



## Focus on your protocols, let AMPS do the rest

- Scale protocol servers across CPUs and machines seamlessly
- Decrease development costs and resources
- Reduce time to market
- Achieve performance gains
- Get OS and hardware independence

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# AMPS™

AMPS is gaining quick acceptance in industry and many protocol servers have been implemented on it and many others are under progress. AMPS is available under GPL as well as a commercial license.

## Why Use AMPS?

AMPS is to protocol servers what OS is to application programming. It provides a core set of higher level abstractions and their industry's best practice implementations for tasks common to most protocol servers. It also provides a programming model that is event driven and by design facilitates application developers in several dimensions.

## Scale protocol servers across CPUs & machines seamlessly

Focus on your core protocol details and AMPS will allow your implementations to scale across CPUs and machines. AMPS makes sure that your application can scale close to any theoretical limits of clustering and scalability.

## Decrease development cost & resources

AMPS provides powerful abstractions and interfaces common to most protocol server implementations. This includes event scheduling, timer management, buffer management, I/O management, memory management, network transport handling, database interaction and object caching etc. This relieves the programmer from re-programming these tasks for each implementation as he can use widely tested reusable components and APIs.

## Reduce time to market

The programming model provided is primarily asynchronous and event driven. It significantly reduces the time to market of the application since it eliminates complexities and subtle bugs resulting due to the need for synchronization and mutual exclusion to avoid race conditions in multi threaded implementations.

