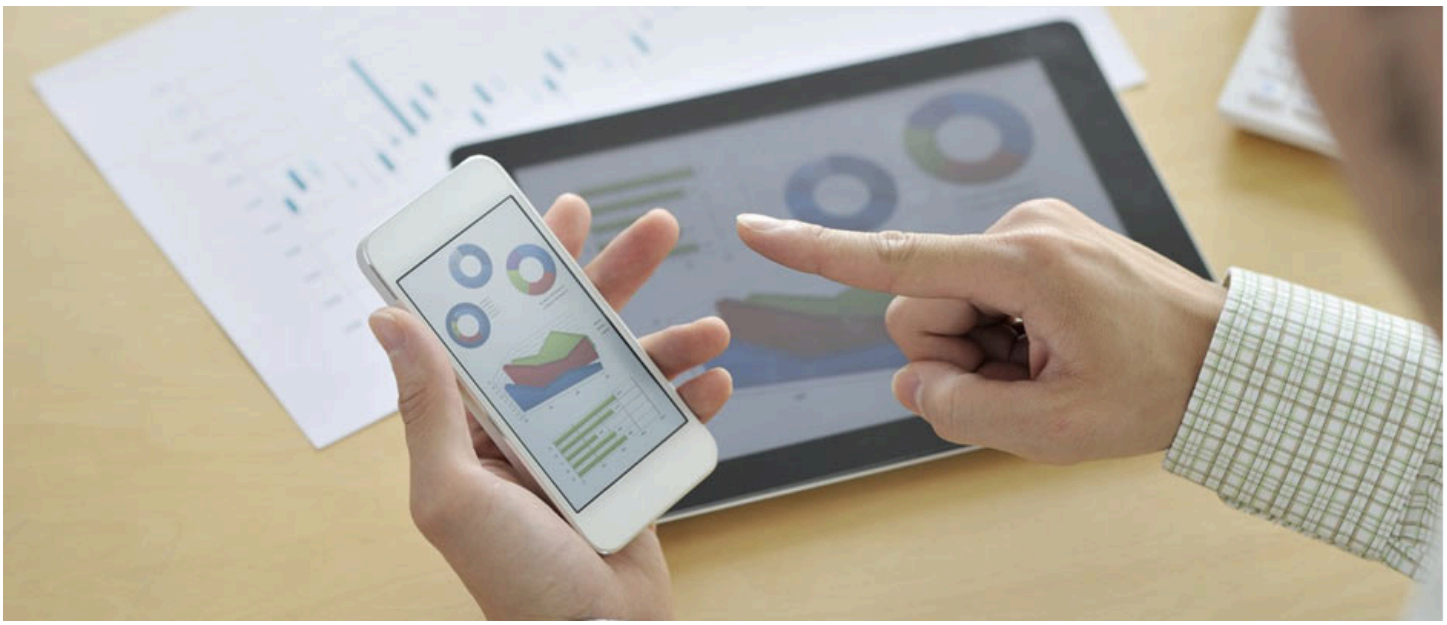
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WURFL INFUZE MODULE FOR HAPROXY: USER GUIDE

Support

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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.

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WURFL InFuze Module for HAProxy: User Guide

This document is aimed at developers and system administrators who intend to install and configure the WURFL InFuze Module for HAProxy 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.

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