



Qualys Cloud Suite API Release Notes

Version 2.28

Qualys Cloud Suite API gives you ways to integrate your programs and API calls with Qualys capabilities. You'll find all the details in our documentation, available at the time of release. Looking for our API user guides? Just log in to your account and go to Help > Resources.

What's New

[WAS - Generating Reports using templates](#)

[WAS - Retest findings](#)

[WAS - Launch multiscan](#)

[WAS - Schedule a multiscan](#)

[WAS - Enhanced tag selection](#)

Tell me about the base URL Our documentation and sample code use the API server URL for US Platform 1. Do you have another base URL? If yes please use it instead.

Account Login	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>

WAS - Generating Reports using templates

With our new Reporttemplate API, you can search for existing templates as well as get the details of an existing template. You can also use templates to generate reports through API, such as web application report, scan report, catalog report, and scorecard report.

URL: `https://qualysapi.qualys.com/qps/rest/3.0/search/was/reporttemplate`

Method allowed: POST

Search Report Template

New XSD: [Reporttemplate XSD](#)

You can search for templates by using different filters for template ID, template name or type of report.

API Request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/search/was/reporttemplate" <
file.xml
```

Note: "file.xml" contains the request POST data.

Request POST Data (file.xml):

```
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="EQUALS">876048</Criteria>
  </filters>
</ServiceRequest>
```

XML response:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
was/reporttemplate.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <ReportTemplate>
      <id>876048</id>
      <name><![CDATA[Web Application Report]]></name>
      <description>
        <![CDATA[Each targeted web application is listed with the
total number of detected vulnerabilities and sensitive content.]]>
```

```

</description>
<owner>
  <id>23220145</id>
  <username>username</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Smith]]></lastName>
</owner>
<type>WAS_WEBAPP_REPORT</type>
<creationDate>2017-04-11T09:29:23Z</creationDate>
<tags>
  <count>0</count>
</tags>
<config>
  <webAppReportTemplate>
    <display>
      <contents>
<WebAppReportContent>DESCRIPTION</WebAppReportContent>
<WebAppReportContent>SUMMARY</WebAppReportContent>
<WebAppReportContent>GRAPHS</WebAppReportContent>
<WebAppReportContent>RESULTS</WebAppReportContent>
<WebAppReportContent>INDIVIDUAL_RECORDS</WebAppReportContent>
<WebAppReportContent>RECORD_DETAILS</WebAppReportContent>
<WebAppReportContent>APPENDIX</WebAppReportContent>
      </contents>
      <graphs>
<WebAppReportGraph>VULNERABILITIES_BY_SEVERITY</WebAppReportGraph>
<WebAppReportGraph>VULNERABILITIES_BY_STATUS</WebAppReportGraph>
<WebAppReportGraph>VULNERABILITIES_BY_GROUP</WebAppReportGraph>
<WebAppReportGraph>VULNERABILITIES_BY_OWASP</WebAppReportGraph>
      </graphs>
      <groups>
        <WebAppReportGroup>WEBAPP</WebAppReportGroup>
        <WebAppReportGroup>CATEGORY</WebAppReportGroup>
        <WebAppReportGroup>GROUP</WebAppReportGroup>
        <WebAppReportGroup>QID</WebAppReportGroup>
      </groups>
      <options>
<rawLevels>>true</rawLevels>
      </options>
    </display>
    <filters>
      <includedSearchLists/>
      <excludedSearchLists/>
      <url><![CDATA[null]]></url>
      <status>
        <WebAppFindingStatus>NEW</WebAppFindingStatus>
        <WebAppFindingStatus>ACTIVE</WebAppFindingStatus>
        <WebAppFindingStatus>REOPENED</WebAppFindingStatus>
      </status>
    </filters>
  </webAppReportTemplate>
</config>

```

```

        <remediation>
            <showPatched>SHOW_BOTH</showPatched>
            <showIgnored>SHOW_NONE</showIgnored>
            <ignoredReasons>
<IgnoredReason>NOT_APPLICABLE</IgnoredReason>
<IgnoredReason>FALSE_POSITIVE</IgnoredReason>
                <IgnoredReason>RISK_ACCEPTED</IgnoredReason>
            </ignoredReasons>
        </remediation>
    </filters>
</webAppReportTemplate>
</config>
</ReportTemplate>
</data>
</ServiceResponse>

```

Get Report Template

New XSD: [Reporttemplate XSD](#)

We can view the report template by specifying the template ID.

API Request:

```

curl -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/reporttemplate/876048"

```

XML response:

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
was/reporttemplate.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <ReportTemplate>
            <id>876048</id>
            <name><![CDATA[Web Application Report]]></name>
            <description>
                <![CDATA[Each targeted web application is listed with the
total number of detected vulnerabilities and sensitive content.]]>
            </description>
            <owner>
                <id>23220145</id>
                <username>john_doe</username>
                <firstName><![CDATA[John]]></firstName>
                <lastName><![CDATA[Doe]]></lastName>
            </owner>
            <type>WAS_WEBAPP_REPORT</type>

```

```

    <creationDate>2017-04-11T09:29:23Z</creationDate>
    <tags>
      <count>0</count>
    </tags>
    <config>
      <webAppReportTemplate>
        <display>
          <contents>
            <WebAppReportContent>DESCRIPTION</WebAppReportContent>
            <WebAppReportContent>SUMMARY</WebAppReportContent>
            <WebAppReportContent>GRAPHS</WebAppReportContent>
            <WebAppReportContent>RESULTS</WebAppReportContent>
            <WebAppReportContent>INDIVIDUAL_RECORDS</WebAppReportContent>
            <WebAppReportContent>RECORD_DETAILS</WebAppReportContent>
            <WebAppReportContent>APPENDIX</WebAppReportContent>
          </contents>
          <graphs>
            <WebAppReportGraph>VULNERABILITIES_BY_SEVERITY</WebAppReportGraph>
            <WebAppReportGraph>VULNERABILITIES_BY_STATUS</WebAppReportGraph>
            <WebAppReportGraph>VULNERABILITIES_BY_GROUP</WebAppReportGraph>
            <WebAppReportGraph>VULNERABILITIES_BY_OWASP</WebAppReportGraph>
          </graphs>
          <groups>
            <WebAppReportGroup>WEBAPP</WebAppReportGroup>
            <WebAppReportGroup>CATEGORY</WebAppReportGroup>
            <WebAppReportGroup>GROUP</WebAppReportGroup>
            <WebAppReportGroup>QID</WebAppReportGroup>
          </groups>
          <options>
            <rawLevels>>true</rawLevels>
          </options>
        </display>
        <filters>
          <includedSearchLists/>
          <excludedSearchLists/>
          <url><![CDATA[null]]></url>
          <status>
            <WebAppFindingStatus>NEW</WebAppFindingStatus>
            <WebAppFindingStatus>ACTIVE</WebAppFindingStatus>
            <WebAppFindingStatus>REOPENED</WebAppFindingStatus>
          </status>
          <remediation>
            <showPatched>SHOW_BOTH</showPatched>
            <showIgnored>SHOW_NONE</showIgnored>
            <ignoredReasons>
              <IgnoredReason>NOT_APPLICABLE</IgnoredReason>
            <IgnoredReason>FALSE_POSITIVE</IgnoredReason>
            <IgnoredReason>RISK_ACCEPTED</IgnoredReason>
          </ignoredReasons>
        </filters>
      </webAppReportTemplate>
    </config>
  </report>

```

```
        </remediation>
      </filters>
    </webAppReportTemplate>
  </config>
</ReportTemplate>
</data>
</ServiceResponse>
```

Count WebApp Report

New XSD: [Reporttemplate XSD](#)

Returns the total number of report templates in the user's scope. Input elements are optional and are used to filter the number of templates included in the count.

API Request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/count/was/reporttemplate" <
file.xml
```

Note: "file.xml" contains the request POST data.

