



WAS API Release Notes

Version 4.9

Qualys WAS API gives you ways to integrate your programs and API calls with Web Application Scanning (WAS). The WAS API User Guide will be updated with all the details 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

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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	Base URL
US Platform 1	https://qualysapi.qualys.com
US Platform 2	https://qualysapi.qg2.apps.qualys.com
EU Platform	https://qualysapi.qualys.eu

Finding API - Customize severity levels of findings

The Finding API (POST) now allows you to decrease or increase severity level of findings (vulnerability/sensitive content/information gathered).

Finding API

Updated XSD: finding.xsd

```
<xs:complexType name="Finding">
  <xs:all>
    <xs:element name="id" type="xs:long"/>
    <xs:element name="qid" type="xs:long" minOccurs="0"/>
    <xs:element name="name" type="Cdata" minOccurs="0"/>
    <xs:element name="type" minOccurs="0">
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="VULNERABILITY"/>
          <xs:enumeration value="SENSITIVE_CONTENT"/>
          <xs:enumeration value="INFORMATION_GATHERED"/>
        </xs:restriction>
      </xs:simpleType>
    ...
    ...
    ...
    <xs:element name="ignoredComment" type="Cdata" minOccurs="0"/>
    <!-- Following element will be available only if severity level
is edited and this will also be used for 'edit severity' operation for
providing comment -->
    <xs:element name="severityComment" type="Cdata"
minOccurs="0"/>
    <!-- Following element will be available only if severity level
is edited -->
    <xs:element name="editedSeverityUser" type="User"
minOccurs="0"/>
    <!-- Following element will be available only if severity level
is edited -->
    <xs:element name="editedSeverityDate" type="xs:dateTime"
minOccurs="0"/>
  </xs:all>
</xs:complexType>
```

Edit severity level

Edit severity for single finding.

API Request:

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

```
--data-binary @-  
"https://qualysapi.qualys.com/qps/rest/3.0/editSeverity/was/finding" <  
file.xml
```

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

Use this URL to edit severity for one or more findings. POST is required.

Edit severity for single finding

Request POST Data:

```
<ServiceRequest>  
  <data>  
    <Finding>  
      <id>647</id>  
      <severityComment>test comment api</severityComment>  
      <severity>2</severity>  
    </Finding>  
  </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/finding.xsd">  
  <responseCode>SUCCESS</responseCode>  
  <count>1</count>  
  <data>  
    <Finding>  
      <id>647</id>  
    </Finding>  
  </data>  
</ServiceResponse>
```

Edit severity for multiple findings

Request POST Data:

```
<ServiceRequest>  
  <data>  
    <Finding>  
      <severityComment>test comment api</severityComment>  
      <severity>2</severity>  
    </Finding>  
  </data>  
  <filters>  
    <Criteria field="id" operator="IN">183, 645</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/w
as/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
  <data>
    <Finding>
      <id>645</id>
    </Finding>
    <Finding>
      <id>183</id>
    </Finding>
  </data>
</ServiceResponse>
```

Restore severity level

API Request:

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

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

Use this URL to restore severity for one or more findings. POST is required.

Restore for single finding

Request POST Data:

```
<ServiceRequest>
  <data>
    <Finding>
      <id>6034</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="https://qualysapi.qualys.com/qps/xsd/3.0/w
as/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <Finding>
      <id>6034</id>
    </Finding>
  </data>
</ServiceResponse>
```

Restore for multiple findings

Request POST Data:

```
<ServiceRequest>
  <filters>
    <Criteria field="id" operator="IN">183, 645</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/w
as/finding.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>2</count>
  <data>
    <Finding>
      <id>183</id>
    </Finding>
    <Finding>
      <id>645</id>
    </Finding>
  </data>
</ServiceResponse>
```

WasScanSchedule API - List scheduled Multiscans

Using the WasScanSchedule API you can now view the WAS scans scheduled for the scans that run on multiple Web Apps.

WasScanSchedule API

Updated XSD: WasScanSchedule.xsd

```
<xs:complexType name="WasScanSchedule">
  <xs:all>
    <xs:element name="id" type="xs:long" minOccurs="0"/>
    ...
    ...
    <xs:element name="multi" type="xs:boolean" minOccurs="0"/>
    ...
    ...
  </xs:all>
</xs:complexType>
```

List WAS scan schedule for the specified criteria

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/wasscanschedule" <
file.xml
```

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

Request POST Data:

```
<ServiceRequest>
  <preferences>
    <limitResults>1</limitResults>
  </preferences>
  <filters>
    <Criteria field="id" operator="EQUALS">4546</Criteria>
  </filters>
</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/qps/xsd/3.0/wa
```

