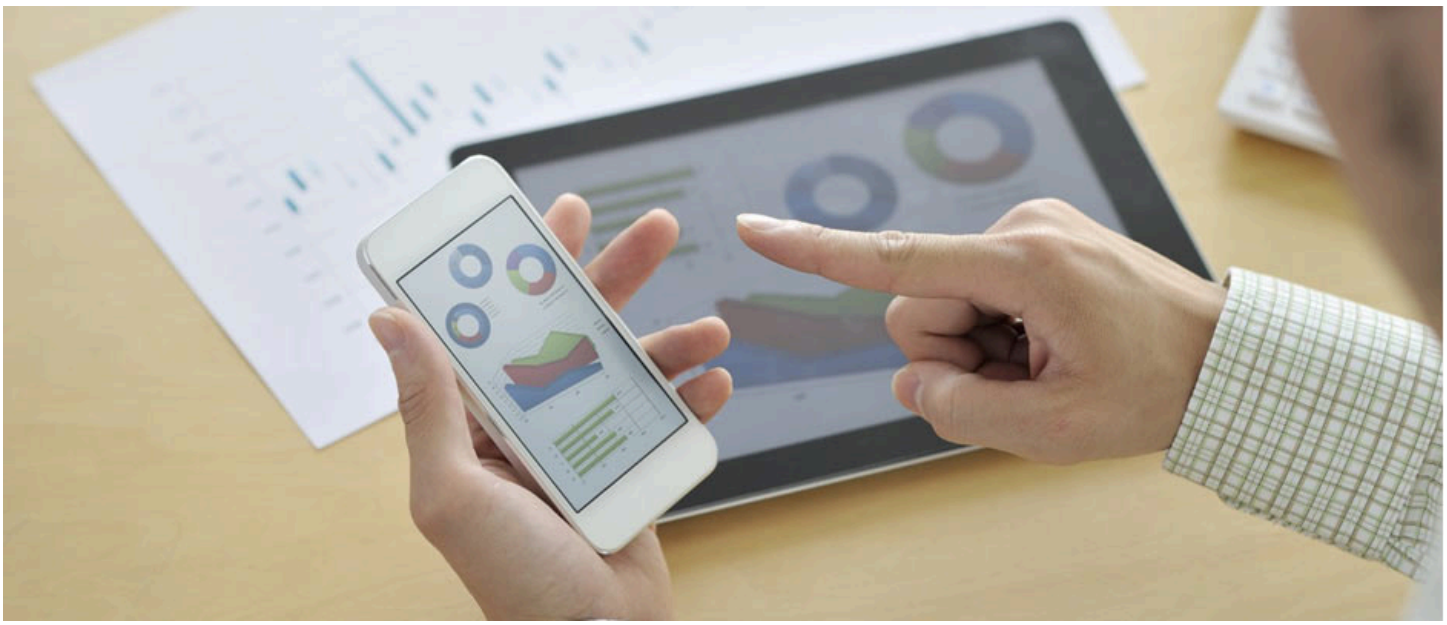
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SCIENTIAMOBILE WURFL PHP API CHANGELOG

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.

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ScientiaMobile WURFL PHP API Changelog

1.14.1.1 - Oct 30th, 2026

- Enhancements to bot detection and is_robot virtual capability computation

1.14.1.0 - Sep 29th, 2026

- Added support for
  - emerging SmartTVs, STBs and other OTT devices and platforms
  - new robots, spiders, content fetchers and crawlers via is_robot and robot_family capabilities
  - emerging custom User-Agents for Android, iOS and other platforms
- Expanded support for
  - app detection via is_app and advertised_app_name
  - User-Agent Client Hints
  - Fire OS devices
- Fixed behavior for
  - is_robot false positive

1.14.0.0 - Jun 9th, 2026

- Added support for
  - emerging custom user-agents for Android, iOS and other platforms
  - new robots, spiders, content fetchers and crawlers via is_robot and robot_family capabilities
- Expanded support for
  - User-Agent Client Hints
  - app detection via is_app and advertised_app_name
  - iOS and iPadOS versions and devices
  - SmartTVs, STBs and other OTT devices and platforms
  - Game Consoles
  - Android based Smart-TV devices
- Dropped support for
  - UcwebU3Matcher (UCWeb U3 Browser) Note: Any Android User-Agents from this browser will be handled by the AndroidMatcher and the iOS User-Agents by the AppleMatcher