Request POST Data (file.xml):

```
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="EQUALS">1234</Criteria>
  </filters>
</ServiceRequest>
```

XML response:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
was/reporttemplate.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>6</count>
</ServiceResponse>
```

WebApp Report

Let's generate a web application report in PDF format using a specific template (identified by its template ID).

API Request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
```

"https://qualysapi.qualys.com/qps/rest/3.0/create/was/report/" < file.xml
 Note: "file.xml" contains the request POST data.

Request POST Data (file.xml):

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <Report>
      <name>Web_App_Report</name>
      <description><![CDATA[A web application report]]></description>
      <type>WAS_WEBAPP_REPORT</type>
      <format>PDF</format>
      <config>
        <webAppReport>
          <target>
            <tags>
              <included>
                <option>ALL</option>
                <tagList>
                  <Tag>
                    <id>12001856</id>
                  </Tag>
                </tagList>
              </included>
              <excluded>
                <option>ANY</option>
                <tagList>
                  <Tag>
                    <id>12001856</id>
                  </Tag>
                </tagList>
              </excluded>
            </tags>
          </target>
        </webAppReport>
      </config>
      <template>
        <id>876048</id>
      </template>
    </Report>
  </data>
</ServiceRequest>
```

XML response:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
```

```
was/report.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>973056</id>
    </Report>
  </data>
</ServiceResponse>
```

Scan Report

Let's generate a scan report in PDF format using a specific template (identified by its template ID).

API Request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/report/" < file.xml
Note: "file.xml" contains the request POST data.
```

Request POST Data (file.xml):

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[Scan Report for Servers]]></name>
      <format>PDF</format>
      <template>
        <id>876049</id>
      </template>
      <config>
        <scanReport>
          <target>
            <scans>
              <WasScan>
                <id>2252466</id>
              </WasScan>
            </scans>
          </target>
        </scanReport>
      </config>
    </Report>
  </data>
</ServiceRequest>
```


XML response:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
was/report.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>973057</id>
    </Report>
  </data>
</ServiceResponse>
```

Catalog Report

Let's generate a catalog report in PDF format using a specific template (identified by its template ID).

API Request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/report/" < file.xml
Note: "file.xml" contains the request POST data.
```

Request POST Data (file.xml):

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[Catalog Report for Servers]]></name>
      <description><![CDATA[A simple catalog report]]></description>
      <format>PDF</format>
      <template>
        <id>876050</id>
      </template>
    </Report>
  </data>
</ServiceRequest>
```

XML response:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
was/report.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
```

```

    <data>
      <Report>
        <id>973058</id>
      </Report>
    </data>
  </ServiceResponse>

```

Scorecard Report

Let's generate a scorecard report in HTML format using a specific template (identified by its template ID).

API Request:

```

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/report/" < file.xml
Note: "file.xml" contains the request POST data.

```

Request POST Data (file.xml):

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <Report>
      <name>Report_08</name>
      <description><![CDATA[A scorecard report]]></description>
      <type>WAS_SCORECARD_REPORT</type>
      <format>HTML_ZIPPED</format>
      <template>
        <id>876051</id>
      </template>
      <config>
        <scorecardReport>
          <target>
            <tags>
              <included>
                <option>ALL</option>
                <tagList>
                  <Tag>
                    <id>11999629</id>
                  </Tag>
                </tagList>
              </included>
              <excluded>
                <option>ANY</option>
                <tagList>
                  <Tag>
                    <id>11999629</id>
                  </Tag>
                </tagList>
              </excluded>
            </tags>
          </target>
        </scorecardReport>
      </config>
    </Report>
  </data>
</ServiceRequest>

```

```
        </tagList>
      </excluded>
    </tags>
  </target>
</scorecardReport>
</config>
</Report>
</data>
</ServiceRequest>
```

XML response:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
was/report.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report>
      <id>973058</id>
    </Report>
  </data>
</ServiceResponse>
```

WAS - Retest findings

You can now easily retest the findings for individual vulnerabilities using Finding API to test the selected finding. Only potential vulnerabilities, confirmed vulnerabilities and sensitive contents are available for retest.

URL: `https://qualysapi.qualys.com/qps/rest/3.0/retest/was/finding"`
or
`https://qualysapi.qualys.com/qps/rest/3.0/retest/was/finding/`
<id>

Methods allowed: POST

Updated XSD: Finding XSD

```
<xs:schema
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  .....
  <xs:complexType name="Retest">
    <xs:all>
      <xs:element name="retestStatus" type="RetestStatus" minOccurs="0"/>
      <xs:element name="retestedDate" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="retestedUser" type="User" minOccurs="0"/>
      <!--
        Status and reason only available is retestStatus is RETESTED
      -->
      <xs:element name="findingStatus" type="xs:string" minOccurs="0"/>
      <xs:element name="reason" type="xs:string" minOccurs="0"/>
    </xs:all>
  </xs:complexType>
</xs:schema>
```

To retest a selecting finding, you could either use the finding ID in the request or specify a filter to detect the finding.

Example 1 (Using Filter Criteria)

API Request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/retest/was/finding" < file.xml
Note: "file.xml" contains the request POST data.
```

Request POST Data (file.xml):

```
<ServiceRequest>
  <data>
    <Finding>
      <id>1728792</id>
    </Finding>
  </data>
</ServiceRequest>
```

XML response:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/portal-
api/xsd/3.0/was/finding.xsd" >
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>1728792</id>
    </Finding>
  </data>
</ServiceResponse>
```

Example 2 (Using Finding ID)

API Request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/retest/was/finding/1728792" <
```

XML response:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
xsi:noNamespaceSchemaLocation="http://qualysapi.qualys.com/portal-
api/xsd/3.0/was/finding.xsd"
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>1728792</id>
    </Finding>
  </data>
</ServiceResponse>
```

WAS - Launch multiscan

We've enhanced the ability to support large web application scanning programs by adding the ability to scan any number of web applications as a Multi-Scan through API. This feature enables you to scan hundreds or even thousands of web applications you may have in your organization with granular insight into what scans are running and which ones are complete.

Updated XSD: wasscan.xsd

```
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  <!-- REQUEST -->
  <xs:element name="ServiceRequest">
  <xs:complexType>
  ...
  <xs:simpleType name="ProgressiveScanningOption">
    <xs:restriction base="xs:string">
      <xs:enumeration value="DEFAULT"/>
      <xs:enumeration value="ENABLED"/>
      <xs:enumeration value="DISABLED"/>
    </xs:restriction>
  </xs:simpleType>
  ...
</xs:schema>
```

Example 1

Let's launch a multi- scan for two web applications by specifying its web app ID.

API Request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/launch/was/wasscan" < file.xml
Note: "file.xml" contains the request POST data.
```

Request POST Data (file.xml):

```
<ServiceRequest>
  <data>
    <WasScan>
      <name>1497343127459_Scan7</name>
      <type>DISCOVERY</type>
      <target>
        <scannerAppliance>
          <type>EXTERNAL</type>
        </scannerAppliance>
        <webApps>
```

```

        <set>
            <WebApp>
                <id>4330527</id>
            </WebApp>
            <WebApp>
                <id>4330327</id>
            </WebApp>
        </set>
    </webApps>
    <profileOption>DEFAULT</profileOption>
</target>
<profile>
    <id>1070535</id>
</profile>
</WasScan>
</data>
</ServiceRequest>

```

XML response:

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/w
as/wasscan.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WasScan>
            <id>2281862</id>
        </WasScan>
    </data>
</ServiceResponse>

```

Example 2

Let's launch a multi- scan for all the web applications associated with the tags specified in the request filter.