```
s/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <hasMoreRecords>false</hasMoreRecords>
  <data>
    <WasScanSchedule>
      <id>4546</id>
      <name><![CDATA[Web Application Discovery Scan - 2016-07-15]]></name>
      <owner>
        <id>337014</id>
      </owner>
      <active>true</active>
      <multi>true</multi>
      <type>DISCOVERY</type>
      <target>
        <webApps>
          <list>
            <WebApp>
              <id>842422</id>
              <name><![CDATA[API testing dns 5]]></name>
              <url><![CDATA[http://test.com]]></url>
            ...
          </list>
        </webApps>
      </target>
    </WasScanSchedule>
  </data>
</ServiceResponse>
```

List WAS scan schedule for the specified webapp id

API Request:

```
curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "GET"
"https://qualysapi.qualys.com/qps/rest/3.0/search/was/wasscanschedule/4546" <
```

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/qps/xsd/3.0/wa
s/wasscanschedule.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WasScanSchedule>
      <id>4546</id>
      <name><![CDATA[Web Application Discovery Scan - 2016-07-15]]></name>
      <owner>
        <id>337014</id>
        <username>was_test</username>
        <firstName><![CDATA[first]]></firstName>
        <lastName><![CDATA[last]]></lastName>
```

```
    </owner>
    <active>true</active>
    <multi>true</multi>
    <type>DISCOVERY</type>
    <target>
      <webApps>
        <list>
          ...
        </list>
      </webApps>
    </target>
  </ServiceResponse>
```

Web Application API - Exclude links from crawling

You can now specify a regular expression to identify the logout links you want to exclude from scanning.

Updated XSD: webapp.xsd

```
<xs:complexType name="WebApp">
  <xs:all>
    <xs:element name="id" type="xs:long" minOccurs="0"/>
    <xs:element name="name" type="Cdata" minOccurs="0"/>
    ...
    ...
    <xs:element name="urlWhitelist" type="UrlEntryList"
      minOccurs="0"/>
    <xs:element name="postDataBlacklist" type="UrlEntryList"
      minOccurs="0"/>
    <xs:element name="logoutRegexList" type="UrlEntryList"
      minOccurs="0"/>
    <xs:element name="authRecords" type="WebAppAuthRecordList"
      minOccurs="0"/>
    ...
    ...
    ...
  </xs:all>
</xs:complexType>
```

WebApp Get API

The WebApp Get API returns the logout regular expression details when defined for the web application.

Example: Get details for the webapp with logout regular expression list.

API Request:

```
curl -u "USERNAME:PASSWORD" -X GET -H 'Content-type: text/xml'
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/webapp/842222"
```

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/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
```

```

<id>842222</id>
<name><![CDATA[My Web Application]]></name>
<url><![CDATA[http://mywebapp.com]]></url>
<owner>
  <id>337014</id>
  <username>user_john</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</owner>
<scope>ALL</scope>
<attributes>
  <count>0</count>
</attributes>
<defaultScanner>
  <type>EXTERNAL</type>
</defaultScanner>
<scannerLocked>false</scannerLocked>
<urlBlacklist>
  <count>0</count>
</urlBlacklist>
<urlWhitelist>
  <count>0</count>
</urlWhitelist>
<postDataBlacklist>
  <count>0</count>
</postDataBlacklist>
<logoutRegexList>
  <count>1</count>
  <list>
    <UrlEntry regex="true"><![CDATA[leave]]></UrlEntry>
  </list>
</logoutRegexList>
<authRecords>
  <count>0</count>
</authRecords>
....
</WebApp>
</data>
</ServiceResponse>

```

Webapp Create/Update API

You can define the links to be excluded from scanning by specifying the logout regular expression details while creating or updating the web application.

Example: Create a webapp with 'leave' as logout regular expression.

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/webapp" < file.xml
```