1.13.6.1 - Mar 17th, 2026

- Added support for
  - Spring 2026 iPhone and iPads

1.13.6.0 - Feb 17th, 2026

- Added support for
  - emerging custom User-Agents for Android, iOS and other platforms
  - new robots, spiders, content fetchers and crawlers via is_robot and robot_family capabilities
- Expanded support for
  - User-Agent Client Hints
  - Android based Smart-TV devices
  - SmartTVs, STBs and other OTT devices and platforms
  - app detection via is_app and advertised_app_name
  - iOS and iPadOS versions and devices
- Dropped support for
  - UcwebU2Matcher (UCWeb U2 proxy Browser) Note: Android User-Agents from this browser will be handled by the AndroidMatcher

1.13.5.0 - Nov 3rd, 2025

- Added support for
  - emerging custom User-Agents for Android, iOS and other platforms
  - Vega OS platform and devices
- Expanded support for
  - SmartTVs, STBs and other OTT devices and platforms
  - app detection via is_app and advertised_app_name
  - Android based Smart-TV devices
  - User-Agent Client Hints
  - robot_family virtual capability:
    - New "AI Trainer" and "AI Assistant" categories
    - Bytespider and GPTBot User-Agents will now be classified as "AI Trainer"
    - ChatGPT-User User-Agents will now be classified as "AI Assistant"
- Fixed behavior for
  - User-Agents and HTTP Requests with invalid or missing Android versions will now return "10.0" as the default/fallback Android version. The previously returned version was "6.0".

1.13.4.2 - Oct 1st, 2025

- Fix
  - iOS and iPadOS versions and devices

1.13.4.1 - Oct 1st, 2025

- Fix

- emerging custom User-Agents for Android, iOS and other platforms

1.13.4.0 - Jun 11th, 2025

- Added support for
  - emerging custom User-Agents for Android, iOS and other platforms
  - new robots, spiders, content fetchers and crawlers
- Expanded support for
  - User-Agent Client Hints
  - iOS and iPadOS versions and devices
  - SmartTVs, STBs and other OTT devices and platforms
  - app detection via is_app and advertised_app_name
  - Chromium based browsers and web clients
- Note: VIZIO SmartCast and ViziOS User-Agents now return advertised_* virtual capability return values consistent with the platform's branding and specification. Notable updates for that platform:
  - advertised_device_os: defaults to VIZIO SmartCast
  - advertised_browser: defaults to Chromium

1.13.3.0 - Feb 18th, 2025

- Added support for
  - advertised_architecture: A new virtual capability that returns the architecture of the device based on analysis of the 'Sec-Ch-Ua-Arch' User-Agent Client Hint.
  - emerging custom User-Agents for Android, iOS and other platforms
  - new robots, spiders and crawlers
- Expanded support for
  - app detection via is_app and advertised_app_name
  - SmartTVs, STBs and other OTT devices
  - Android versions and devices
  - iOS and iPadOS versions and devices
  - User-Agent Client Hints

1.13.2.0 - Oct 2nd, 2024

- Added support for
  - emerging custom User-Agents for Android, iOS and other platforms
  - new robots, spiders and crawlers
- Expanded support for
  - app detection via is_app and advertised_app_name
  - SmartTVs, STBs and other OTT devices
  - User-Agent Client Hints

    - iOS and iPadOS versions and devices

1.13.1.0 - May 28th, 2024

- Added support for
    - emerging custom User-Agents for Android, iOS and other platforms
    - new robots, spiders and crawlers
- Expanded support for
    - app detection via is_app and advertised_app_name
    - SmartTVs, STBs and other OTT devices
    - iOS and iPadOS versions and devices
    - User-Agent Client Hints

1.13.0.1 - April 11th, 2024

- Fixed
    - Classes that implement MongoDB Persistable now declare an array return type

1.13.0.0 - Feb 28th, 2024

- Added support for
    - New robots, spiders and crawlers
    - Emerging custom User-Agents for Android, iOS and other platforms
- Expanded support for
    - SmartTVs, STBs and other OTT devices
    - User-Agent Client Hints
    - App detection via is_app and advertised_app_name
    - Digital assistant and connected speaker devices
    - Game Consoles
- Fixed behavior for
    - Spark Email Client (iOS/macOS) now defaults to a desktop detection

1.12.11.1 - Dec 6th, 2023

- Updated to be compatible with recent versions of PSR libraries

1.12.11.0 - Oct 23rd, 2023

- Added support for

    - new SmartTVs, STBs and other OTT devices
    - new robots, spiders and crawlers
- Expanded support for
    - custom User-Agents for Android, iOS and other platforms
    - User-Agent Client Hints
    - app detection via is_app and advertised_app_name
    - iOS and iPadOS versions and devices
    - Tizen based devices
- Fixed behavior for
    - Firefox on Android will now use "6.0" as the default/fallback OS version in cases where an Android version is absent

