



WAS API Release Notes

Version 5.10

Qualys WAS API gives you ways to integrate your programs and API calls with Web Application Scanning (WAS). For WAS API 4.15 we've made improvements to the Web Application API. 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

[WebApp API - Selenium Crawl Scripts Supported](#)

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

WebApp API - Selenium Crawl Scripts Supported

The WAS Web Application API now lets you add, update or remove selenium crawl scripts through API. If you have added a selenium crawl script to a web application, you could also view the selenium crawl script or download the script file.

Updated XSD: WebApp.xsd (Added CrawlingScriptList element)

```
<xs:schema
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">

  .....
  <!-- DATA -->
  <xs:complexType name="WebApp">
    <xs:all>
      .....
      <xs:element name="config" type="WebAppConfig" minOccurs="0"/>
      <xs:element name="crawlingScripts" type="CrawlingScriptList"
        minOccurs="0"/>
    </xs:all>
  </xs:complexType>

  .....
    <xs:element name="occurrenceCount" type="xs:long" minOccurs="0"/>
  </xs:all>
</xs:complexType>
<xs:complexType name="CrawlingScriptList">
  <xs:all>
    <xs:element name="count" type="xs:int" minOccurs="0"/>
    <xs:element name="list" minOccurs="0" >
      <xs:complexType>
        <xs:sequence>
          <xs:element name="SeleniumScript"
type="SeleniumScript" minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="set" minOccurs="0" >
      <xs:complexType>
        <xs:sequence>
          <xs:element name="SeleniumScript"
type="SeleniumScript" maxOccurs="unbounded"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="add" minOccurs="0" >
      <xs:complexType>
```

```

        <xs:sequence>
            <xs:element name="SeleniumScript"
type="SeleniumScript" maxOccurs="unbounded"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="remove" minOccurs="0" >
    <xs:complexType>
        <xs:sequence>
            <xs:element name="SeleniumScript"
type="SeleniumScript" maxOccurs="unbounded"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="update" minOccurs="0" >
    <xs:complexType>
        <xs:sequence>
            <xs:element name="SeleniumScript"
type="SeleniumScript" maxOccurs="unbounded"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
</xs:all>
</xs:complexType>
<xs:complexType name="SeleniumScript">
    <xs:all>
        <xs:element name="id" type="xs:long" minOccurs="0"/>
        <xs:element name="name" type="Cdata" minOccurs="0"/>
        <xs:element name="data" type="Cdata" minOccurs="0"/>
        <xs:element name="regex" type="Cdata" minOccurs="0"/>
        <xs:element name="requiresAuthentication" type="xs:boolean"
minOccurs="0"/>
        <xs:element name="startingUrl" type="Url" minOccurs="0"/>
        <xs:element name="startingUrlRegex" type="xs:boolean"
minOccurs="0"/>
    </xs:all>
</xs:complexType>
</xs:schema>

```

Updated XSD: was_v3.0.xsd (Changed SeleniumScript definition and added CrawlingScriptList in WebApp)

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

```

<schema ...
.....
<!-- WEB APPLICATION -->
<complexType name="WebApp">
    <sequence>

```

```

.....
    <element name="config" type="Q1:WebAppConfig"
      minOccurs="0"/>
    <element name="crawlingScripts" type="qcommon:QList"
      minOccurs="0"/>
  </sequence>
</complexType>

<complexType name="SeleniumScript">
  <sequence>
    <element name="id" type="long" minOccurs="0"/>
    <element name="name" type="qcommon:Cdata" minOccurs="0"/>
    <element name="data" type="qcommon:Cdata" minOccurs="0"/>
    <element name="regex" type="qcommon:Cdata" minOccurs="0"/>
    <element name="requiresAuthentication" type="boolean"
minOccurs="0"/>
    <element name="startingUrl" type="Q1:Url" minOccurs="0"/>
    <element name="startingUrlRegex" type="boolean" minOccurs="0"/>
  </sequence>
</complexType>
.....
</schema>

```

Get details of a Web Application (GET)

Example: Now returns details of the selenium crawl script along with other details for the web application.