API Request:

```

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/launch/was/wasscan" < file.xml
Note: "file.xml" contains the request POST data.

```

Request POST Data (file.xml):

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
    <data>

```

```

<WasScan>
  <name>1497343127649_Scan9</name>
  <type>DISCOVERY</type>
  <target>
    <scannerAppliance>
      <type>EXTERNAL</type>
    </scannerAppliance>
    <tags>
      <included>
        <option>ALL</option>
        <tagList>
          <set>
            <Tag>
              <id>12016424</id>
            </Tag>
            <Tag>
              <id>12016228</id>
            </Tag>
          </set>
        </tagList>
      </included>
      <excluded>
        <option>ANY</option>
        <tagList>
          <set>
            <Tag>
              <id>12016228</id>
            </Tag>
          </set>
        </tagList>
      </excluded>
    </tags>
    <scannerOption>DEFAULT</scannerOption>
  </target>
  <profile>
    <id>1070535</id>
  </profile>
</WasScan>
</data>
</ServiceRequest>

```

XML response:

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/w
as/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>

```


WAS - Launch multiscan

```
<data>
  <WasScan>
    <id>2281863</id>
  </WasScan>
</data>
</ServiceResponse>
```

WAS - Schedule a multiscan

You can now schedule a Multi-Scan through API to run automatically, on a regular basis. This way you always have the most up-to-date security information in your account.

A Multi-Scan allows you to scan any number of web applications. This feature enables you to scan hundreds or even thousands of web applications you may have in your organization with granular insight into what scans are running and which ones are complete.

Updated XSD: wasscanschedule.xsd

```

xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
<!-- REQUEST -->
<xs:element name="ServiceRequest">
<xs:complexType>
...
<xs:simpleType name="ProgressiveScanningOption">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DEFAULT"/>
    <xs:enumeration value="ENABLED"/>
    <xs:enumeration value="DISABLED"/>
  </xs:restriction>
</xs:simpleType>
...
</xs:schema>

```

Example 1

Let's schedule a multi-scan for two web applications by specifying the ID for the web applications.

API Request:

```

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/wasscanschedule" <
file.xml

```

Note: "file.xml" contains the request POST data.

Request POST Data (file.xml):

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <WasScanSchedule>
      <name>MultiSchedule_1497351121650</name>
      <type>VULNERABILITY</type>
      <active>>false</active>
    </WasScanSchedule>
  </data>
</ServiceRequest>

```

```

<scheduling>
  <cancelAfterNHours>8</cancelAfterNHours>
  <startDate>2017-06-13T21:51:57Z</startDate>
  <timeZone>
    <code>America/Vancouver</code>
    <offset>-07:00</offset>
  </timeZone>
  <occurrenceType>WEEKLY</occurrenceType>
  <occurrence>
    <weeklyOccurrence>
      <everyNWeeks>2</everyNWeeks>
      <occurrenceCount>20</occurrenceCount>
      <onDays>
        <WeekDay>SATURDAY</WeekDay>
      </onDays>
    </weeklyOccurrence>
  </occurrence>
</scheduling>
<notification>
  <active>true</active>
  <reschedule>true</reschedule>
  <delay>
    <nb>1</nb>
    <scale>DAY</scale>
  </delay>
  <message><![CDATA[A scan is scheduled to start
soon.]]></message>
</notification>
<target>
  <webApps>
    <set>
      <WebApp>
        <id>4331923</id>
      </WebApp>
      <WebApp>
        <id>4331924</id>
      </WebApp>
    </set>
  </webApps>
  <webAppAuthRecord>
    <id>583957</id>
  </webAppAuthRecord>
  <scannerAppliance>
    <type>EXTERNAL</type>
  </scannerAppliance>
  <cancelOption>SPECIFIC</cancelOption>
  <authRecordOption>DEFAULT</authRecordOption>
  <profileOption>SPECIFIC</profileOption>
  <scannerOption>DEFAULT</scannerOption>

```

```

        <randomizeScan>true</randomizeScan>
        <useDnsOverride>true</useDnsOverride>
    </target>
    <profile>
        <id>1071133</id>
    </profile>
</WasScanSchedule>
</data>
</ServiceRequest>

```

XML response:

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
was/wasscanschedule.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WasScanSchedule>
            <id>697193</id>
            <name><![CDATA[MultiSchedule_1497351121650]]></name>
            <owner>
                <id>2911477</id>
                <username>john_doe</username>
                <firstName><![CDATA[John]]></firstName>
                <lastName><![CDATA[Doe]]></lastName>
            </owner>
            <active>>false</active>
            <multi>>true</multi>
            <type>VULNERABILITY</type>
            <target>
                <webApps>
                    <list>
                        <WebApp>
                            <id>4331923</id>
                            <name><![CDATA[web app 1497351058103]]></name>
                            <url><![CDATA[http://www.afco.com/cassium/xss/]]></url>
                        </WebApp>
                        <WebApp>
                            <id>4331924</id>
                            <name><![CDATA[web app 1497351100446]]></name>
                            <url><![CDATA[http://www.afco.com/cassium/xss/]]></url>
                        </WebApp>
                    </list>
                </webApps>
            </target>
        </WasScanSchedule>
    </data>
</ServiceResponse>

```

```

        </list>
    </webApps>
    <webAppAuthRecord>
        <id>583957</id>
        <name><![CDATA[Form and Server]149735111801]]></name>
    </webAppAuthRecord>
    <scannerAppliance>
        <type>EXTERNAL</type>
    </scannerAppliance>
    <cancelOption>SPECIFIC</cancelOption>
    <authRecordOption>DEFAULT</authRecordOption>
    <profileOption>SPECIFIC</profileOption>
    <scannerOption>DEFAULT</scannerOption>
    <randomizeScan>true</randomizeScan>
    <useDnsOverride>true</useDnsOverride>
</target>
<progressiveScanning>DEFAULT</progressiveScanning>
<profile>
    <id>1071133</id>
    <name><![CDATA[My Option Profile - with defaults
1497351048931]]></name>
</profile>
<scheduling>
    <startDate>2017-06-13T21:51:00Z</startDate>
    <timeZone>
        <code>America/Vancouver</code>
        <offset>-07:00</offset>
    </timeZone>
    <occurrenceType>WEEKLY</occurrenceType>
    <occurrence>
        <weeklyOccurrence>
            <everyNWeeks>2</everyNWeeks>
            <onDays>
                <WeekDay>SATURDAY</WeekDay>
            </onDays>
            <occurrenceCount>20</occurrenceCount>
        </weeklyOccurrence>
    </occurrence>
    <cancelAfterNHours>8</cancelAfterNHours>
</scheduling>
<notification>
    <active>true</active>
    <reschedule>true</reschedule>
    <delay>
        <nb>1</nb>
        <scale>DAY</scale>
    </delay>
    <message><![CDATA[A scan is scheduled to start
soon.]]></message>

```

```

</notification>
<launchedCount>0</launchedCount>
<createdDate>2017-06-13T10:52:07Z</createdDate>
<createdBy>
  <id>2911477</id>
  <username>john_doe</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</createdBy>
<updatedAt>2017-06-13T10:52:09Z</updatedAt>
<updatedBy>
  <id>2911477</id>
  <username>john_doe</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</updatedBy>
<sendMail>true</sendMail>
<enableWAFAuth>>false</enableWAFAuth>
</WasScanSchedule>
</data>
</ServiceResponse>

```

Example 2:

Let's schedule a multi-scan for all the web applications that are associated with the tags specified in the request filter.