1.12.10.1 - Sept 1st, 2023

- Fixed "Fatal error: Uncaught TypeError: count()" error for certain SmartTV requests

1.12.10.0 - June 27th, 2023

- Added support for
    - new robots, spiders and crawlers
    - new SmartTVs, STBs and other OTT devices
- Expanded support for
    - custom User-Agents for Android, iOS and other platforms
    - app detection via is_app and advertised_app_name
    - Chromium based browsers and web clients
- Fixed behavior for
    - User-Agents and HTTP Requests with invalid or missing Android versions will now return "6.0" as the default/fallback Android version. The previously returned version was "4.0".
- Note: We periodically update the definition of what we consider to be a smartphone. These changes affect the is_smartphone and form_factor capabilities. This version of the WURFL API makes the following change:
    - Minimum OS version requirements increased to iOS 12, Android 8.0

1.12.9.0 - March 14th, 2023

- Added support for
    - new robots, spiders and crawlers
    - custom User-Agents for Android, iOS and other platforms
- Expanded support for
    - SmartTVs, STBs and other OTT devices
    - User-Agent Client Hints
    - App detection via is_app and advertised_app_name

    - iOS and iPadOS versions and devices
    - Android devices

1.12.8.0 - Nov 30th, 2022

- Added support for
    - new robots, spiders and crawlers
    - custom User-Agents for Android, iOS and other platforms
- Expanded support for
    - Android devices
    - SmartTVs, STBs and other OTT devices
    - Chromium based browsers and web clients
    - App detection via is_app and advertised_app_name
    - iOS and iPadOS versions and devices
    - User-Agent Client Hints

1.12.7.0 - Sept 21th, 2022

- Potentially breaking change: move to Common Container Interface (PHP FIG PSR-11) from the deprecated container-interop interface
- Added support for
    - new robots, spiders and crawlers
    - new email clients
- Expanded support for
    - SmartTVs, STBs and other OTT devices
    - Digital assistant and connected speaker devices
    - Fire OS devices
    - App detection via is_app and advertised_app_name
    - Mobile and desktop applications
    - iOS and iPadOS versions and devices

1.12.6.0 - May 31, 2022

- Added support for
    - custom User-Agents for Android, iOS and other platforms
    - new SmartTVs, STBs and other OTT devices
    - device level detection for certain Roku UAs
- Expanded support for
    - User-Agent Client Hints
    - ChromeOS devices
    - is_smartphone and form_factor capabilities

    - App detection via is_app and advertised_app_name
    - Chromium based browsers and web clients
    - iOS and iPadOS versions and devices Note: We periodically update the definition of what we consider a Smartphone. These changes affect the is_smartphone and form_factor capabilities. This version of the WURFL API makes the following changes:
    - Horizontal Resolution requirements increased to 540 pixels
    - Minimum OS version requirements increased to iOS 9, Android 6.0
    - Removed RIM OS and Windows Phone OS from being considered as Smartphone OS'es
    - Added HarmonyOS

1.12.5.0 - March 1, 2022

- Dropped support for PHP 7.1, 7.2 and 7.3
- Added support for
    - new robots, spiders and crawlers
    - custom User-Agents for Android, iOS and other platforms
- Added methods:
    - HttpRequest::isUaFrozen()
    - HttpRequest::headerQuality()
- Expanded support for
    - User-Agent Client Hints
    - SmartTVs, STBs and other OTT devices
    - App detection via is_app and advertised_app_name Note: Support for User-Agent Client Hints is now turned on by default.

1.12.4.0 - November 24, 2021

- Added support for
    - new robots, spiders and crawlers
- Expanded support for
    - SmartTVs, STBs and other OTT devices
    - Custom User-Agents for Android, iOS and other platforms
    - App detection via is_app and advertised_app_name
    - Certain Windows 11 User-Agents
    - iOS and iPadOS versions and devices
    - KaiOS based devices
    - Tizen based devices

