



SPAMCHECK-SERVICES.COM API - TECHNICAL DESCRIPTION

1. CHECK method – checks if a message is spam without providing details on tests not passed:

INPUT parameters:

1) Message string: the email message string to be spam checked (in the example below “test message”)

OUTPUT parameters:

- 1) Response code: 200 means operation was successful
- 2) SpamdResult-> IsSpam : Boolean indicator to show if the message is considered spam (in our example the message is spam because spam score exceeds threshold score)
- 3) SpamdResult -> SpamScore: Value indicating the total spam score of the message
- 4) SpamdResult -> ThresholdScore: Value to indicate the score starting with a message is considered spam. Messages with SpamdResult -> SpamScore > SpamdResult -> ThresholdScore are considered spam and usually are blocked by mail servers.

SOAP Request

```
<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header/>
  <S:Body>
    <ns2:Check xmlns:ns2="http://com.smartsoft.spamcheckws/">
      <arg0>test message </arg0>
    </ns2:Check>
  </S:Body>
</S:Envelope>
```

SOAP Response

```
<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:CheckResponse xmlns:ns2="http://com.smartsoft.spamcheckws/">
      <return>
        <ResponseCode>200</ResponseCode>
        <SpamdResult>
          <IsSpam>true</IsSpam>
          <SpamScore>7.9</SpamScore>
          <ThresholdScore>5.0</ThresholdScore>
        </SpamdResult>
      </return>
    </ns2:CheckResponse>
  </S:Body>
</S:Envelope>
```

2. Symbols method – checks if a message is spam providing details on which tests were not passed

INPUT PARAMETERS:

1) Email message string to be checked

OUTPUT PARAMETERS: supplementary from the CHECK method it provides an array of tests not passed (failed tests). A failed test consists in test name and test details:

testName: name of the spam assassin test (in the example below the test is called MISSING_SUBJECT and it's triggered because the email does not have Subject: header.

testDetails->areaTested: which part of the email is tested: value range includes can have values as subject, headers, body or full

testDetails->bayesScore / netScore / bayesNetScore/ localScore: different spam scores provided by spam assassin. for e.g. in netScore additional checkings are made on the email verified like verifying if a sender is listed in a DNS blacklist on the internet

testDetails->testDescription : a user friendly description of the test performed

testDetails->id : internal ID used by our system

```
<FailedTest>
  <testDetails>
    <areaTested>header</areaTested>
    <bayesScore>0.001</bayesScore>
    <bayesnetScore>0.001</bayesnetScore>
    <description>Missing Message-Id: header</description>
    <id>724</id>
    <info>http://spamassassin.apache.org/</info>
    <localScore>0.001</localScore>
    <name>MISSING_MID</name>
    <netScore>0.001</netScore>
  </testDetails>
  <testName>MISSING_MID</testName>
</FailedTest>
<FailedTest>
  <testDetails>
    <areaTested>header</areaTested>
    <bayesScore>1.500</bayesScore>
    <bayesnetScore>1.500</bayesnetScore>
    <description>Missing Subject: header</description>
    <id>721</id>
    <info>http://spamassassin.apache.org/</info>
    <localScore>1.700</localScore>
    <name>MISSING_SUBJECT</name>
    <netScore>1.500</netScore>
  </testDetails>
  <testName>MISSING_SUBJECT</testName>
</FailedTest>
<FailedTest>
  <testDetails>
    <areaTested>headers</areaTested>
    <bayesScore>1.300</bayesScore>
    <bayesnetScore>1.300</bayesnetScore>
    <description>Message does not have headers</description>
    <id>726</id>
    <info>http://spamassassin.apache.org/</info>
    <localScore>1.300</localScore>
    <name>NO HEADERS MESSAGE</name>
```

3. Report method: provides same info as Symbols method but the results are formatted as text string in the Report xml tag.

Below example presents the result of the Report method when checking the email message string: "test message"

```
<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:ReportResponse xmlns:ns2="http://com.smartsoft.spamcheckws/">
      <return>
        <ResponseCode>200</ResponseCode>
        <SpamdResult>
          <IsSpam>true</IsSpam>
          <SpamScore>7.9</SpamScore>
          <ThresholdScore>5.0</ThresholdScore>
          <Report>Spam detection software, running on the system "vps4.spamcheck-services"
identified this incoming email as possible spam. The original message
has been attached to this so you can view it (if it isn't spam) or label
similar future email. If you have any questions, see
the administrator of that system for details.

Content preview: [...]

Content analysis details: (7.9 points, 5.0 required)

 pts rule name          description
-----
-0.0 NO_RELAYS          Informational: message was not relayed via SMTP
 1.2 MISSING_HEADERS   Missing To: header
 0.1 MISSING_MID        Missing Message-Id: header
 1.8 MISSING_SUBJECT    Missing Subject: header
 2.3 EMPTY_MESSAGE      Message appears to have no textual parts and no
                        Subject: text
 1.0 MISSING_FROM       Missing From: header
-0.0 NO_RECEIVED        Informational: message has no Received headers
 1.4 MISSING_DATE       Missing Date: header
 0.0 NO_HEADERS_MESSAGE Message appears to be missing most RFC-822 headers</Report>
        </SpamdResult>
      </return>
    </ns2:ReportResponse>
  </S:Body>
</S:Envelope>
```