API Request:

```

curl -n -u "USERNAME:PASSWORD"
"https://qualysapi.qualys.com/qps/rest/3.0/get/was/webapp/937657"

```

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/rest/xsd/3
.0/was/webapp.xsd">
  <responseCode>SUCCESS</responseCode>
  <count>1</count>
  <data>
    <WebApp>
      <id>937657</id>
      <name><![CDATA[My Web Application]]></name>
      <url><![CDATA[http://mywebapp.com]]></url>
      <owner>
        <id>337014</id>
        <username>john_doe</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>0</count>
    </logoutRegexList>
    <authRecords>
        <count>0</count>
    </authRecords>
    <dnsOverrides>
        <count>0</count>
    </dnsOverrides>
    <useRobots>IGNORE</useRobots>
    <useSitemap>>false</useSitemap>
    <malwareMonitoring>>false</malwareMonitoring>
    <malwareNotification>>false</malwareNotification>
    <tags>
        <count>0</count>
    </tags>
    <comments>
        <count>0</count>
    </comments>
    <isScheduled>>false</isScheduled>
    <createdBy>
        <id>337014</id>
        <username>john_doe</username>
        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
    </createdBy>
    <createdDate>2017-02-06T10:54:00Z</createdDate>
    <updatedBy>
        <id>337014</id>
        <username>john_doe</username>

```

```

        <firstName><![CDATA[John]]></firstName>
        <lastName><![CDATA[Doe]]></lastName>
    </updatedBy>
    <updatedAt>2017-02-06T10:54:00Z</updatedAt>
    <config/>
    <crawlerScripts>
        <count>1</count>
        <list>
            <SeleniumScript>
                <id>2500</id>
                <name><![CDATA[TestSeleniumScript]]>
                </name>
                <data>
                    <![CDATA[
                        <?xml version="1.0" encoding="UTF-8"?>
                        <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
                        <html xmlns="http://www.w3.org/1999/xhtml"
                            xml:lang="en" lang="en">
                            <head profile="http://selenium-
ide.openqa.org/profiles/test-case">
                                <meta http-equiv="Content-Type"
content="text/html; charset=UTF-8" />
                                <link rel="selenium.base"
href="http://10.10.26.238" />
                                <title>New Test</title>
                            </head>
                            <body>
                                <table cellpadding="1" cellspacing="1"
border="1">
                                    <thead>
                                        <tr>
                                            <td rowspan="1"
colspan="3">New Test</td>
                                        </tr>
                                    </thead>
                                    <tbody>
                                        <tr>
                                            <td>open</td>
                                            <td>http://10.10.26.238/</td>
                                            <td></td>
                                        </tr>
                                        <tr>
                                            <td>type</td>
                                            <td>name=login</td>
                                            <td>admin</td>
                                        </tr>
                                        <tr>
                                            <td>type</td>

```

```

        <td>name=password</td>
        <td>abc123</td>
    </tr>
    <tr>
        <td>clickAndWait</td>
        <td>name=submit</td>
        <td></td>
    </tr>
</tbody>
</table>
</body></html>]]>
</data>
<requiresAuthentication>>true
</requiresAuthentication>
<startingUrl>
    <![CDATA[http://www.mywebapp.com]]>
</startingUrl>
<startingUrlRegex>true</startingUrlRegex>
</SeleniumScript>
</list>
</crawlingScripts>
</WebApp>
</data>
</ServiceResponse>

```

Create a Web Application (POST)

Example: Let us create a new web application called “My Web Application” that has the starting URL “http://mywebapp.com” and add selenium script (TestSeleniumScript) to it.

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>
      <crawlingScripts>
        <set>
          <SeleniumScript>