1.12.3.3 - October 28, 2021

- Fixed behavior for

- ExtraHeadersExperimental

1.12.3.1 - 1.12.3.2

- Bugfix releases for other WURFL API products

1.12.3.0 - September 29, 2021

- Added support for
  - new robots, spiders and crawlers
- Expanded support for
  - App detection via is_app and advertised_app_name
  - SmartTVs, STBs and other OTT devices
  - Certain User-Agents from the Roku OS platform
  - iOS and iPadOS versions and devices
- Fixed behavior for
  - Google Read Aloud Assistant: this service is a text to speech assistant and will no longer be categorized as a robot

1.12.2.0 - July 19, 2021

- Added support for
  - Chromium based browsers and web clients
- Expanded support for
  - Android devices
  - App detection via is_app and advertised_app_name
  - Certain non-standard app based User-Agents
  - SmartTVs, STBs and other OTT devices
  - Custom User-Agents for Android, iOS and other platforms

1.12.1.0 - May 24, 2021

- Added support for
  - new robots, spiders and crawlers
- Expanded support for
  - SmartTVs, STBs and other OTT devices

1.12.0.0 - February 26, 2021

- Added support for
  - new robots, spiders and crawlers
  - Chromium based browsers and web clients
- Expanded support for
  - SmartTVs, STBs and other OTT devices
  - KaiOS based devices
  - App detection via is_app and advertised_app_name
  - game consoles
  - Firefox based browsers
- Fixed behavior for
  - User-Agents with invalid Android versions will now consistently return the default/fallback Android version (4.0)

1.11.10.0 - November 23, 2020

- Dropped support for PHP 5.6
- Dropped support for PHP 7.0
- Added support for
  - Chromium based browsers and web clients
- Expanded support for
  - SmartTVs, STBs and other OTT devices
  - App detection via is_app and advertised_app_name
  - iOS and macOS webviews and apps
  - iOS and iPadOS versions and devices
  - Android TV devices

1.11.9.0 - September 14, 2020

- Added support for
  - new robots, spiders and crawlers
- Expanded support for
  - SmartTVs, STBs and other OTT devices
  - iOS and macOS webviews and apps
  - App detection via is_app and advertised_app_name

1.11.8.0 - July 1, 2020

- Added support for
  - new robots, spiders and crawlers
- Expanded support for

    - SmartTVs, STBs and other OTT devices
    - Android devices
    - iOS versions and devices
    - App detection via is_app and advertised_app_name

1.11.7.1 - May 4, 2020

- Expanded support for
    - iOS versions and devices

1.11.7.0 - April 30, 2020

- Added support for
    - new digital assistant and connected speaker devices
- Expanded support for
    - UC Browser User-Agents
    - iOS versions and devices
    - App detection via is_app and advertised_app_name
    - SmartTVs, STBs and other OTT devices
    - Chromium based browsers and web clients

1.11.6.0 - February 17, 2020

- Expanded support for
    - App detection via is_app and advertised_app_name
    - Web browsers
    - new iOS versions and devices
    - SmartTVs, STBs and other OTT devices
- Fixed behavior for
    - Android User-Agents

1.11.5.0 - December 4, 2019

- Added support for
    - new robots, spiders and crawlers
- Expanded support for
    - new iOS versions and devices
    - App detection via is_app and advertised_app_name
    - Chromium based browsers and web clients
    - SmartTVs, STBs and other OTT devices

    - Fire OS TV devices
- Fixed behavior for
    - UC Browser User-Agents
    - Samsung Browser: Both Dex and Samsung browsers will now return "Samsung Browser" for the advertised_browser_name virtual capability. This is because both browsers will send a similar HTTP request in desktop mode/requesting a desktop User-Agent.
    - Vivaldi: Vivaldi web browser will now return "Vivaldi" and not "Vivaldi browser" for the advertised_app_name virtual capability. This is to be consistent with the browser's branding.

1.11.4.0 - September 16, 2019

- Expanded support for
    - App detection via is_app and advertised_app_name
    - Chromium based browsers and web clients
    - SmartTVs, STBs and other OTT devices
    - KaiOS based devices
    - certain Xiaomi devices

1.11.3.0 - June 17, 2019

- Expanded support for
    - SmartTVs, STBs and other OTT devices
    - App detection via is_app and advertised_app_name
    - Chromium based browsers
    - Digital Assistant devices
    - new iOS versions and devices
- Fixed behavior for
    - UC Browser User-Agents
    - bot, spider and crawler detection

1.11.2.0 - April 17, 2019

- Added support for
    - new robots, spiders and crawlers
- Expanded support for
    - SmartTVs, STBs and other OTT devices
    - App detection via is_app and advertised_app_name
    - Google Assistant based devices
    - Chromium based browsers
- Fixed behavior for

