



INFUZE IIS MODULE USER GUIDE

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scientiamobile

www.scientiamobile.com
Tel +1.703.310.6650
E-mail: sales@scientiamobile.com

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WURFL InFuze Module for IIS: User Guide

This document will help you install and configure WURFL IIS on Windows Server 2003, 2008, and 2012.

WURFL IIS is an IIS ISAPI plugin that adds selected HTTP headers to every request received by IIS Server. Added headers will contain values for the WURFL Static/Virtual Capabilities selected in the configuration file related to the User Agent of the current request.

Installing the WURFL InFuze Module for IIS

WURFL IIS is distributed as a Windows installer package for 64 bit Windows versions.

Once the package is installed, go to your Server Manager -> IIS Manager, select the site you want to add WURFL IIS to -> ISAPI Filter -> Add : Filter Name : WURFL IIS, Executable :

C:\Program Files\Scientiamobile\WURFL ISAPI\wurfl-isapi.dll **Warning:** Since version 1.8.3.0: the installation of libwurfl for Windows 1.8.3.0 or greater is required and the default installation folder is C:\Program Files\Scientiamobile\WURFLisapi\ libwurfl is provided in your Customer Vault/FileX

Configuration

Once the plugin is installed, navigate to your installation folder and edit the wurfl-conf.xml configuration file to inject the headers that your web application will need.

Single site configuration example

Let's assume our IIS Server hosts a single website **www.mywebsite.com** The wurfl-conf.xml configuration file should contain a single <WurflIIS> section whose site attribute value is the regex matching the site FQN.

```
<WurflIIServer>

<WurflIIS name="default" site="www\.mywebsite\.com">

    <WurflRoot>wurfl.zip</WurflRoot>

        <!-- WURFL Updater allows seamless update of WURFL engine with new data downloaded from Scientiamobile. -->
        <!-- Updater configuration must be done after <WurflRoot>, which must be a writable path, and a wurfl.zip file must already be present in order for the updater to check the file.-->
            <!-- Put your personal updater url taken from Scientiamobile customer Vault. -->
            <!-- WURFL Updater url file type and WurflRoot must match (.zip or .xml.gz ) -->
            <!-- Valid values for the updater checking frequency (how often the updater checks for any new WURFL data file -->
                <!-- to be downloaded and used by the engine) are DAILY,WEEKLY (default value is DAILY) -->
                <!-- Updater log file (wurfl-updater-log.txt) may be found in WURFL Isapi installation folder. -->
                <!-- The folder and WURFL data file must writable by IIS -->
                <!-- <WurflUpdater frequency='DAILY'>https://data.scientiamobile.com/xxxxx/wurfl.zip</WurflUpdater> -->

                <!-- <WurflPatch>patch.xml</WurflPatch> -->
                <!-- <WurflPatch>...</WurflPatch> -->
                <!-- <WurflPatch>...</WurflPatch> -->

                <!-- WURFL Cache: one of the following-->
                <WurflCache params="100000">single_lru</WurflCache>
                <!-- <WurflCache>null</WurflCache> -->

                <!-- By default wurfl static/virtual capability names are mapped to WURFLCAP_[upper(capability name)] http header
                    hence for example static capability ux_full_desktop will be mapped to HTTP header
                    WURFLCAP_ux_full_desktop -->
                <WurflRequestCapability>ux_full_desktop</WurflRequestCapability>
                <WurflRequestCapability>is_tablet</WurflRequestCapability>
                <WurflRequestCapability>is_wireless_device</WurflRequestCapability>

                <!-- You may have a custom HTTP header name specified in the tag attribute "header" -->
                <WurflRequestCapability header="DEVICE_OPERATING_SYSTEM">device_os</WurflRequestCapability>

                <!--
```

```

<WurflRequestCapability>device_os_version</WurflRequestCapability>
<WurflRequestCapability>pointing_method</WurflRequestCapability>
<WurflRequestCapability>preferred_markup</WurflRequestCapability>
<WurflRequestCapability>resolution_height</WurflRequestCapability>
<WurflRequestCapability>resolution_width</WurflRequestCapability>
<WurflRequestCapability>xhtml_support_level</WurflRequestCapability>
<WurflRequestCapability>is_smarttv</WurflRequestCapability>
<WurflRequestCapability>can_assign_phone_number</WurflRequestCapability>
<WurflRequestCapability>brand_name</WurflRequestCapability>
<WurflRequestCapability>model_name</WurflRequestCapability>
<WurflRequestCapability>marketing_name</WurflRequestCapability>
<WurflRequestCapability>is_touchscreen</WurflRequestCapability>
-->

<!--Urls blacklist: all urls matching the following regex will be excluded from wurfl headers injection --&gt;
&lt;!-- &lt;WurflDoNotProcessUrl&gt; --&gt;

    &lt;!-- Excludes all .ico files from processing--&gt;
    &lt;!-- &lt;WurflUrl name="BlackList-Rule-1"&gt;.*\.ico&lt;/WurflUrl&gt; --&gt;

    &lt;!-- Excludes all files in "img" folder from processing--&gt;
    &lt;!-- &lt;WurflUrl name="BlackList-Rule-2"&gt;.*\imgV.*&lt;/WurflUrl&gt; --&gt;

&lt;!-- &lt;/WurflDoNotProcessUrl&gt; --&gt;

<!--Urls whitelist: all urls matching the following regex will be injected with wurfl headers --&gt;
    &lt;!-- if no WurflProcessUrl section is present default action is to inject, no need for a catchall rule --&gt;
&lt;!-- &lt;WurflProcessUrl&gt; --&gt;

    &lt;!-- Includes all .jpg files in processing--&gt;
    &lt;!-- &lt;WurflUrl name="WhiteList-Rule-2"&gt;.*\.jpg&lt;/WurflUrl&gt; --&gt;

&lt;!-- &lt;/WurflProcessUrl&gt; --&gt;

    &lt;!-- &lt;WurflLogHeaderInjection&gt;true&lt;/WurflLogHeaderInjection&gt; --&gt;
    &lt;!-- default --&gt;
    &lt;!-- &lt;WurflLogHeaderInjection&gt;false&lt;/WurflLogHeaderInjection&gt; --&gt;

&lt;/WurflIIS&gt;

&lt;/WurflIIServer&gt;
</pre>