API Request:

```

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/wasscanschedule" <
file.xml

```

Note: "file.xml" contains the request POST data.

Request POST Data (file.xml):

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <WasScanSchedule>
      <name>SampleSchedule</name>
      <type>VULNERABILITY</type>
      <active>>false</active>
      <scheduling>
        <cancelAfterNHours>8</cancelAfterNHours>
        <startDate>2017-06-13T21:51:57Z</startDate>
        <timeZone>
          <code>America/Vancouver</code>
          <offset>-07:00</offset>

```

```

</timeZone>
<occurrenceType>WEEKLY</occurrenceType>
<occurrence>
  <weeklyOccurrence>
    <everyNWeeks>2</everyNWeeks>
    <occurrenceCount>20</occurrenceCount>
    <onDays>
      <WeekDay>SATURDAY</WeekDay>
    </onDays>
  </weeklyOccurrence>
</occurrence>
</scheduling>
<notification>
  <active>true</active>
  <reschedule>true</reschedule>
  <delay>
    <nb>1</nb>
    <scale>DAY</scale>
  </delay>
  <message><![CDATA[A scan is scheduled to start
soon.]]></message>
</notification>
<target>
<tags>
  <included>
    <option>ALL</option>
    <tagList>
      <set>
        <Tag>
          <id>12016424</id>
        </Tag>
        <Tag>
          <id>12016228</id>
        </Tag>
      </set>
    </tagList>
  </included>
  <excluded>
    <option>ANY</option>
    <tagList>
      <set>
        <Tag>
          <id>12016228</id>
        </Tag>
      </set>
    </tagList>
  </excluded>
</tags>
<webAppAuthRecord>

```

```

        <id>583957</id>
      </webAppAuthRecord>
    <scannerAppliance>
      <type>EXTERNAL</type>
    </scannerAppliance>
    <cancelOption>SPECIFIC</cancelOption>
    <authRecordOption>DEFAULT</authRecordOption>
    <profileOption>SPECIFIC</profileOption>
    <scannerOption>DEFAULT</scannerOption>
    <randomizeScan>true</randomizeScan>
    <useDnsOverride>true</useDnsOverride>
  </target>
</profile>
  <id>1071133</id>
</profile>
</WasScanSchedule>
</data>
</ServiceRequest>

```

XML response:

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/w
as/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <id>699795</id>
      <name>
        <![CDATA[Schedule a multi scan for multiple web apps]]>
      </name>
      <owner>
        <id>2911477</id>
        <username>john_doe</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
      </owner>
      <active>>false</active>
      <multi>true</multi>
      <type>VULNERABILITY</type>
      <target>
        <tags>
          <included>
            <option>ANY</option>
          <tagList>
            <list>
              <Tag>

```



```

        <id>12016424</id>
      </Tag>
    <Tag>
      <id>12016228</id>
    </Tag>
  </list>
</tagList>
</included>
<excluded>
  <option>ANY</option>
  <tagList>
    <list>
      <Tag>
        <id>12016228</id>
      </Tag>
    </list>
  </tagList>
</excluded>
</tags>
<webAppAuthRecord>
  <id>583957</id>
  <name>
    <![CDATA[Form and Server]149735111801]]>
  </name>
</webAppAuthRecord>
<scannerAppliance>
  <type>EXTERNAL</type>
</scannerAppliance>
<cancelOption>SPECIFIC</cancelOption>
<authRecordOption>DEFAULT</authRecordOption>
<profileOption>SPECIFIC</profileOption>
<scannerOption>DEFAULT</scannerOption>
<randomizeScan>true</randomizeScan>
<useDnsOverride>true</useDnsOverride>
</target>
<progressiveScanning>DEFAULT</progressiveScanning>
<profile>
  <id>1071133</id>
  <name>
    <![CDATA[My Option Profile - with defaults
1497351048931]]>
  </name>
</profile>
<scheduling>
  <startDate>2017-06-13T21:51:00Z</startDate>
  <timeZone>
    <code>America/Vancouver</code>
    <offset>-07:00</offset>
  </timeZone>

```

```

    <occurrenceType>WEEKLY</occurrenceType>
    <occurrence>
      <weeklyOccurrence>
        <everyNWeeks>2</everyNWeeks>
        <onDays>
          <WeekDay>SATURDAY</WeekDay>
        </onDays>
        <occurrenceCount>20</occurrenceCount>
      </weeklyOccurrence>
    </occurrence>
    <cancelAfterNHours>8</cancelAfterNHours>
  </scheduling>
  <notification>
    <active>true</active>
    <reschedule>true</reschedule>
    <delay>
      <nb>1</nb>
      <scale>DAY</scale>
    </delay>
    <message>
      <![CDATA[A scan is scheduled to start soon.]]>
    </message>
  </notification>
  <launchedCount>0</launchedCount>
  <createdDate>2017-06-15T09:19:09Z</createdDate>
  <createdBy>
    <id>2911477</id>
    <username>john_doe</username>
    <firstName><![CDATA[John]]></firstName>
    <lastName><![CDATA[Doe]]></lastName>
  </createdBy>
  <updatedAt>2017-06-15T09:19:09Z</updatedAt>
  <updatedBy>
    <id>2911477</id>
    <username>john_doe</username>
    <firstName><![CDATA[John]]></firstName>
    <lastName><![CDATA[Doe]]></lastName>
  </updatedBy>
  <sendMail>true</sendMail>
  <enableWAFAuth>>false</enableWAFAuth>
</WasScanSchedule>
</data>
</ServiceResponse>

```

WAS - Enhanced tag selection

We have now enhanced our support for selection of assets linked to the tags when you launch a scan, create or edit a schedule, generate or schedule a Scorecard report or Web application report. You can now tell us the tag id in the request and specify if any or all the assets associated with the tag should be included or excluded in the scan result or report.

Launch Discovery Scan

XSD Changes:wasscan.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  ...
  <xs:complexType name="WasScanTarget">
    <xs:all>
      <xs:element name="webApps" type="WebAppList" minOccurs="0"/>
      <xs:element name="tags" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="included" minOccurs="0"
maxOccurs="1">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="option"
type="xs:string" minOccurs="0" />
                  <xs:element name="tagList"
type="TagList" minOccurs="0" />
                </xs:sequence>
              </xs:complexType>
            </xs:element>
            <xs:element name="excluded" minOccurs="0"
maxOccurs="1">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="option"
type="xs:string" minOccurs="0" />
                  <xs:element name="tagList"
type="TagList" minOccurs="0" />
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:all>
  </xs:complexType>
</xs:schema>
```

```
.....  
</xs:schema>
```

API Request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"  
--data-binary @-  
"https://qualysapi.qualys.com/qps/rest/3.0/launch/was/wasscan" < file.xml  
Note: "file.xml" contains the request POST data.
```

Request POST Data (file.xml):

```
<ServiceRequest>  
  <data>  
    <WasScan>  
      <name><![CDATA[Discovery Scan]]></name>  
      <type>DISCOVERY</type>  
      <target>  
        <scannerAppliance>  
<type>EXTERNAL</type>  
</scannerAppliance>  
        <tags>  
          <included>  
            <option>ALL</option>  
            <tagList>  
              <set>  
                <Tag>  
                  <id>12008216</id>  
                </Tag>  
              </set>  
            </tagList>  
          </included>  
          <excluded>  
            <option>ANY</option>  
            <tagList>  
              <set>  
                <Tag>  
                  <id>12008219</id>  
                </Tag>  
              </set>  
            </tagList>  
          </excluded>  
        </tags>  
      </target>  
      <profile><id>598333</id></profile>  
    </WasScan>  
  </data>  
</ServiceRequest>
```