    - bot, spider and crawler detection

1.11.1.0 - February 11, 2019

- Added support for
    - new robots, spiders and crawlers
    - new Chromium and Gecko based browsers
- Expanded support for
    - App generated UAs on Android and iOS platforms
    - App detection via is_app and advertised_app_name
    - STBs and other OTT devices
    - SmartTVs, STBs and other OTT devices
    - Chromium based browsers
    - Google Assistant based devices
- Fixed behavior for
    - is_app and is_app_webview behavior under certain conditions where additional HTTP headers are available
    - Android model name extraction for certain User-Agents
- Deprecated methods
    - UserAgentUtils::getAndroidModel

1.11.0.0 - December 5, 2018

- Added support for
    - new Chromium based browsers
    - new virtual capability - pixel_density
- Expanded support for
    - app detection via is_app, is_app_webview and advertised_app_name
    - Xbox game consoles
    - web automation frameworks and libraries
    - Internet Explorer and Edge browsers
    - Yahoo Mail
    - robots, crawlers and spiders
    - new Apple devices
    - Gmail

1.10.0.0 - September 24, 2018

- Potentially breaking change: Please note that this version standardizes tvOS return values for advertised_device_os and advertised_browser capabilities and aligns them to Apple's branding practices. "TV OS" will henceforth be called "tvOS" and "TV OS App" will be renamed to "tvOS App"
- Added support for
  - new Chromium and Gecko based browsers
- Expanded support for
  - app detection via is_app, is_app_webview and advertised_app_name
  - KaiOS based devices
  - PlayStation devices
  - Apple TV devices

1.9.5.0 - July 23, 2018

- Dropped support for PHP 5.4
- Deprecated methods:
  - The optional parameter $override_sideloaded_browser in HttpRequest::__construct(array $request_headers, $override_sideloaded_browser_ua = true) has been deprecated and its TRUE logic will be the standard logic used. This API will emit E_USER_DEPRECATED if $override_sideloaded_browser is not set to TRUE. Implementations that use HttpRequest::__construct($request_headers) or HttpRequest::__construct($request_headers, true) are unaffected.
  - WURFLEngine::enableFastDesktopBrowserMatch
  - WURFLEngine::disableFastDesktopBrowserMatch
  - WURFLEngine::isFastDesktopBrowserMatchEnabled
  - AbstractDeviceMatcher::applyConclusiveMatch
  - AbstractDeviceMatcher::applyRecoveryMatch
- Aligned some return values for the advertised_device_os virtual capability to align with device_os static capability
  - "Bada" is now "Bada OS"
  - "Nokia Series 40" is now "S40 OS"
  - "Symbian" is now "Symbian OS"
- Added support for
  - Certain Android P User-Agents
  - Certain TV OS User-Agent formats
  - Digital Assistants
  - New Opera browser versions
  - New Tizen versions
  - Upcoming Android and iOS versions
  - New tvOS versions
- Improved support for is_app capability for SmartTV devices
- Expanded app detection support via is_app and advertised_app_name

- Optimized model name extraction for certain Android apps that send irregular User-Agent structures
- Fixed an issue that caused certain Fire OS webview User-Agents to be misclassified within is_app and is_app_webview
- Removed --force flag for wurfl-updated command
- Fixed an issue that could cause a random AspectException during WURFL loading in daemon mode

1.9.4.0 - May 21, 2018

- Added support for
    - Upcoming iOS versions
    - MIUI Browser
    - Quark Browser
    - Avast Secure
- Improved support for
    - Apple iPad (6th gen)
    - Sony and Vizio Smart TVs
    - Roku devices
    - App name detection (advertised_app_name)
    - Microsoft Office
    - Yandex browser
    - Baidu Browser
    - Apple Core Media User-Agents
    - Facebook Messenger
- Removed deprecated methods:
    - AndroidMetadata::releaseMap
    - HttpRequest::getUserAgentProfile
    - VirtualCapabilityProvider::getObject
    - VirtualCapabilityProvider::getRequiredCapabilities

1.9.3.3 - April 23, 2018

- Added virtual capabilities:
    - generalized_browser_type
    - generalized_os_brand
- Improved detection of UCWebBrowser

Version 1.9.3.2 - April 9, 2018

- Fixed wurfl_capability_filter reload issues

Version 1.9.3.1 - April 4, 2018

- Fixed Roku regression

Version 1.9.3.0 - March 19, 2018

- Potentially breaking change: The definition of what we consider smartphones is changing with this release. Please read this article for more details on what is changing and why - https://www.scientiamobile.com/keeping-smartphones-smart
- Added support for
    - KaiOS
    - Tizen 4.0
    - Some Android media players
- Improved detection of
    - Robots and Crawlers
    - Mobile and desktop applications
    - Smart-TVs
    - SmartPhones
    - Game consoles