```

You can insert as many `<WurflRequestCapability>` tags as you need in your `wurfl-conf.xml` file, with each static capability (or virtual capability) resulting in a new HTTP header. A full list of capabilities can be found [here](#).

Multiple sites configuration examples

Let's assume our IIS Server hosts two websites **www.firstwebsite.com** and **www.secondwebsite.com**. If we want to use different configurations for each website, the `wurfl-conf.xml` configuration file should contain two `<WurflIIS>` sections:

- one with site property value = `www\firstwebsite\com`
- one with site property value = `www\secondwebsite\com`

```

<WurflIIServer>

    <WurflIIS name="first" site="www\firstwebsite\com">
        <WurflRoot>wurfl.zip</WurflRoot>
        .
    </WurflIIS>

    <WurflIIS name="second" site="www\secondwebsite\com">
        <WurflRoot>wurfl.zip</WurflRoot>
        .
    </WurflIIS>
</WurflIIServer>

```

Let's assume our IIS Server hosts websites under com TLD and net TLD. If we want to use different

configurations for each TLD, the wurfl-conf.xml configuration file should contain two <WurflIIS> sections:

- one with site property value = *.com
- one with site property value = *.net

```
<WurflIIServer>
```

```
  <WurflIIS name="com" site=".*\.com">
    <WurflRoot>wurfl.zip</WurflRoot>
    .
  </WurflIIS>
</WurflIIServer>
```

If we want to use the same configurations for each TLD, the wurfl-conf.xml configuration file should contain only one <WurflIIS> section:

```
<WurflIIServer>
```

```
  <WurflIIS name="allsites" site=".*">
    <WurflRoot>wurfl.zip</WurflRoot>
    .
  </WurflIIS>
</WurflIIServer>
```