XML response:

```
<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
was/wasscan.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScan>
      <id>2288457</id>
    </WasScan>
  </data>
</ServiceResponse>
```

Create Schedule

XSD Changes:wasscanschedule.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  ...
  <xs:complexType name="WasScanTarget">
    <xs:all>
      <xs:element name="webApps" type="WebAppList" minOccurs="0"/>
      <xs:element name="tags" minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="included" minOccurs="0"
maxOccurs="1">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="option"
type="xs:string" minOccurs="0" />
                  <xs:element name="tagList"
type="TagList" minOccurs="0" />
                </xs:sequence>
              </xs:complexType>
            </xs:element>
            <xs:element name="excluded" minOccurs="0"
maxOccurs="1">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="option"
type="xs:string" minOccurs="0" />
                  <xs:element name="tagList"
type="TagList" minOccurs="0" />
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:all>
  </xs:complexType>
```

```

        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>
...
</xs:simpleType>
</xs:schema>

```

API Request:

```

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/wasscanschedule" <
file.xml

```

Note: "file.xml" contains the request POST data.

Request POST Data(file.xml):

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceRequest>
  <data>
    <WasScanSchedule>
      <name><![CDATA[Scheduled Scan]]></name>
      <type>VULNERABILITY</type>
      <active>>false</active>
      <scheduling>
<startDate>2017-06-15T14:50:06Z</startDate>
<timeZone>
<code>Asia/Kolkata</code>
<offset>+05:30</offset>
</timeZone>
<occurrenceType>ONCE</occurrenceType>
</scheduling>
<notification>
<active>>true</active>
<reschedule>>true</reschedule>
<delay>
<nb>1</nb>
<scale>DAY</scale>
</delay>
<message><![CDATA[A scan is scheduled to start soon.]]></message>
</notification>
      <target>
        <scannerAppliance>
<type>EXTERNAL</type>
</scannerAppliance>
      <tags>

```

```

        <included>
            <option>ALL</option>
            <tagList>
                <set>
                    <Tag>
                        <id>12008216</id>
                    </Tag>
                </set>
            </tagList>
        </included>
        <excluded>
            <option>ANY</option>
            <tagList>
                <set>
                    <Tag>
                        <id>12008219</id>
                    </Tag>
                </set>
            </tagList>
        </excluded>
    </tags>
</target>
    <profile><id>598333</id></profile>
</WasScanSchedule>
</data>
</ServiceRequest>

```

XML response:

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
was/wasscan.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WasScanSchedule>
            <id>699794</id>
            <name>
                <![CDATA[test API 1]]>
            </name>
            <owner>
                <id>2473353</id>
                <username>username</username>
                <firstName><![CDATA[John]]></firstName>
                <lastName><![CDATA[Smith]]></lastName>
            </owner>
            <active>>false</active>
            <multi>>true</multi>

```

```

<type>VULNERABILITY</type>
<target>
  <tags>
    <included>
      <option>ANY</option>
      <tagList>
        <list>
          <Tag>
            <id>12008216</id>
          </Tag>
        </list>
      </tagList>
    </included>
    <excluded>
      <option>ANY</option>
      <tagList>
        <list>
          <Tag>
            <id>12008219</id>
          </Tag>
        </list>
      </tagList>
    </excluded>
  </tags>
  <scannerAppliance>
    <type>EXTERNAL</type>
  </scannerAppliance>
</target>
<profile>
  <id>598333</id>
  <name>
    <![CDATA[Initial WAS Options]]>
  </name>
</profile>
<scheduling>
  <startDate>2017-06-15T14:50:00Z</startDate>
  <timeZone>
    <code>Asia/Kolkata</code>
    <offset>+05:30</offset>
  </timeZone>
  <occurrenceType>ONCE</occurrenceType>
</scheduling>
<notification>
  <active>true</active>
  <reschedule>true</reschedule>
  <delay>
    <nb>1</nb>
    <scale>DAY</scale>
  </delay>

```



```

        <message>
            <![CDATA[A scan is scheduled to start soon.]]>
        </message>
    </notification>
    <launchedCount>0</launchedCount>
    <createdDate>2017-06-15T09:18:03Z</createdDate>
    <createdBy>
        <id>2473353</id>
        <username>username</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
    </createdBy>
    <updatedAt>2017-06-15T09:18:04Z</updatedAt>
    <updatedBy>
        <id>2473353</id>
        <username>username</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
    </updatedBy>
    <sendMail>true</sendMail>
    <enableWAFAuth>false</enableWAFAuth>
</WasScanSchedule>
</data>
</ServiceResponse>

```

Get WAS Scan Schedule Details

API Request:

```

curl -u "USERNAME:PASSWORD" " -X GET -H "Content-type: text/xml"
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/wasscanschedule/714393"
"

```

XML response:

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
was/wasscanschedule.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WasScanSchedule>
            <id>714393</id>
            <name>
                <![CDATA[Web schedVulnerability Scan - 2017-06-30]]>
            </name>
            <owner>
                <id>2473353</id>
                <username>username</username>
            </owner>
        </WasScanSchedule>
    </data>
</ServiceResponse>

```

```

        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
    </owner>
    <active>>false</active>
    <multi>>true</multi>
    <type>VULNERABILITY</type>
    <target>
        <tags>
            <included>
                <option>ALL</option>
                <tagList>
                    <list>
                        <Tag>
                            <id>12075819</id>
                            <name>
                                <![CDATA[tag_new]]>
                            </name>
                        </Tag>
                        <Tag>
                            <id>2685657</id>
                            <name>
                                <![CDATA[Business Units]]>
                            </name>
                        </Tag>
                    </list>
                </tagList>
            </included>
        </tags>
        <scannerAppliance>
            <type>EXTERNAL</type>
        </scannerAppliance>
        <cancelOption>DEFAULT</cancelOption>
        <authRecordOption>DEFAULT</authRecordOption>
        <profileOption>DEFAULT</profileOption>
        <scannerOption>DEFAULT</scannerOption>
        <randomizeScan>>false</randomizeScan>
        <useDnsOverride>>false</useDnsOverride>
    </target>
    <profile>
        <id>598333</id>
        <name>
            <![CDATA[Initial WAS Options]]>
        </name>
    </profile>
    <scheduling>
        <startDate>2017-06-30T11:26:00Z</startDate>
        <timeZone>
            <code>Asia/Colombo</code>
            <offset>+05:30</offset>

```

```

        </timeZone>
        <occurrenceType>ONCE</occurrenceType>
    </scheduling>
    <notification>
        <active>>false</active>
        <reschedule>>false</reschedule>
        <delay>
            <nb>1</nb>
            <scale>DAY</scale>
        </delay>
        <message>
            <![CDATA[A Qualys scan is scheduled to start soon.]]>
        </message>
    </notification>
    <launchedCount>0</launchedCount>
    <createdDate>2017-06-30T05:57:12Z</createdDate>
    <createdBy>
        <id>2473353</id>
        <username>username</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
    </createdBy>
    <updatedAt>2017-07-01T05:56:02Z</updatedAt>
    <updatedBy>
        <id>2473353</id>
        <username>username</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Smith]]></lastName>
    </updatedBy>
    <sendMail>>true</sendMail>
    <enableWAFAuth>>false</enableWAFAuth>
</WasScanSchedule>
</data>
</ServiceResponse>