Version 1.9.2.0 - December 13, 2017

- Added support for
    - Upcoming iOS versions
    - Upcoming Tizen versions
    - Extracting model numbers for desktop devices under certain conditions
- Improved detection of
    - Opera Mobi and Tablet on Android
    - Requests from UCBrowser's U2 engine

Version 1.9.1.1 - November 27, 2017

- Improved engine loading

Version 1.9.1.0 - November 6, 2017

- Breaking: The default version of Android is now 4.0. Undetecteable/corrupted Android User-Agents will now return a more appropriate OS version.
- Added support for
  - Upcoming iOS versions
  - Upcoming Android versions
  - Edge browser on iOS and Android
  - Steam in-game requests
  - Firefox Focus
  - Yandex Desktop
- Improved detection of
  - Fire OS
  - iPhone hardware
  - Apps
  - Huawei devices
  - Firefox on Android User-Agents
  - Android and iOS UCbrowser User-Agents
  - Edge browser
- Added additional validation for advertised_device_os
- MongoDB: Fixed exception "document to insert contains invalid key" with mongodb driver > 1.2.6

Version 1.9.0.0

- Decommissioning of engine target options
- Improved detection of
  - Android
  - Bots
  - Apps
  - Amazon Silk Browser
  - CFNetwork User-Agents
- Added support for
  - Epiphany detection
  - iOS 11
  - Samsung Dex
  - Samsung Browser
  - Tizen 3.0
- Added stripping of non-printable characters from the User-Agent
- Deprecated methods:
  - WURFLEngine::enablePerformanceMode()

    - WURFLEngine::enableAccuracyMode()
    - WURFLEngine::isPerformanceModeEnabled()
    - AndroidMetadata::releaseMap()
    - VirtualCapabilityProvider::getObject()
- Fixed Opcache invalidate always increase wasted memory

Version 1.8.4.0

- Added detection of Nintendo Switch
- Added detection of Email client
- Improved detection of devices with encoded user agents
- Fixed Android 4.4/5.x mistakenly classified as apps
- Fixed advertised_os vcap detection for requests from Opera Mini browser
- Deprecated HttpRequest::getUserAgentProfile method

Version 1.8.3.0

- Added support for upcoming iOS and Android versions
- Updated support for Microsoft Edge browsers
- Improved detection of
    - some Nintendo devices running Access/Netfront browsers
    - macOS User-Agents
- Fixed compatibility for the Redis cache adapter with redis server v2.8.x

Version 1.8.2.1

- Fixed an error with wurfl-updater when snapshot is up-to-date

Version 1.8.2.0

- Added iOS 10.2 hardware IDs
- Added new virtual capability - advertised_app_name
- Improved detection of
    - MSIE browsers with alphanumeric versions
    - UAs originating from Google Search app on iOS
- Updated support for Microsoft Edge and Opera browsers
- Fixes in robot, Kindle and Windows Phone detection
- Added Redis storage and cache adapter
- Added APCu cache adapter
- Removed deprecated Metadata class properties

- Deprecated APC cache adapter in favor of APCu
- Deprecated class Constant in favor of Api

Version 1.8.1.0

- Added Android 7.1 devices
- Added iPhone 7 and 7 plus device
- Added support for Amazon mobile app
- Improved wurfl-updater script
  - added clear cache option
- Improved device lookup performance
- Review of patch file load process

Version 1.8.0.6

- Improved performance retrieving capabilities and virtual capabilities
  - Added an inline cache system to speedup fallback tree generation
  - Improved the virtual capability group initialization logic
- Improved the MongoDB adapter

Version 1.8.0.5

- Added warning about missing Snapshot URL
- Improved patch files validation
- Fixed capability to string conversion with boolean
- Fixed bug in MySQL cache adapter

Version 1.8.0.4

- Fixed a Repository exception with wurfl-updater
- Updated composer dev dependencies

Version 1.8.0.3

- Adds UPGRADE documentation
- Improved storage permission check
- Improved performance
- Minor fixes

