAL_PASSED>  
      <TOTAL_FAILED>15</TOTAL_FAILED>  
      <TOTAL_ERROR>0</TOTAL_ERROR>  
      <TOTAL_EXCEPTIONS>0</TOTAL_EXCEPTIONS>  
    </CONTROL_INSTANCES>  
  </SUMMARY>  
  <GLOSSARY>  
    ...  
  <CONTROL>
```

```
<ID>100947</ID>
<STATEMENT>
  <![CDATA[sybase db udc]]>
</STATEMENT>
<CRITICALITY>
  <LABEL>
    <![CDATA[UNDEFINED]]>
  </LABEL>
  <VALUE>0</VALUE>
</CRITICALITY>
</CONTROL>
...
</GLOSSARY>
</RESPONSE>
</POSTURE_INFO_LIST_OUTPUT>
```

## Sample - Policy API

We have updated support for Sybase technologies (Sybase ASE 15 and SAP ASE 16) Database UDC for Policy Export API.

### API request:

```
curl -u "USERNAME:PASSWORD" -H "Content-type: text/xml" -X "POST"
-d "action=export&id=1358790&show_user_controls=1"
"https://qualysapi.qualys.com/api/2.0/fo/compliance/policy/"
```

### XML output:

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE POLICY_EXPORT_OUTPUT SYSTEM
"https://qualysapi.qualys.com/api/2.0/fo/compliance/policy/policy_export_
output.dtd">
<POLICY_EXPORT_OUTPUT>
  <RESPONSE>
    <DATETIME>2020-03-21T05:35:07Z</DATETIME>
    <POLICY>
      <TITLE>
        <![CDATA[sybase db udc]]>
      </TITLE>
      <EXPORTED>
        <![CDATA[2020-03-21T05:35:07Z]]>
      </EXPORTED>
      <COVER_PAGE>
        <![CDATA[]]>
      </COVER_PAGE>
      <STATUS>
        <![CDATA[active]]>
      </STATUS>
```

```
<TECHNOLOGIES total="4">
  <TECHNOLOGY>
    <ID>69</ID>
    <NAME>Sybase ASE 15</NAME>
  </TECHNOLOGY>
  <TECHNOLOGY>
    <ID>116</ID>
    <NAME>SAP ASE 16</NAME>
  </TECHNOLOGY>
</TECHNOLOGIES>
...
  <STATEMENT>
    <![CDATA[sybase db udc]]>
  </STATEMENT>
  <CRITICALITY>
    <LABEL>
      <![CDATA[UNDEFINED]]>
    </LABEL>
    <VALUE>0</VALUE>
  </CRITICALITY>
  <COMMENT>
    <![CDATA[]]>
  </COMMENT>
  <IGNORE_ERROR>0</IGNORE_ERROR>
  <ERROR_SET_STATUS></ERROR_SET_STATUS>
  <TECHNOLOGIES total="4">
    <TECHNOLOGY>
      <ID>69</ID>
      <NAME>Sybase ASE 15</NAME>
      <EVALUATE>
        <CTRL>
          <AND>
            <OR>
              <DP>
</K>custom.sybase_query.1027025</K>
...
  </RESPONSE>
</POLICY_EXPORT_OUTPUT>
```

## Schema update: ImportableControl.xsd

The enumeration value Sybase Database Check is added in ImportableControl.xsd schema.

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
...
<xs:element name="CHECK_TYPE">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="Registry Key Existence" />
      <xs:enumeration value="Registry Value Existence" />
      <xs:enumeration value="Registry Value Content Check" />
      <xs:enumeration value="Registry Permission" />
      <xs:enumeration value="Window File/Directory Existence" />
      <xs:enumeration value="Window File/Directory Permission" />
      <xs:enumeration value="Unix File/Directory Permission" />
      <xs:enumeration value="Unix File Content Check" />
      <xs:enumeration value="Unix File/Directory Existence" />
      <xs:enumeration value="Window File Integrity Check" />
      <xs:enumeration value="Unix File Integrity Check" />
      <xs:enumeration value="WMI Query Check" />
      <xs:enumeration value="Share Access Check" />
      <xs:enumeration value="Unix Directory Search Check" />
      <xs:enumeration value="Windows Directory Search Check" />
      <xs:enumeration value="Windows Group Membership Check" />
      <xs:enumeration value="Windows Directory Integrity Check"
/>
      <xs:enumeration value="Unix Directory Integrity Check" />
      <xs:enumeration value="MSSQL Database Check" />
      <xs:enumeration value="Oracle Database Check" />
      <xs:enumeration value="Sybase Database Check" />
      <xs:enumeration value="Windows File Content Check" />
    </xs:restriction>
  </xs:simpleType>
</xs:element>
...
```