```

Create Report

XSD Changes: Report.xsd

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    elementFormDefault="qualified">
    ...
    <xs:complexType name="AdvancedTag">
        <xs:sequence>
            <xs:element name="included" minOccurs="0" maxOccurs="1">
                <xs:complexType>
                    <xs:sequence>

```

```

                                <xs:element name="option" minOccurs="0"
type="xs:string" />
                                <xs:element name="tagList" minOccurs="0">
                                  <xs:complexType>
                                    <xs:sequence>
                                      <xs:element name="Tag" type="Tag"
minOccurs="0" maxOccurs="unbounded"/>
                                      </xs:sequence>
                                    </xs:complexType>
                                  </xs:element>
                                </xs:sequence>
                              </xs:complexType>
        </xs:element>
        <xs:element name="excluded" minOccurs="0" maxOccurs="1">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="option" minOccurs="0"
type="xs:string" />
              <xs:element name="tagList" minOccurs="0">
                <xs:complexType>
                  <xs:sequence>
                    <xs:element name="Tag" type="Tag"
minOccurs="0" maxOccurs="unbounded"/>
                    </xs:sequence>
                  </xs:complexType>
                </xs:element>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    ...
  </xs:schema>

```

API Request:

```

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/create/was/report" < file.xml
Note: "file.xml" contains the request POST data.

```

Request POST Data (file.xml):

```

<ServiceRequest>
  <data>
    <Report>
      <name><![CDATA[Web App Report]]></name>
      <format>PDF</format>
      <type>WAS_WEBAPP_REPORT</type>
    </Report>
  </data>
</ServiceRequest>

```

```

    <config>
      <webAppReport>
        <target>
          <tags>
            <included>
              <option>ALL</option>
              <tagList>
                <Tag>
                  <id>12008216</id>
                </Tag>
              </tagList>
            </included>
            <excluded>
              <option>ANY</option>
              <tagList>
                <Tag>
                  <id>12008219</id>
                </Tag>
              </tagList>
            </excluded>
          </tags>
        </target>
      </webAppReport>
    </config>
  </Report>
</data>
</ServiceRequest>

```

XML response:

```

<?xml version="1.0" encoding="UTF-8"?>
<ServiceResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="https://qualysapi.qualys.com/qps/xsd/3.0/
was/report.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Report><id>981654</id>
  </Report>
  </data>
</ServiceResponse>

```

Reporttemplate XSD

```

<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">

  <!-- REQUEST -->
  <xs:element name="ServiceRequest">
    <xs:complexType>
      <xs:all>
        <xs:element name="filters" type="ServiceRequestFilters"
minOccurs="0"/>
        <xs:element name="preferences"
type="ServiceRequestPreferences" minOccurs="0"/>
        <xs:element name="data" type="ServiceRequestData"
minOccurs="0"/>
      </xs:all>
    </xs:complexType>
  </xs:element>

  <xs:complexType name="ServiceRequestFilters">
    <xs:sequence>
      <xs:element name="Criteria" type="Criteria"
maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="Criteria">
    <xs:simpleContent>
      <xs:extension base="xs:string">
        <xs:attribute name="field" type="xs:string"/>
        <xs:attribute name="operator">
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="CONTAINS"/>
              <xs:enumeration value="IN"/>
              <xs:enumeration value="EQUALS"/>
              <xs:enumeration value="NOT_EQUALS"/>
              <xs:enumeration value="GREATER"/>
              <xs:enumeration value="LESSER"/>
              <xs:enumeration value="NONE"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:attribute>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>

```

```

<xs:complexType name="ServiceRequestPreferences">
  <xs:all>
    <xs:element name="startFromId" type="xs:long" minOccurs="0"/>
    <xs:element name="startFromOffset" type="xs:int" minOccurs="0"/>
    <xs:element name="limitResults" type="xs:int" minOccurs="0"/>
  </xs:all>
</xs:complexType>

<xs:complexType name="ServiceRequestData">
  <xs:sequence>
    <xs:element name="ReportTemplate" type="ReportTemplate"
minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<!-- RESPONSE -->
<xs:element name="ServiceResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="responseCode" type="ResponseCode"/>
      <xs:element name="responseErrorDetails"
type="ResponseErrorObject" minOccurs="0"/>
      <xs:element name="count" type="xs:int" minOccurs="0"/>
      <xs:element name="hasMoreRecords" type="xs:boolean"
minOccurs="0"/>
      <xs:element name="lastId" type="xs:long" minOccurs="0"/>
      <xs:element name="data" type="ServiceResponseData"
minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:simpleType name="ResponseCode">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AUTH_CREDENTIALS_NEEDED"/>
    <xs:enumeration value="CANNOT_BE_NULL"/>
    <xs:enumeration value="INVALID_XML"/>
    <xs:enumeration value="INVALID_CREDENTIALS"/>
    <xs:enumeration value="INVALID_API_VERSION"/>
    <xs:enumeration value="INVALID_PARAM"/>
    <xs:enumeration value="INVALID_URL"/>
    <xs:enumeration value="INVALID_REQUEST"/>
    <xs:enumeration value="NOT_FOUND"/>
    <xs:enumeration value="OTHER_ERROR"/>
    <xs:enumeration value="OPERATION_NOT_SUPPORTED"/>
    <xs:enumeration value="EVALUATION_EXPIRED"/>
    <xs:enumeration value="JMS_SERVER_DOWN"/>
    <xs:enumeration value="RMI_SERVER_DOWN"/>
    <xs:enumeration value="SUCCESS"/>
    <xs:enumeration value="STILL_PROCESSING"/>
  </xs:restriction>
</xs:simpleType>

```

```

        <xs:enumeration value="UNAUTHORIZED" />
        <xs:enumeration value="UNAUTHORIZED_DESTINATION_APPS" />
        <xs:enumeration value="UNIDENTIFIED_PRODUCER" />
        <xs:enumeration value="UNKNOWN_OBJECT" />
    </xs:restriction>
</xs:simpleType>

<xs:complexType name="ResponseErrorObject">
    <xs:sequence>
        <xs:element name="errorMessage" type="xs:string" />
        <xs:element name="errorResolution" type="xs:string"
minOccurs="0" />
        <xs:element name="internalErrorCodeId" type="xs:int"
minOccurs="0" />
    </xs:sequence>
</xs:complexType>

<xs:complexType name="ServiceResponseData">
    <xs:sequence>
        <xs:element name="ReportTemplate" type="ReportTemplate"
minOccurs="0" maxOccurs="unbounded" />
    </xs:sequence>
</xs:complexType>

<!-- DATA -->
<xs:complexType name="ReportTemplate">
    <xs:all>
        <xs:element name="id" type="xs:long" minOccurs="0" />
        <xs:element name="name" type="Cdata" minOccurs="0" />
        <xs:element name="description" type="Cdata" minOccurs="0" />
        <xs:element name="owner" type="User" minOccurs="0" />
        <xs:element name="type" type="ReportType" minOccurs="0" />
        <xs:element name="creationDate" type="xs:dateTime"
minOccurs="0" />
        <xs:element name="tags" type="TagList" minOccurs="0" />
        <xs:element name="config" minOccurs="0" maxOccurs="1">
            <xs:complexType>
                <xs:choice minOccurs="1">
                    <xs:element name="webAppReportTemplate"
type="WebAppReportTemplate" />
                    <xs:element name="scanReportTemplate"
type="ScanReportTemplate" />
                    <xs:element name="catalogReportTemplate"
type="CatalogReportTemplate" />
                    <xs:element name="scorecardReportTemplate"
type="ScorecardReportTemplate" />
                </xs:choice>
            </xs:complexType>
        </xs:element>
    </xs:all>
</xs:complexType>

```



