scientiamobile

"The first step in a great mobile experience"



WURFL INFUZE MODULE FOR HAPROXY ENTERPRISE: USER GUIDE

Support

The ScientiaMobile Enterprise Support Portal is open to all WURFL users, both commercial license holders and evaluation users. It represents the combined knowledge base for the WURFL community. Commercial licensees are invited to post questions in the forum using the account to which their licenses are associated. This may mean faster handling of those posts by ScientiaMobile's personnel.

For commercial license holders, there are tiered support levels to address a variety of business support needs. After logging into your account, commercial licensees with support options can access the Enterprise Support portal to post tickets. These tickets will receive expedited attention.

To inquire about support plans, use our License Inquiry or our General Inquiry form.

Update Notifications

If you would like to be notified of our API updates, major data updates, and other technical changes, please subscribe to our ScientiaMobile Announcements list.

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

Copyright © 2026 ScientiaMobile, all rights reserved. WURFL Cloud, WURFL OnSite, WURFL and, InFuze WURFL InSight and respective logos are trademarks of ScientiaMobile. Apache is the trademark of the Apache Software Foundation. NGINX is the trademark of Nginx Software Inc. Varnish is the trademark of Varnish Software AB

WURFL InFuze Module for HAProxy Enterprise: User Guide

This document is aimed at developers and system administrators who intend to install and configure the WURFL InFuze Module for HAProxy Enterprise on Unix, Linux, and other Unix-based systems.

Installing libwurfl

In order for the Module to work it is **ESSENTIAL** that the `libwurfl` library is installed on your system. `libwurfl` is provided in the **Downloads** section of your license in the **Customer Vault**.

If you have not already installed libwurfl, instructions can be found **here**. Changes in each release are listed in the **WURFL InFuze API Changelog**.

Installing HAProxy

WURFL device detection is included in the HAProxy source code from **release 1.7-dev6**. You are required to download and compile the HAProxy source code including WURFL device detection: please refer to the HAProxy documentation for build instructions. You will need the WURFL InFuze C API (libwurfl) installed on your system at compile time (refer to "Installing libwurfl" above). To enable WURFL device detection, you will need to add `USE_WURFL=1` to your HAProxy compile command as shown below:

```
$ make TARGET=<target> USE_WURFL=1
```

Optionally `WURFL_DEBUG=1` can be set to increase logging verbosity.

WURFL Data Snapshot

To perform lookups, you will need a copy of your WURFL data snapshot (also referred to as the `wurfl.xml`). While there is one included in the release package, it is intended to be a sample and will not contain all of your licensed capabilities. Your licensed WURFL data snapshot can be accessed by **following these directions**.

Configuration Guide

The following are supported WURFL directives (see doc/configuration.txt in your HAProxy source tree):

- wurfl-data-file
- wurfl-information-list [](list of WURFL capabilities, virtual capabilities, property names we plan to use in injected headers)
- wurfl-information-list-separator (character that will be used to separate values in a response header, ',' by default).
- wurfl-cache-size (Sets the WURFL caching strategy)
- wurfl-patch-file [](Sets the paths to custom WURFL patch files)

Sample configuration file:

```
global
wurfl-data-file /usr/share/wurfl/wurfl-eval.xml

wurfl-information-list wurfl_id model_name is_tablet

#wurfl-information-list-separator |

## LRU cache
wurfl-cache-size 100000
## no cache
#wurfl-cache-size 0

#wurfl-patch-file <paths to custom patch files>

...
frontend
bind *:8888
default_backend servers
```

There are two distinct methods available to transmit WURFL data downstream to the target application:

All data listed in wurfl-information-list

```
http-request set-header X-WURFL-All %[wurfl-get-all()]
```

A subset of data listed in wurfl-information-list

```
http-request set-header X-WURFL-Properties %[wurfl-get(wurfl_id,is_tablet)]
```

Based on the configuration above, the `X-WURFL-All` header value will result in something like

```
google_chrome_66,Chrome,false
```

(all wurfl informations configured in wurfl-information-list, in the same order as listed, separated by a comma)

whereas the `X-WURFL-Properties` header value will result in something like

```
google_chrome_66,false
```

(only wurfl_id and is_tablet informations, in the same order as listed in `wurfl-get()` call, separated by a comma)

WURFL Properties

wurfl-information-list configuration directive may include:

properties

- `wurfl_id` Contains the device ID of the matched device.
- `wurfl_root_id` Contains the device root ID of the matched device
- `wurfl_isdevroot` Tells if the matched device is a root device. Possible values are "TRUE" or "FALSE"
- `wurfl_useragent` The original user agent coming with this particular web request
- `wurfl_api_version` Contains a string representing the currently used Libwurfl API version
- `wurfl_info` A string containing information on the parsed wurfl.xml and its full path
- `wurfl_last_load_time` Contains the UNIX timestamp of the last time WURFL has been loaded successfully.
- `wurfl_normalized_useragent` The normalized user agent.
- `wurfl_useragent_priority` The user agent priority used by WURFL.

Capabilities and virtual capabilities

Refer to **WURFL capabilities** for all capabilities and virtual capabilities names.

© 2026 ScientiaMobile Inc.
All Rights Reserved.

NOTICE: All information contained herein is, and remains the property of ScientiaMobile Incorporated and its suppliers, if any. The intellectual and technical concepts contained herein are proprietary to ScientiaMobile Incorporated and its suppliers and may be covered by U.S. and Foreign Patents, patents in process, and are protected by trade secret or copyright law. Dissemination of this information or reproduction of this material is strictly forbidden unless prior written permission is obtained from ScientiaMobile Incorporated.