4. Process method: makes an spam check analysis on the input message and updates the message with spam assassin headers

```

        <SpamScore>7.9</SpamScore>
        <ThresholdScore>5.0</ThresholdScore>
        <ProcessedMessage>Received: from localhost by vps4.spamcheck-services.com
with SpamAssassin (version 3.3.2);
Sat, 04 Feb 2012 23:59:54 +0000
X-Spam-Checker-Version: SpamAssassin 3.3.2 (2011-06-06) on
vps4.spamcheck-services.com
X-Spam-Flag: YES
X-Spam-Level: *****
X-Spam-Status: Yes, score=7.9 required=5.0 tests=EMPTY_MESSAGE,MISSING_DATE,
MISSING_FROM,MISSING_HEADERS,MISSING_MID,MISSING_SUBJECT,NO_HEADERS_MESSAGE,
NO_RECEIVED,NO_RELAYS autolearn=no version=3.3.2
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="-----=_4F2DC67A.A7AEB639"

```

This is a multi-part message in MIME format.

```

-----=_4F2DC67A.A7AEB639
Content-Type: text/plain; charset=iso-8859-1
Content-Disposition: inline
Content-Transfer-Encoding: 8bit

```

Spam detection software, running on the system "vps4.spamcheck-services.com", has identified this incoming email as possible spam. The original message has been attached to this so you can view it (if it isn't spam) or label similar future email. If you have any questions, see the administrator of that system for details.

Content preview: [...]

Content analysis details: (7.9 points, 5.0 required)

pts	rule name	description
-0.0	NO_RELAYS	Informational: message was not relayed via SMTP
1.2	MISSING_HEADERS	Missing To: header

5. Headers – same as process but returns only the modified spam assassin headers

6. ReportIfSpam – same as report but only if message is considered spam

7. ExecuteGenericCmd method- is the most powerful query method, it can be used to send any command to spam assassin server.

INPUT parameters:

- 1) Spammassassin method name: specifies what to what query the server will respond
- 2) Message string: email message on which the method applies
- 3) AddContentLengthHeader: internal parameter, must be set to true

OUTPUT parameters:

- 1) Response code: 200 means operation was successful
- 2) SpamdResult-> IsSpam : Boolean indicator to show if the message is considered spam(in our example the message is spam because spam score exceeds threshold score)
- 3) SpamdResult -> SpamScore: Value indicating the total spam score of the message
- 4) SpamdResult -> ThresholdScore: Value to indicate the score starting with a message is considered spam. Messages with SpamdResult -> SpamScore > SpamdResult -> ThresholdScore are considered spam and usually are blocked by mail servers.
- 5) **SpamdResult ->GenericMessageResponse:** the raw server response to the query method. No processing is made by our API on this server response

SOAP Request

```
<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header/>
  <S:Body>
    <ns2:ExecuteGenericCmd xmlns:ns2="http://com.smartsoft.spamcheckws/">
      <arg0>SYMBOLS</arg0>
      <arg1>test message</arg1>
      <arg2>true</arg2>
    </ns2:ExecuteGenericCmd>
  </S:Body>
</S:Envelope>
```

SOAP Response

```
<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:ExecuteGenericCmdResponse xmlns:ns2="http://com.smartsoft.spamcheckws/">
      <return>
        <ResponseCode>200</ResponseCode>
        <SpamdResult>
          <SpamScore>0.0</SpamScore>
          <ThresholdScore>0.0</ThresholdScore>
          <GenericMessageResponse>0 EX_OK SP&MD/1.1
          EMPTY_MESSAGE, MISSING_DATE, MISSING_FROM, MISSING_HEADERS, MISSING_MID, MISSING_SUBJECT, NO_HEADERS_MESSAGE, NO_RECEIVED M
          </SpamdResult>
        </return>
      </ns2:ExecuteGenericCmdResponse>
    </S:Body>
  </S:Envelope>
```

8. Additionally, the API includes several methods and it can be customized for the customer needs.

The API can also be deployed locally, into the client infrastructure. In this scenario no information leaves the client local network.

Should you have any questions please send it to office@spamcheck-services.com

