

# Barracuda

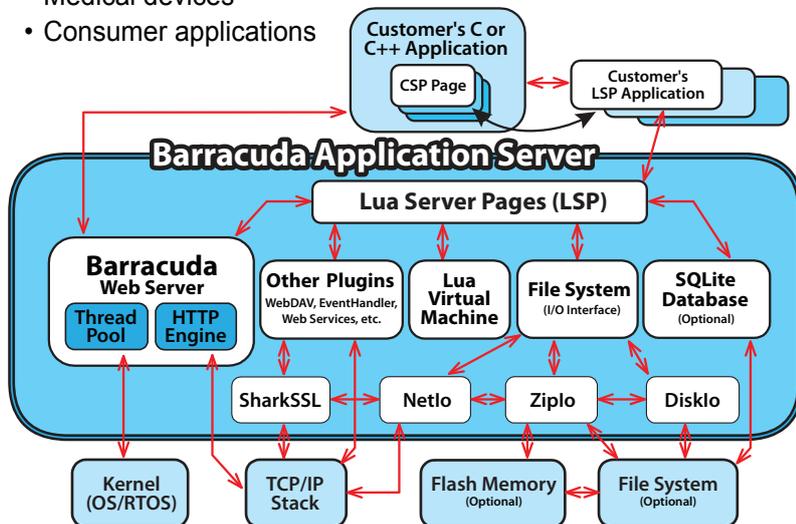
Barracuda Application Server (BAS) provides a complete framework that brings together all the components needed to quickly launch your first web application.

Whether you're an entry-level developer or an experience veteran, Barracuda Application Server offers a smart selection of integrated capabilities optimized for easy development of IoT and M2M embedded web applications.

BAS streamlines a powerful and robust application framework to guide you through web development without making you face detailed integration and embedded device challenges. This eliminates the repetitious, error-prone development patterns common to web development.

Barracuda Application Server is much more than an embedded web server. It bundles all of the components and tools needed to easily and efficiently build graphically rich, dynamic embedded web applications for your devices whether you're designing for:

- Industrial and building control
- Military applications
- Medical devices
- Consumer applications

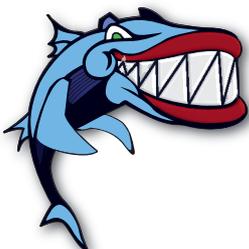


## Barracuda Application Server with Built-in Embedded Web Services and Application Components

Barracuda Application Server integrates a full range of embedded web services, including event handler, secure network file system, secure sockets library, and AJAX, SOAP, JSON, and XML web services.

- Barracuda Web Server
- SharkSSL (Embedded SSL/TLS Client & Server)
- Lua Server Pages (LSP)
- C Server Pages (CSP)
- PikeHTTP (Client HTTPS Library)
- SMTP Client
- AJAX, JSON, and XML-RPC
- SOAP Web Services
- WebDAV File Server
- EventHandler (WebSockets)
- High-Level Secure Sockets
- Database Plug-In

Fig. 1: Barracuda Application Server makes the developer experience as pain free as possible. It bundles all of the components and tools needed to easily and efficiently build graphically rich, dynamic embedded web applications.



**Barracuda**  
APPLICATION SERVER



Embedded Tools GmbH Fon: +49 251 98729-0  
Willy-Brandt-Weg 33 Fax: +49 251 98729-20  
48155 Münster www.embedded-tools.de

## BAS & the Lua advantage

To maximize performance and flexibility, Barracuda Application Server makes use of two server-side languages (Lua/LSP) with full framework integration for each. Lua's speed and adaptability has driven its widespread adoption, even in the gaming industry where dynamic graphics must be manipulated at high speeds. Lua outstrips CGI-based tools which struggle to cope with the next-generation graphics capabilities of today's MCUs.

Lua speeds development too. Its "just in time" compilation removes the overhead associated with C-based development, eliminating tricky string manipulation and memory management.