Version 1.8.0.2

- Improved wurfl-updater script
- Minor fixes

Version 1.8.0.1

- Support for url-encoded UAs
- Better iPod Touch detection
- Better Facebook and Mobile App detection
- Added Chinese Android detection
- Added Android 7 detection
- Added iOS 10 detection
- Mandatory Capabilities are automatically loaded during engine load
- Dropped support for PHP 5.3
- Implemented standard interfaces:
  - PSR3 psr/log
  - PSR6 psr/cache
  - container-interop
- Added SQLite storage and cache adapter
- Added MySQL storage and cache adapter
- Added MongoDB storage and cache adapter
- Added WURFL updater

[2016.05.23] Version 1.7.1.2

- Fixed wurfl.xml extraction not multi instance safe
- Fixed cache interferes with is_app_webview and advertised vcap values
- Improved WURFL_FileUtils::getTempDir() to return a multi instance safe temporary dir
- Deprecated the WURFL_Request_UserAgentNormalizer_Interface

[2016.04.19] Version 1.7.1.1

- Improved performance detection
- Improved build lock implementation with multiple api's

[2016.04.13] Version 1.7.1.0

- Added detection of:
  - Palemoon Browser
  - Bravia SmartTV
  - iOS 10 and new iOS devices
  - Desktop App
- Fixed IIS detection issues
- Fixed controlcap mechanism
- Fixed APC and Memcache storage namespace conflict with multiple api's

[2015.03.29] Version 1.7.0.1

- Fixed PHP 5.3 compatibility

[2015.02.08] Version 1.7.0.0

- Added WURFL.XML deviceIds consistency check
- Improved detection of:
  - Apple devices
  - Edge browser
- Added new Virtual Capability: device_name

[2015.12.16] Version 1.6.4.2

- Added mandatory capabilities for advertised capabilities

[2015.12.09] Version 1.6.4.1

- Fixed is_phone virtual capability logic

[2015.12.04] Version 1.6.4.0

- Improved detection of:
  - Nokia devices
  - Android User-Agents (UAs) without model names

    - Certain feature phones running Opera Mini
    - SmartTVs
    - UAs from Android apps
    - Blackberry Playbook
    - Bot UAs
    - Firefox on iOS
- Improved internal UA matching methods

[2015.10.19] Version 1.6.3.0

- Improved detection of:
    - CFNetwork
    - Android webview
    - Google Web Preview and Google Image Proxy bots
    - New iPhone/iPad devices
    - Certain third party Android browsers

[2015.08.04] Version 1.6.2.0

- Improved detection in VC tool for:
    - MSIE 12/Edge
- Improved detection of:
    - Windows Phone
    - Bots
    - CFNetwork

[2015.07.01] Version 1.6.1.0

- Improved detection in VC tool for:
    - MSIE 12/Edge
    - Baidu browser
    - Apple
- Improved detection of:
    - Windows Phone
    - Kindle
    - SmartTV
    - Apple
    - CFNetwork
    - FirefoxOS
    - Opera

[2015.04.20] Version 1.6.0.1

- Fixed
  - Header sanitize error when Header value is an array (i.e. argv)

[2015.04.01] Version 1.6.0.0

- Added
  - Android 5.1 support
  - MSIE 12/Edge 12.0 support
  - Tizen 2.3 support
  - Trove Bot detection
  - Windows Phone 10 support
- Improved detection performance
- Improved detection of:
  - Android
  - CFNetwork
  - Chromium
  - Firefox OS
  - MSIE 12/Edge support
  - Opera
  - SmartBrowser
  - SmartTV
  - UCWebBrowser
  - Wii
- Added virtual capabilities:
  - is_phone
  - is_app_webview

[2014.12.02] Version 1.5.3.0

- Added Opera for Android UA support in VC tool
- Added iOS 8.1 WURFL hardware IDs
- LD Algorithm Enhancement
- Added UC browser on Windows Phone support

[2014.09.22] Version 1.5.2.1

- Improved form_factor capability
- Improved support for Apple devices

[2014.09.02] Version 1.5.2.0

- Improved detection of:
  - Android
  - Apple
  - Firefox OS
  - Internet Explorer
  - Opera
  - Smart TVs
  - Tizen
  - Ubuntu OS
  - Windows Phone
  - Windows RT
- Improved existing virtual capabilities
- Added virtual capabilities:
  - complete_device_name : The brand_name, model_name and marketing name (if applicable)
  - form_factor : Tablet, Smartphone, Feature Phone, Robot, Desktop, Smart-TV, Other Non-Mobile
- Added support for iOS 8
- Added the ability to detect sideloaded browser instead of the device with its stock browser