```

```

        <name><![CDATA[TestSeleniumScript]]></name>
        <startingUrl><![CDATA[http://www.mywebapp.com]]>
        </startingUrl>
        <data>
            <![CDATA[<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head profile="http://selenium-ide.openqa.org/profiles/test-case">
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<link rel="selenium.base" href="http://10.10.26.238" /><title>New
Test</title></head>
<body>
<table cellpadding="1" cellspacing="1" border="1">
<thead>
<tr><td rowspan="1" colspan="3">New Test</td></tr>
</thead><tbody><tr><td>open</td><td>http://10.10.26.238/</td><td></td></tr>
<tr><td>type</td><td>name=admin</td><td>type</td><td>name=password</td><td>abc123</td></tr><tr><td>clickAndWait</td><td>name=submit</td><td></td></tr></tbody></table></body></html>]]>
            </data>

<requiresAuthentication>true</requiresAuthentication>
        <startingUrlRegex>true</startingUrlRegex>
        </SeleniumScript>
    </set>
</crawlingScripts>
</WebApp>
</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/qps/rest/xsd/3
.0/was/webapp.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WebApp>
            <id>937657</id>
            <name><![CDATA[My Web Application]]></name>
            <url><![CDATA[http://mywebapp.com]]></url>
            <owner>
                <id>337014</id>
                <username>john_doe</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>0</count>
</logoutRegexList>
<authRecords>
  <count>0</count>
</authRecords>
<dnsOverrides>
  <count>0</count>
</dnsOverrides>
<useRobots>IGNORE</useRobots>
<useSitemap>>false</useSitemap>
<malwareMonitoring>>false</malwareMonitoring>
<malwareNotification>>false</malwareNotification>
<tags>
  <count>0</count>
</tags>
<comments>
  <count>0</count>
</comments>
<isScheduled>>false</isScheduled>
<createdBy>
  <id>337014</id>
  <username>john_doe</username>
  <firstName><![CDATA[John]]></firstName>
  <lastName><![CDATA[Doe]]></lastName>
</createdBy>
<createdDate>2017-02-06T10:54:00Z</createdDate>
<updatedBy>
  <id>337014</id>
  <username>john_doe</username>
  <firstName><![CDATA[John]]></firstName>

```

```

        <lastName><![CDATA[Doe]]></lastName>
    </updatedBy>
    <updatedAtDate>2017-02-06T10:54:00Z</updatedAtDate>
    <config/>
    <爬行脚本>
        <count>1</count>
        <list>
            <SeleniumScript>
                <id>2500</id>
                <name>
                    <![CDATA[TestSeleniumScript]]>
                </name>
                <data>
                    <![CDATA[
                        <?xml version="1.0" encoding="UTF-8"?>
                        <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
                        <html xmlns="http://www.w3.org/1999/xhtml"
xml:lang="en" lang="en">
                            <head profile="http://selenium-
ide.openqa.org/profiles/test-case">
                                <meta http-equiv="Content-Type"
content="text/html; charset=UTF-8" />
                                <link rel="selenium.base"
href="http://10.10.26.238" />
                                    <title>New Test</title>
                            </head>
                            <body>
                                <table cellpadding="1" cellspacing="1"
border="1">
                                    <thead>
                                        <tr>
                                            <td rowspan="1"
colspan="3">New Test</td>
                                        </tr>
                                    </thead>
                                    <tbody>
                                        <tr>
                                            <td>open</td>
                                            <td>http://10.10.26.238/</td>
                                            <td></td>
                                        </tr>
                                        <tr>
                                            <td>type</td>
                                            <td>name=login</td>
                                            <td>admin</td>
                                        </tr>
                                        <tr>
                                            <td>type</td>

```

```

        <td>name=password</td>
        <td>abc123</td>
    </tr>
    <tr>
        <td>clickAndWait</td>
        <td>name=submit</td>
        <td></td>
    </tr>
</tbody>
</table>
</body></html>]]>
</data>
<requiresAuthentication>>true
</requiresAuthentication>
<startingUrl>
    <![CDATA[http://www.mywebapp.com]]>
</startingUrl>
<startingUrlRegex>true</startingUrlRegex>
</SeleniumScript>
</list>
</crawlingScripts>
</WebApp>
</data>
</ServiceResponse>

```

Update a Web Application (POST)

Example 1: For the web application with ID 1234, let us add a selenium script, update the name of the selenium script to My_First_Selenium_Script and then remove the second selenium script.