C is retained where it works best by connecting your web application to hardware. C Server Pages (CSP) allow C or C++ code to be inserted directly into an HTML file.

## The optimal user interface

Barracuda Application Server delivers a slick smartphone-like user experience at the lowest possible hardware cost.

Up-to-the-minute technology results in a product shown to be at least a 25% quicker than the competition, with a footprint advantage to match.

Asynchronous AJAX and JSON techniques are used to take full advantage of that superiority, enabling a web application to pass data to and from a server without interfering with the behavior of the current page.

## Licensing

### Barracuda Application Server Licensing

- All RTL products are Proprietary Intellectual Property
- 90 days of Support & Maintenance included
- Commercial licensing is available on a perpetual or term basis with no run-time royalties or volume restrictions.

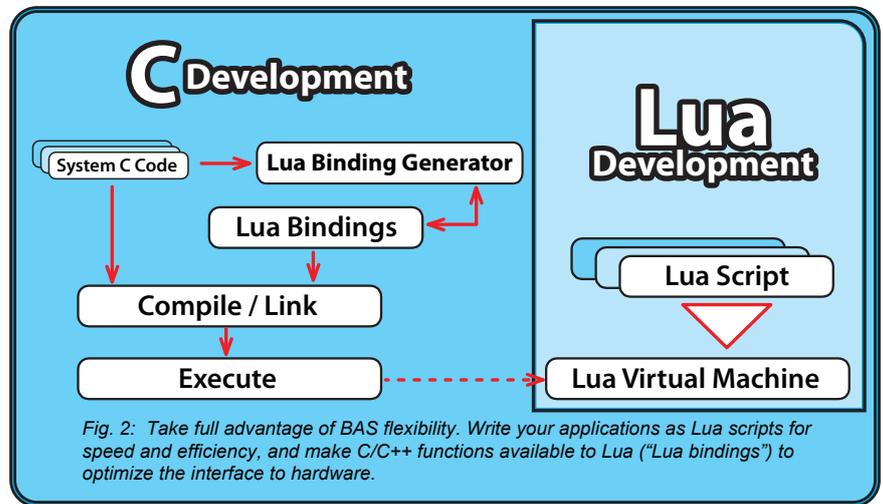


Fig. 2: Take full advantage of BAS flexibility. Write your applications as Lua scripts for speed and efficiency, and make C/C++ functions available to Lua ("Lua bindings") to optimize the interface to hardware.

## Effective, Secure communications

Barracuda Application Server includes SharkSSL - the world's smallest and best performing SSL v3.0/TLS v1.2 solution. Designed from the ground up to ensure completely secure communication, Shark SSL incorporates:

- Elliptic Curve technology.
- Suite B (Military & Government).
- Crypto Libraries for processors that provide limited or no acceleration support (AES/DES, 3DES, ARC4, SHA1, and MD5).

## Ease of integration

Barracuda Application Server supports:

- Standard off-the-shelf operating system and networking:
  - VxWorks, Integrity, ThreadX, Quadros, QNX, SMX, Linux, Embedded Linux, Nucleus, Windows CE, embOS, and MQX
- Event handler and standard web sockets via a high-level socket API
- Interfacing to database systems
  - SQLite and MySQL



Headquarter Real Time Logic LLC 14 Monarch Bay Plaza, #108 - Monarch Beach, CA 92629 USA  
phone +1 949-388-1314 fax +1 949-272-3781 [www.realtimelogic.com](http://www.realtimelogic.com) [info@realtimelogic.com](mailto:info@realtimelogic.com)

## About Real Time Logic

Real Time Logic is a leader in embedded web server and security products for remote management and control. We offer high-performance, reliable web applications with enterprise-level security on compact, lower-power devices.



Embedded Tools GmbH Fon: +49 251 98729-0

Willy-Brandt-Weg 33

48155 Münster

Fax: +49 251 98729-20

[www.embedded-tools.de](http://www.embedded-tools.de)