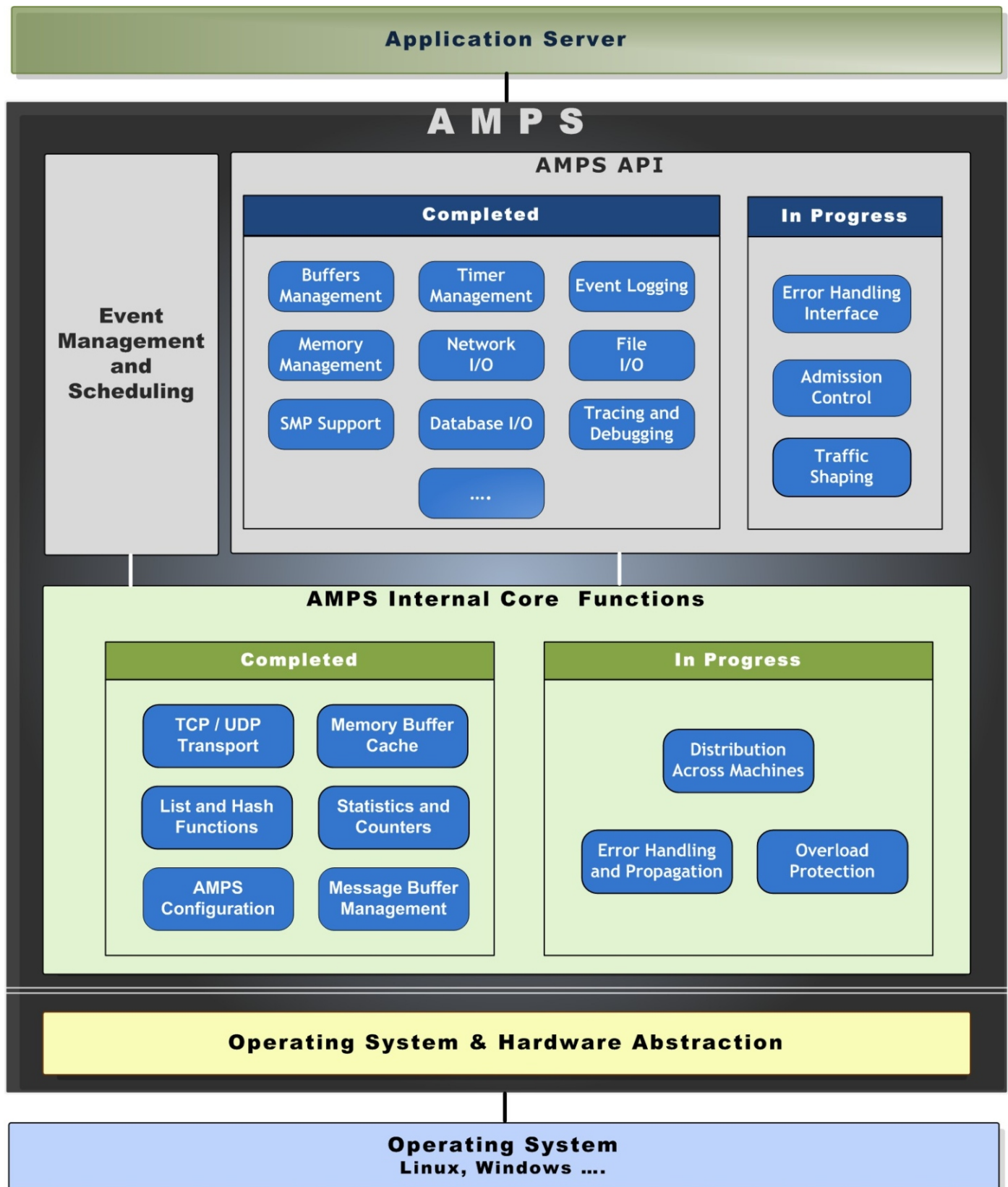
## Achieve performance gains

AMPS is designed to provide high performance due to its asynchronous, non-blocking and event-driven architecture. This architecture is generally considered more efficient than the prevailing multi- threaded programming model. In addition, AMPS uses industry's best practices in implementation of abstractions and APIs that it provides.

## Get OS and hardware independence

AMPS offers complete abstraction from the underlying hardware and operating system. Implementations over AMPS are portable across all platforms supported by AMPS today and in future. Current list of supported operating systems include Linux and Windows. Other ports are in progress and can be escalated on demand.

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# AMPS™

## The following protocol server implementations are available immediately:

- SIP Proxy and Registrar Server (Full RFC 3261 compliant)
- RTP Media Relay Server
- VoIP Softswitch with Least Cost Routing Engine

## Other possible servers that can be implemented over AMPS:

- Internet Gaming Servers
- IPTV Servers
- Content Distribution Servers
- VoD Servers
- WiMax ASN Gateways
- Any other application server implementation

## Under Development:

Other protocol server implementations in progress under AMPS team supervision by different groups and companies worldwide:

- SIP based IP PBX and Centrex switch.
- DIAMETER base protocol server
- IMS HSS (Home Subscriber Server)
- IMS OAM&P (Operation, Administration, Maintenance & Provisioning System)
- IMS MRFC and MRFP (Media Resource Function Controller and Processor)
- DIAMETER applications including IMS online and offline charging functions
- IMS Call Control Servers (I-CSCF, P-CSCF, S-CSCF)
- SIP based Instant Messaging(IM) Server
- SIP based presence server
- SIP based conferencing server
- Media mixers for conferencing
- VoiceMail servers
- Others (check website)

## Source Code Licensing

AdvancedIMS - the parent company of AMPS - provides complete off the shelf and high performance implementations of some core protocol servers. These implementations are available for source code licensing.

visit [www.AdvancedIMS.com](http://www.AdvancedIMS.com) for details

## Custom Application Development

To further reduce your time to market, AdvancedIMS offers start-to-finish application development. AdvancedIMS can develop all or part of your protocol server implementation. The applications will be built on AMPS framework so that your protocol can have all the benefits that AMPS offers.

## Research Funding

AMPS is one of the few available frameworks for asynchronous implementation of protocol servers. After its launch, AMPS is quickly gaining ground and increasingly being used by server implementations worldwide. Much improvement is under progress and any research or academic funding to accelerate these tasks is welcome and appreciated.

\* AMPS is open source under GPL and also available under commercial license.

**AMPS**<sup>TM</sup>  
an AdvancedIMS product

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