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/1234" <
file.xml

```

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

Request POST data:

```

<ServiceRequest>
  <data>
    <WebApp>
      <crawlingScripts>
        <update>
          <SeleniumScript>
            <id>2500</id>

```

```

        <name><![CDATA[My_First_Selenium_Script]]></name>
    </SeleniumScript>
</update>
<remove>
    <SeleniumScript>
        <id>2501</id>
    </SeleniumScript>
</remove>
<add>
    <SeleniumScript>
        <name><![CDATA[TestSeleniumipt]]></name>
        <startingUrl><![CDATA[http://www.mywebapp.com]]>
        </startingUrl>
        <data>
            <![CDATA[<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head profile="http://selenium-ide.openqa.org/profiles/test-case">
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<link rel="selenium.base" href="http://10.10.26.238" /><title>New
Test</title></head>
<body>
<table cellpadding="1" cellspacing="1" border="1">
<thead>
<tr><td rowspan="1" colspan="3">New Test</td></tr>
</thead><tbody><tr><td>open</td><td>http://10.10.26.238/</td><td></td></tr>
<tr><td>type</td><td>name=login</td><td>admin</td></tr><tr><td>type</td>
<td>name=password</td><td>abc123</td></tr><tr><td>clickAndWait</td><td>n
ame=submit</td><td></td></tr></tbody></table></body></html>]]>
        </data>
    </SeleniumScript>
</add>
</crawlingScripts>
</WebApp>
</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/qps/rest/xsd/3
.0/was/webapp.xsd">
    <responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WebApp>
            <id>1234</id>

```

```

    </WebApp>
  </data>
</ServiceResponse>

```

Example 2: For the web application with ID 1234, let us replace an existing selenium script with a new selenium script.

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/1234" <
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>
      <crawlerScripts>
        <set>
          <SeleniumScript>
            <name><![CDATA[TestSeleniumipt]]></name>
            <startingUrl><![CDATA[http://www.mywebapp.com]]></startingUrl>
            <data>
              <![CDATA[<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head profile="http://selenium-ide.openqa.org/profiles/test-case">
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<link rel="selenium.base" href="http://10.10.26.238" /><title>New
Test</title></head>
<body>
<table cellpadding="1" cellspacing="1" border="1">
<thead>
<tr><td rowspan="1" colspan="3">New Test</td></tr>
</thead><tbody><tr><td>open</td><td>http://10.10.26.238/</td><td></td></t
r><tr><td>type</td><td>name=login</td><td>admin</td></tr><tr><td>type</td
><td>name=password</td><td>abc123</td></tr><tr><td>clickAndWait</td><td>n
ame=submit</td><td></td></tr></tbody></table></body></html>]]>
            </data>
          </SeleniumScript>
        </set>

```

```
        </crawlingScripts>
    </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/w
as/webapp.xsd">
<responseCode>SUCCESS</responseCode>
    <count>1</count>
    <data>
        <WebApp>
            <id>1234</id>
        </WebApp>
    </data>
</ServiceResponse>
```

Download Selenium Script File (POST)

Example: Let us download the selenium script file associated with a web application with ID 1234.

API Request:

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

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

Request POST data:

```
<ServiceRequest>
    <filters>
        <Criteria field="id" operator="EQUALS">1234</Criteria>
        <Criteria field="crawlingScripts.id"
operator="EQUALS">2500</Criteria>
    </filters>
</ServiceRequest>
```

XML response:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
    <head profile="http://selenium-ide.openqa.org/profiles/test-case">
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"
/>
  <link rel="selenium.base" href="http://10.10.26.238" />
  <title>New Test</title>
</head>
<body>
  <table cellpadding="1" cellspacing="1" border="1">
    <thead>
      <tr>
        <td rowspan="1" colspan="3">New Test</td>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>open</td>
        <td>http://10.10.26.238/</td>
        <td/>
      </tr>
      <tr>
        <td>type</td>
        <td>name=login</td>
        <td>admin</td>
      </tr>
      <tr>
        <td>type</td>
        <td>name=password</td>
        <td>abc123</td>
      </tr>
      <tr>
        <td>clickAndWait</td>
        <td>name=submit</td>
        <td/>
      </tr>
    </tbody>
  </table>
</body>
</html>
```