

# PalmSource™ mBrowser



An optimized micro browser for mobile devices.

## Highlights:

- Fully featured browser functionality with support for WML and xHTML
- Modular design, easy to configure for different devices
- Highly portable to different operating systems
- Complete network protocol stacks for TCP/IP and WAP, for wireless Internet connections
- Security based on SSL, TLS with 128 bit encryption
- Multimedia features such as graphics, audio, video, and Macromedia Flash file support
- Optimized for embedded devices with limited memory, CPU power, and small screens.

## mBrowser Overview

PalmSource mBrowser is a micro browser optimized for mobile phones and wireless devices. It is very small, fast, and supports WAP 2.0, including xHTML. It features a compact core, configurable modules, low system requirements, and easy portability to various operating systems.

## mBrowser Architecture

PalmSource mBrowser consists of several layers: network layer, parser, layout engine, and event handler. The network layer implements all network protocols, including TCP/IP and WAP stacks. The parser analyzes various file formats such as xHTML, WML, and various graphic files to prepare them for optimal display. The layout engine displays the files on the screen, which may vary dramatically from a very small screen of a mobile phone to a larger PDA screen.

PalmSource mBrowser can automatically adjust itself to display properly on the target screens. The event handler interprets input from the user input or underlying system such as mouse clicks, scrolling, network connection, and more.

## Specifications Overview

Components	PalmSource mBrowser I	PalmSource mBrowser II	PalmSource mBrowser III
Target Device	WAP enabled mobile phones	Smart phones, PDAs, handheld computers, etc.	TV set-top boxes and other Internet appliances
Code Size	250K	500K - 1M	2M
Run-time memory	32K	64K – 256K	4M
Required CPU speed	Above 3 MIPS	3 – 50 MIPS	Above 50 MIPS
TCP/IP	No	Optional	Yes
HTTP 1.1	No	Yes	Yes
WAP 1.2 stack	Yes	Yes	Yes
WAP 2.0 stack	Yes	Yes	Yes
PPP	Yes	Yes	Yes
Proxy	No	Yes	Yes
Cache	Optional	Yes	Yes
Cookies	No	Optional	Yes
WML support	Yes	Yes	Optional
HTML 4.0 support	No	Yes	Yes
WML Script	Yes	Yes	Optional
Javascript	No	Optional	Yes
Graphics support	WBMP	WBMP, GIF, JPG, PNG, BMP	WBMP, GIF, JPG, PNG, BMP
Animation support	No	Animated GIF, Flash (Optional)	Animated GIF, Flash (Optional)
Character code set	UTF-8	UTF-8, Unicode, GB, BIG5	UTF-8, Unicode, GB, BIG5
Audio file support	No	WAV, MIDI, MP3 (Optional)	WAV, MIDI, MP3



PalmSource, Inc.  
 1188 East Arques Avenue  
 Sunnyvale, CA 94085  
 U.S. (408) 400-3000  
[www.palmsource.com](http://www.palmsource.com)

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