```

        </xs:element>
    </xs:all>
</xs:complexType>

<xs:complexType name="DatetimeRange">
    <xs:sequence>
        <xs:element name="startDate" type="xs:date" minOccurs="0"
maxOccurs="1"/>
        <xs:element name="endDate" type="xs:date" minOccurs="0"
maxOccurs="1"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="Cdata">
    <xs:simpleContent>
        <xs:extension base="xs:string"/>
    </xs:simpleContent>
</xs:complexType>

<xs:simpleType name="ReportType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="WAS_SCAN_REPORT"/>
        <xs:enumeration value="WAS_WEBAPP_REPORT"/>
        <xs:enumeration value="WAS_SCORECARD_REPORT"/>
        <xs:enumeration value="WAS_CATALOG_REPORT"/>
        <xs:enumeration value="DATA_LIST_REPORT"/>
    </xs:restriction>
</xs:simpleType>

<xs:complexType name="TagList">
    <xs:all>
        <xs:element name="count" type="xs:int" minOccurs="0"/>
        <xs:element name="list" minOccurs="0" >
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="Tag" type="Tag" minOccurs="0"
maxOccurs="unbounded"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="set" minOccurs="0" >
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="Tag" type="Tag"
maxOccurs="unbounded"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="add" minOccurs="0" >

```

```

        <xs:complexType>
            <xs:sequence>
                <xs:element name="Tag" type="Tag"
maxOccurs="unbounded" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="remove" minOccurs="0" >
        <xs:complexType>
            <xs:sequence>
                <xs:element name="Tag" type="Tag"
maxOccurs="unbounded" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="update" minOccurs="0" >
        <xs:complexType>
            <xs:sequence>
                <xs:element name="Tag" type="Tag"
maxOccurs="unbounded" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:all>
</xs:complexType>

<xs:complexType name="Tag">
    <xs:all>
        <xs:element name="id" type="xs:long" />
        <xs:element name="name" type="Cdata" minOccurs="0" />
    </xs:all>
</xs:complexType>

<xs:complexType name="User">
    <xs:all>
        <xs:element name="id" type="xs:long" minOccurs="0" />
        <xs:element name="username" type="xs:string" minOccurs="0" />
        <xs:element name="firstName" type="Cdata" minOccurs="0" />
        <xs:element name="lastName" type="Cdata" minOccurs="0" />
    </xs:all>
</xs:complexType>

<!-- Catalog Report -->
<xs:simpleType name="CatalogReportContent">
    <xs:restriction base="xs:string">
        <xs:enumeration value="DESCRIPTION" />
        <xs:enumeration value="SUMMARY" />
        <xs:enumeration value="GRAPHS" />
        <xs:enumeration value="RESULTS" />
    </xs:restriction>
</xs:simpleType>

```

```

        <xs:enumeration value="INDIVIDUAL_RECORDS" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="CatalogReportGraph">
    <xs:restriction base="xs:string">
        <xs:enumeration value="ENTRIES_BY_STATUS" />
        <xs:enumeration value="ENTRIES_ADDED_OVER_TIME" />
        <xs:enumeration value="OPERATING_SYSTEMS_DETECTED" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="CatalogReportGroup">
    <xs:restriction base="xs:string">
        <xs:enumeration value="STATUS" />
        <xs:enumeration value="OPERATING_SYSTEM" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="EntryStatus">
    <xs:restriction base="xs:string">
        <xs:enumeration value="NEW" />
        <xs:enumeration value="ROGUE" />
        <xs:enumeration value="APPROVED" />
        <xs:enumeration value="REJECTED" />
        <xs:enumeration value="SUBSCRIPTION" />
    </xs:restriction>
</xs:simpleType>

<xs:complexType name="CatalogReportTemplate">
    <xs:sequence>
        <xs:element name="display" minOccurs="0">
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="contents" minOccurs="0">
                        <xs:complexType>
                            <xs:sequence>
                                <xs:element name="CatalogReportContent"
type="CatalogReportContent" minOccurs="0"
maxOccurs="unbounded"></xs:element>
                            </xs:sequence>
                        </xs:complexType>
                    </xs:element>

                    <xs:element name="graphs" minOccurs="0">
                        <xs:complexType>
                            <xs:sequence>
                                <xs:element name="CatalogReportGraph"
type="CatalogReportGraph" minOccurs="0"

```

```

maxOccurs="unbounded"></xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

  <xs:element name="groups" minOccurs="0">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="CatalogReportGroup"
type="CatalogReportGroup" minOccurs="0"
maxOccurs="unbounded"></xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
  <xs:element name="filters" minOccurs="0" maxOccurs="1">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="status" minOccurs="0">
          <xs:complexType>
            <xs:sequence>
              <xs:element name="EntryStatus"
type="EntryStatus" minOccurs="0" maxOccurs="unbounded"></xs:element>
                </xs:sequence>
              </xs:complexType>
            </xs:element>
          <xs:element name="scanDate" type="DatetimeRange"
minOccurs="0" maxOccurs="1"/>
            <xs:element name="url" type="Cdata" minOccurs="0"
maxOccurs="1"/>
            <xs:element name="os" type="Cdata" minOccurs="0"
maxOccurs="1" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<!-- Scan Report -->
<xs:simpleType name="ScanFindingStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NEW" />
    <xs:enumeration value="ACTIVE" />
    <xs:enumeration value="REOPENED" />
    <xs:enumeration value="FIXED" />
  </xs:restriction>
</xs:simpleType>

```

```

<xs:complexType name="SearchList">
  <xs:sequence>
    <xs:element name="id" type="xs:long" minOccurs="1"
maxOccurs="1" />
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="ScanReportContent">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DESCRIPTION" />
    <xs:enumeration value="SUMMARY" />
    <xs:enumeration value="GRAPHS" />
    <xs:enumeration value="RESULTS" />
    <xs:enumeration value="INDIVIDUAL_RECORDS" />
    <xs:enumeration value="RECORD_DETAILS" />
    <xs:enumeration value="ALL_RESULTS" />
    <xs:enumeration value="APPENDIX" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ScanReportGraph">
  <xs:restriction base="xs:string">
    <xs:enumeration value="VULNERABILITIES_BY_SEVERITY" />
    <xs:enumeration value="VULNERABILITIES_BY_STATUS" />
    <xs:enumeration value="VULNERABILITIES_BY_GROUP" />
    <xs:enumeration value="VULNERABILITIES_BY_OWASP" />
    <xs:enumeration value="VULNERABILITIES_BY_WASC" />
    <xs:enumeration value="SENSITIVE_CONTENTS_BY_GROUP" />
    <xs:enumeration value="MOST_VULNERABLE_URLS" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ScanReportGroup">
  <xs:restriction base="xs:string">
    <xs:enumeration value="URL" />
    <xs:enumeration value="GROUP" />
    <xs:enumeration value="OWASP" />
    <xs:enumeration value="WASC" />
    <xs:enumeration value="STATUS" />
    <xs:enumeration value="CATEGORY" />
    <xs:enumeration value="QID" />
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="ScanReportTemplate">
  <xs:sequence>
    <xs:element name="display" minOccurs="0">
      <xs:complexType>

```

```

<xs:sequence>
  <xs:element name="contents" minOccurs="0">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="ScanReportContent"
type="ScanReportContent" minOccurs="0"
maxOccurs="unbounded"></xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

  <xs:element name="graphs" minOccurs="0">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="ScanReportGraph"
type="ScanReportGraph" minOccurs="0" maxOccurs="unbounded"></xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