[2014.04.23] Version 1.5.1.1

- Improved accuracy of is_robot
- Bugfix: auto-reload is not thread safe when lockfile is on a filesystem without flock support

[2014.01.07] Version 1.5.1.0

- Added support in Virtual Capabilities for:
  - Internet Explorer 11
  - Windows 8.1
  - OS extraction for Opera Mini User-Agents
- Improved detection of:
  - Android
  - Apple iOS
  - Xbox One
  - Pantech feature phones
- Added new matcher for Desktop Applications
- Optimized matcher order

[2013.10.09] Version 1.5.0.2

- Bugfix: using an old WURFL with MySQL persistence causes infinte loop

[2013.10.07] Version 1.5.0.1

- Bugfix: missing capabilities demo page

[2013.10.03] Version 1.5.0.0

- New Feature: Virtual Capabilities
- Improved normalization
- Improved detection of:
  - Android
  - Apple iOS
  - Windows Phone
  - Firefox Mobile
  - Firefox OS
  - SmartTVs
  - BlackBerry
  - Skyfire
  - Opera Mini
  - UCWEB
  - Robots
  - Native apps

[2013.01.11] Version 1.4.4.0

- Improved detection of Android 4.1+
- Improved detection of Windows RT
- Simplified detection of Firefox desktop
- Improved detection of Xbox console
- Improved detection of Opera Mobi and Opera Tablet

[2012.11.07] Version 1.4.3.0

- Improved detection of Kindle Fire
- Improved detection of Playstation Vita
- Improved detection of Windows Phone
- Improved detection of Windows RT
- Improved detection of Safari desktop browser
- Added Device-Stock-UA support

- Improved detection of Maemo devices
- Improved detection of SmartTVs
- Improved detection of XBOX 360
- Improved detection of Epiphany browser
- Updated WURFL database

[2012.09.04] Version 1.4.2.0

- Improved detection of Mobile Chrome
- Improved detection of Smart TVs
- Improved examples to allow auto-reloading if WURFL data changes
- Bugfix: Improperly normalized filenames on Windows may cause exceptions

[2012.07.30] Version 1.4.1.1

- Bugfix: Some desktop UAs with "toolbar" are detected as robots in HA mode

[2012.04.07] Version 1.4.1

- Bugfix: Invalid definition of WURFL_Storage::save()
- Bugfix: Chrome Beta on Android is not detected properly
- Bugfix: Invalid system temp dir returned from sys_get_temp_dir()

[2012.03.30] Version 1.4.0

- Complete overhaul of all User Agent Handlers
- Improved normalizers
- Added High-Performance vs. High-Accuracy mode
- Added Introspector utility for diagnostics
- Massive code and documentation cleanup
- Added "Secondary Caching" to persistence providers, so memcache and APC can be used to improve performance of lookups to the persistence provider
- Refactored examples for simplicity
- Changed recommended configuration from XML Config to InMemory config
- Removed the web patch, as it is now integrated with the main WURFL file

[2011.07.19] Version 1.3.1

- Enabled displaying errors in example script

- Updated default wurfl.xml
- Added manual lookup script
- Fixed bug with auto-loading WURFL failure on Solaris (EX flock on RO file failed)
- Improved detection of Tablet PC devices
- Improved detection of Android 2.3 - 3.0 devices

[2011.05.14] 1.3.0

- Documented all classes
- Improved Exceptions
- Bugfix: ArrayConfig can now use relative config file pathnames
- Updated unit tests and phing build file

[2010.10.05]

- Added Storage to replace (Persistence & Cache)
- Added NameSpace support for Memcache and Apc
- Added Normalizers for
  - Locale
  - SerialNumbers
  - Maemo
- Added Handler
  - MaemoHandler
- Added Support For Multiple Memcache backend

[2010.05.06]

- Replaced WURFLManagerProvider with WURFLManagerFactory
- Autoreloading Added

[2009.06.01]

- Configuration:
  - Changed the "persistance" to "persistence" (N.B a to e) in wurfl-config.xml
  - Added Possibilty to specify configuration from an array.(array-wurfl-config.php)
- Normalizers
  - Added
    - Android
    - Chrome
    - Opera

        - Safari
        - MSIE
- Handlers
    - Added
        - AndroidHandler
        - ChromeHandler
        - BotCrawlerTranscoderHandler
- Logger
    - Removed dependency from the PEAR Log
    - Added Custom Logger
- WURFLLoader
    - Added A WURFLReloader
- Created a new web_browsers_patch

[2010-06-16]

Added Caching expiration capability