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

Request POST data:

```
<ServiceRequest>
  <data>
    <WebApp>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <scope>ALL</scope>
      <defaultScanner>
        <type>EXTERNAL</type>
      </defaultScanner>
      <scannerLocked>>false</scannerLocked>
      <useRobots>IGNORE</useRobots>
      <useSitemap>>false</useSitemap>
      <malwareMonitoring>>false</malwareMonitoring>
      <logoutRegexList>
        <set>
          <UrlEntry regex="true"><![CDATA[leave]]></UrlEntry>
        </set>
      </logoutRegexList>
    </WebApp>
  </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/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>842422</id>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <owner>
        <id>337014</id>
        <username>user_john</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
      </owner>
    </WebApp>
  </data>
</ServiceResponse>
```

```

</owner>
<scope>ALL</scope>
<attributes>
  <count>0</count>
</attributes>
<defaultScanner>
  <type>EXTERNAL</type>
</defaultScanner>
<scannerLocked>>false</scannerLocked>
<urlBlacklist>
  <count>0</count>
</urlBlacklist>
<urlWhitelist>
  <count>0</count>
</urlWhitelist>
<postDataBlacklist>
  <count>0</count>
</postDataBlacklist>
<logoutRegexList>
  <count>1</count>
  <list>
    <UrlEntry regex="true"><![CDATA[leave]]></UrlEntry>
  </list>
</logoutRegexList>
<authRecords>
  <count>0</count>
</authRecords>
<dnsOverrides>
  <count>0</count>
</dnsOverrides>
<useRobots>IGNORE</useRobots>
<useSitemap>>false</useSitemap>
<malwareMonitoring>>false</malwareMonitoring>
<tags>
  <count>0</count>
</tags>
<comments>
  <count>0</count>
</comments>
<isScheduled>>false</isScheduled>
<createdBy>
  <id>337014</id>
  <username>user_john</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</createdBy>
<createdDate>2016-07-04T16:07:25Z</createdDate>
<updatedBy>
  <id>337014</id>

```

```
    <username>user_john</username>
    <firstName><![CDATA[John]]></firstName>
    <lastName><![CDATA[Doe]]></lastName>
  </updatedBy>
  <updatedAt>2016-07-04T16:07:25Z</updatedAt>
  <config/>
</WebApp>
</data>
</ServiceResponse>
```

Web Application API - Set default authentication record

Configure the default authentication record for web applications.

Updated XSD: webapp.xsd

```
<xs:complexType name="WebApp">
  <xs:all>
    <xs:element name="id" type="xs:long" minOccurs="0"/>
    <xs:element name="name" type="Cdata" minOccurs="0"/>
    ...
    ...
    ...
  </xs:all>
</xs:complexType>
<xs:complexType name="WebAppConfig">
  <xs:sequence>
    <xs:choice>
      <xs:element name="cancelScansAfterNHours" type="xs:int"
        minOccurs="0"/>
      <xs:element name="cancelScansAt" type="xs:string"
        minOccurs="0"/>
      <xs:element name="defaultAuthRecord" type="WebAppAuthRecord"
        minOccurs="0"/>
    </xs:choice>
  </xs:sequence>
</xs:complexType>
...
...
...
</xs:all>
</xs:complexType>
</xs:schema>
```

WebApp Get API

The WebApp Get API returns the default authentication record details when defined for the web application.

Example: View the default authentication record details for the web application with ID #53040.

API Request:

```
curl -u "USERNAME:PASSWORD" -X GET -H 'Content-type: text/xml'
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/webapp/53040"
```

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/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>53040</id>
      <name><![CDATA[WASUI-5597]]></name>
      ...
      <config>
        <defaultAuthRecord>
          <id>9133</id>
          <name>
            <![CDATA[WASUI-6453]]>
          </name>
        </defaultAuthRecord>
      </config>
    </WebApp>
  </data>
</ServiceResponse>
```

Create/Update WebApp API

You can now configure the default authentication record while creating or updating the web application.

Example 1: Create a web application with default authentication record ID #9133.

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/webapp" < file.xml
```

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

Request POST data:

```
<ServiceRequest>
  <data>
    <WebApp>
      <name>
        <![CDATA[Create webapp with default auth record]]>
      </name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <scope>ALL</scope>
      <scannerLocked>false</scannerLocked>
```

```

        <useRobots>IGNORE</useRobots>
        <useSitemap>false</useSitemap>
        <malwareMonitoring>false</malwareMonitoring>
        <config>
            <defaultAuthRecord>
                <id>9133</id>
            </defaultAuthRecord>
        </config>
    </WebApp>
</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/webapp.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WebApp>
            <id>53040</id>
            <name>
                <![CDATA[Create webapp with default auth record]]>
            </name>
            ...
            <config>
                <defaultAuthRecord>
                    <id>9133</id>
                    <name>
                        <![CDATA[WASUI-9133]]>
                    </name>
                </defaultAuthRecord>
            </config>
        </WebApp>
    </data>
</ServiceResponse>

```

Example 2: Update the default authentication record for the web application with ID 33831.

API Request:

```

curl -u "USERNAME:PASSWORD" -H "content-type: text/xml" -X "POST"
--data-binary @-
"https://qualysapi.qualys.com/qps/rest/3.0/update/was/webapp/33831" <
file.xml

```

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

Request POST data:

```
<ServiceRequest>
  <data>
    <WebApp>
      <config>
        <defaultAuthRecord>
          <id>9133</id>
        </defaultAuthRecord>
      </config>
    </WebApp>
  </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/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>33831</id>
    </WebApp>
  </data>
</ServiceResponse>
```