  <xs:element name="groups" minOccurs="0">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="ScanReportGroup"
type="ScanReportGroup" minOccurs="0" maxOccurs="unbounded"></xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

  <xs:element name="options" minOccurs="0"
maxOccurs="1">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="rawLevels"
type="xs:boolean" minOccurs="0"></xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="filters" minOccurs="0">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="includedSearchLists"
minOccurs="0">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="SearchList"

```



```

<xs:complexType name="WebApp">
  <xs:sequence>
    <xs:element name="id" type="xs:long"/>
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="WebAppReportContent">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DESCRIPTION" />
    <xs:enumeration value="SUMMARY" />
    <xs:enumeration value="GRAPHS" />
    <xs:enumeration value="RESULTS" />
    <xs:enumeration value="INDIVIDUAL_RECORDS" />
    <xs:enumeration value="RECORD_DETAILS" />
    <xs:enumeration value="ALL_RESULTS" />
    <xs:enumeration value="APPENDIX" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="WebAppReportGraph">
  <xs:restriction base="xs:string">
    <xs:enumeration value="VULNERABILITIES_BY_SEVERITY" />
    <xs:enumeration value="VULNERABILITIES_BY_STATUS" />
    <xs:enumeration value="VULNERABILITIES_BY_GROUP" />
    <xs:enumeration value="VULNERABILITIES_BY_OWASP" />
    <xs:enumeration value="VULNERABILITIES_BY_WASC" />
    <xs:enumeration value="SENSITIVE_CONTENTS_BY_GROUP" />
    <xs:enumeration value="MOST_VULNERABLE_WEB_APPLICATIONS" />
    <xs:enumeration value="MOST_VULNERABLE_URLS" />
    <xs:enumeration value="OPERATING_SYSTEMS_DETECTED" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="WebAppReportGroup">
  <xs:restriction base="xs:string">
    <xs:enumeration value="WEBAPP" />
    <xs:enumeration value="URL" />
    <xs:enumeration value="GROUP" />
    <xs:enumeration value="OWASP" />
    <xs:enumeration value="WASC" />
    <xs:enumeration value="STATUS" />
    <xs:enumeration value="CATEGORY" />
    <xs:enumeration value="QID" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="WebAppFindingStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NEW" />
  </xs:restriction>
</xs:simpleType>

```



```

        <xs:enumeration value="ACTIVE" />
        <xs:enumeration value="REOPENED" />
        <xs:enumeration value="FIXED" />
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="IgnoredReason">
    <xs:restriction base="xs:string">
        <xs:enumeration value="FALSE_POSITIVE"/>
        <xs:enumeration value="RISK_ACCEPTED"/>
        <xs:enumeration value="NOT_APPLICABLE"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="RemediationShowOption">
    <xs:restriction base="xs:string">
        <xs:enumeration value="SHOW_NONE"/>
        <xs:enumeration value="SHOW_ONLY"/>
        <xs:enumeration value="SHOW_BOTH"/>
    </xs:restriction>
</xs:simpleType>

<xs:complexType name="WebAppReportTemplate">
    <xs:sequence>
        <xs:element name="display" minOccurs="0">
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="contents" minOccurs="0">
                        <xs:complexType>
                            <xs:sequence>
                                <xs:element name="WebAppReportContent"
type="WebAppReportContent" minOccurs="0"
maxOccurs="unbounded"/></xs:element>
                            </xs:sequence>
                        </xs:complexType>
                    </xs:element>

                    <xs:element name="graphs" minOccurs="0">
                        <xs:complexType>
                            <xs:sequence>
                                <xs:element name="WebAppReportGraph"
type="WebAppReportGraph" minOccurs="0"
maxOccurs="unbounded"/></xs:element>
                            </xs:sequence>
                        </xs:complexType>
                    </xs:element>

                    <xs:element name="groups" minOccurs="0">
                        <xs:complexType>

```

```

        <xs:sequence>
            <xs:element name="WebAppReportGroup"
type="WebAppReportGroup" minOccurs="0"
maxOccurs="unbounded"></xs:element>
        </xs:sequence>
    </xs:complexType>
</xs:element>

    <xs:element name="options" minOccurs="0">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="rawLevels"
type="xs:boolean" minOccurs="0"></xs:element>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="filters" minOccurs="0" maxOccurs="1">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="includedSearchLists"
minOccurs="0">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="SearchList"
type="SearchList" minOccurs="0" maxOccurs="unbounded"></xs:element>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="excludedSearchLists"
minOccurs="0">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="SearchList"
type="SearchList" minOccurs="0" maxOccurs="unbounded"></xs:element>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="url" type="Cdata" minOccurs="0"
maxOccurs="1"/>
            <xs:element name="status" minOccurs="0">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="WebAppFindingStatus"
type="WebAppFindingStatus" minOccurs="0"
maxOccurs="unbounded"></xs:element>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```



```

<xs:simpleType name="ScorecardReportContent">
  <xs:restriction base="xs:string">
    <xs:enumeration value="DESCRIPTION" />
    <xs:enumeration value="SUMMARY" />
    <xs:enumeration value="GRAPHS" />
    <xs:enumeration value="RESULTS" />
    <xs:enumeration value="INDIVIDUAL_RECORDS" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ScorecardReportGraph">
  <xs:restriction base="xs:string">
    <xs:enumeration value="VULNERABILITIES_BY_SEVERITY" />
    <xs:enumeration value="VULNERABILITIES_BY_GROUP" />
    <xs:enumeration value="VULNERABILITIES_BY_OWASP" />
    <xs:enumeration value="VULNERABILITIES_BY_WASC" />
    <xs:enumeration value="SENSITIVE_CONTENTS_BY_GROUP" />
    <xs:enumeration value="MOST_VULNERABLE_WEB_APPLICATIONS" />
    <xs:enumeration value="OPERATING_SYSTEMS_DETECTED" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="ScorecardReportGroup">
  <xs:restriction base="xs:string">
    <xs:enumeration value="GROUP" />
    <xs:enumeration value="OWASP" />
    <xs:enumeration value="WASC" />
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="ScorecardReportTemplate">
  <xs:sequence>
    <xs:element name="display" minOccurs="0">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="contents" minOccurs="0">
            <xs:complexType>
              <xs:sequence>
                <xs:element name="ScorecardReportContent"
type="ScorecardReportContent" minOccurs="0"
maxOccurs="unbounded"></xs:element>
              </xs:sequence>
            </xs:complexType>
          </xs:element>
          <xs:element name="graphs" minOccurs="0">
            <xs:complexType>
              <xs:sequence>

```

```

        <xs:element name="ScorecardReportGraph"
type="ScorecardReportGraph" minOccurs="0"
maxOccurs="unbounded"></xs:element>
        </xs:sequence>
    </xs:complexType>
</xs:element>

    <xs:element name="groups" minOccurs="0">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="ScorecardReportGroup"
type="ScorecardReportGroup" minOccurs="0"
maxOccurs="unbounded"></xs:element>
            </xs:sequence>
        </xs:complexType>
    </xs:element>

    <xs:element name="options" minOccurs="0">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="rawLevels"
type="xs:boolean" minOccurs="0"></xs:element>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="filters" minOccurs="0">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="scanDate" type="DatetimeRange"
minOccurs="0" maxOccurs="1"/>
            <xs:element name="scanStatus"
type="WasScanConsolidatedStatus" minOccurs="0" maxOccurs="1" />
            <xs:element name="scanAuthStatus"
type="WasScanAuthStatus" minOccurs="0" maxOccurs="1" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:schema>

```