Configuration Tags details

Tag	Description	Availability
<WurflIIServer>	Aggregates the WURFL engines configurations for local IIS Server Context: root Type: mandatory	1.7.0.1
<WurflIIS>	Contains the configuration for a subset (WURFL engine) of the web sites hosted by local IIS Server Type: mandatory Context: <WurflIIServer> Attributes: name: a symbolic name for the web sites managed by the nested configuration for logging purposes site: a regex representing web site URLs managed by the nested configuration. WURFL Isapi filter will check the HTTP Request against this regex to determine which WURFL engine will manage the incoming HTTP Request.	1.7.0.1

Tag	Description	Availability
<WurflRoot>	<p>Defines the location (path) of the WURFL data file.</p> <p>Type:mandatory Context:<WurflIIS> Value:: the full path of the WURFL data file</p>	1.6.4
<WurflUpdater frequency="DAILY">	<p>Allows seamless update of the WURFL Engine with new data downloaded from Scientiamobile.</p> <p>The tag <WurflRoot> must precede it.</p> <p>Type:not mandatory Context:<WurflIIS> Value:: the data url (taken from your personal Scientiamobile Vault account, choosing between two data file types: .zip or .xml.gz) Take care that <WurflRoot> file type and <WurflUpdater> data url file type match so you may need to change the <WurflRoot> file type accordingly.</p> <p>Attributes:frequency (how often the updater checks for any new WURFL data file to be downloaded and used by the engine) whose value you can choose between DAILY and WEEKLY (default value is DAILY)</p> <p>In order to let the Updater perform its activities both the <WurflRoot> folder and file must be writable by IIS. The wurfl-updater-log.txt file in WURFL Isapi installation folder will contains details on Updater activity.</p>	1.8.3
<WurflPatch>	<p>Adds one or more custom patch files to the WURFL repository.</p> <p>Type:not mandatory Context:<WurflIIS> Value:: the full path of patch file</p>	1.6.4
<WurflEngineTarget>	<p>This configuration option is deprecated and will be removed in a future release.</p>	1.6.4

Tag	Description	Availability
<pre data-bbox="139 159 482 345"><WurflCache params="100000">single _lru<WurflCache> or <WurflCache>null<WurflCache></pre>	<p>In order to increase performance while processing real HTTP traffic, we suggest setting up an LRU cache. The LRU caching strategy will speed up lookup operations on processed User Agents by keeping them in an LRU map. By default the cache will be set to 30000 entries, which accounts for 7 to 10 MB of additional memory usage. Specific concerns regarding memory usage apart, users are advised to size their cache generously (100,000 or more) to increase performance. For more information, please see LRU Cache Mechanism.</p> <p>Type:not mandatory Context:<WurflIIS></p>	1.6.4
<pre data-bbox="139 938 466 990"><WurflRequestCapability ></pre>	<p>Defines one or more WURFL Static/Virtual Capabilities values to be injected in the Request as HTTP headers.</p> <p>Type:not mandatory Context:<WurflIIS></p>	1.6.4
<pre data-bbox="139 1176 466 1228"><WurflUserAgentPriority ></pre>	<p>This configuration option is deprecated and will be removed in a future release.</p>	1.6.4
<pre data-bbox="139 1349 466 1401"><WurflLogHeaderInjection></pre>	<p>Logs header injection activity</p> <p>Type:not mandatory Context:<WurflIIS> Value:true/false (default value is false)</p>	1.6.4
<pre data-bbox="139 1563 466 1614"><WurflDoNotProcessUrl></pre>	<p>URLs blacklist section: all URLs matching the contained regex will be excluded from wurfl headers injection.</p> <p>Context:<WurflIIS></p>	1.7.0.1
<pre data-bbox="139 1765 387 1817"><WurflProcessUrl></pre>	<p>URLs whitelist section: all URLs matching the contained regex will be injected with wurfl headers.</p> <p>Context:<WurflIIS></p>	1.7.0.1

Tag	Description	Availability
<WurflUrl>	<p>An url to match</p> <p>Context:<WurflProcessUrl> <WurflDoNotProcessUrl></p> <p>Value: the regex representing the url</p> <p>Attributes:name: a symbolic name for the URL, for logging purposes</p>	1.7.0.1

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