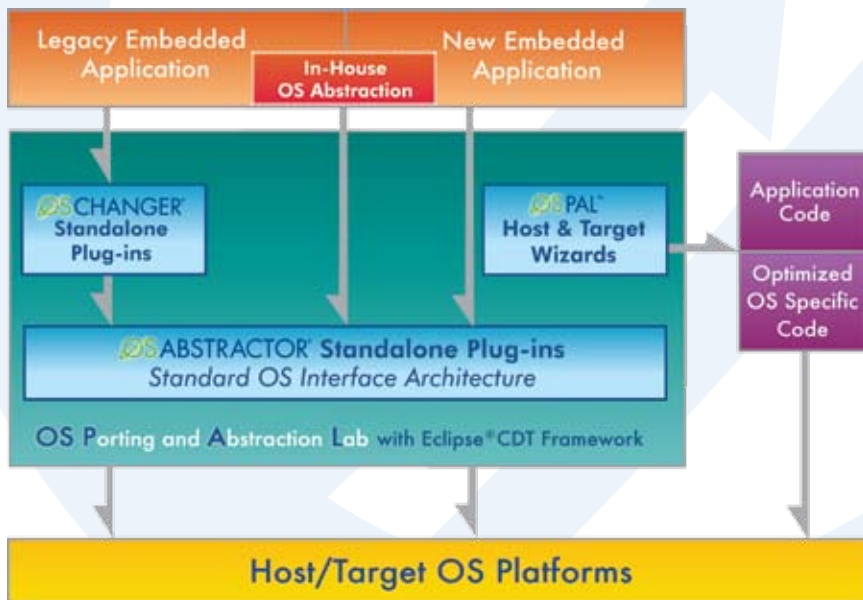


MAPUSOFT®

Porting Made EasySM

MapuSoft Technologies™ is the leading provider of embedded software solutions and services designed to protect software investment by increasing the developer's level of software re-use in product development. MapuSoft offers porting, integration, support and training services to help developers easily migrate from legacy platforms to the next generation.

Porting embedded applications from one OS to another OS is often an underestimated, tedious and time-consuming task. It also requires expensive and skillful resources that take the focus away from building your product. Embedded applications require more and more performance, scalability and development flexibility from the underlying OS. Developers are forced to change their OS or extend support for more than one OS quickly as the market demands. Developers find that they need to leverage the existing software and knowledge base when migrating to next generation platforms in order to lower costs and decrease the time to market entry. This has created a need for the development of highly re-usable software that can run across proprietary and multiple commercial operating systems as well as utilize open source components or other low cost alternatives. MapuSoft offers OS PAL, OS Abtractor and OS Changer products to help developers streamline development processes and re-use their embedded software on one or more operating systems.



OS ABTRACTOR®

Write Portable Code,
Protect Your Investment

OS CHANGER®

Keep Your Code,
Change Your OS

OS PAL™

Eclipse-based
Code Migration and
Optimization Tool

FREE Trial Software

Go to
[www.mapusoft.com/
downloads](http://www.mapusoft.com/downloads)

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OS ABTRACTOR®

Write Portable Code – Protect Your Investment

Developing a solid software architecture that can run on multiple OS requires considerable planning, development and testing as well as upfront costs associated with the purchase of various OS and tools to validate your software. The OS Abtractor solution is an effective and economical alternative.

OS Abtractor consists of a set of Basic and POSIX API components. BASE OS Abtractor provides you a robust and standard OS interface architecture for flexible application development while eliminating the risks associated with selecting an OS and dependency on a single vendor. OS Abtractor makes your application adapt to multiple operating system platforms with a standard OS interface, thereby reducing costs associated with code maintenance and learning multiple operating systems. POSIX OS Abtractor enhances the BASE OS Abtractor standard OS interface architecture with the addition of optimized non-proprietary and industry standard POSIX APIs to leverage re-usable open source POSIX/Linux code in your design.

OS CHANGER®

Keep Your Code - Change Your OS

Porting software from one OS to another OS is difficult and consumes development time that could be used for building the application. The OS Changer family of products gives users the freedom to switch operating systems while leveraging on their existing code and knowledge base to protect their software investment.

OS PAL™

Eclipse-based Code Migration and Optimization Tool

With OS Porting and Abstraction Lab (OS PAL) you can easily port, abstract and optimize your code on a host machine and run the application on different target platforms. OS PAL leverages the existing OS Changer and OS Abtractor technologies while adding advanced code optimization capabilities on multiple OS environments. OS PAL provides users an easy-to-use graphical user interface that is integrated with the Eclipse® based CDT environment. With OS PAL users can produce optimized code that enables new or legacy applications to run on multiple operating systems. OS PAL also simulates various RTOS interfaces under host development environments enabling users to develop embedded code with legacy APIs and without the target hardware.

MapuSoft Custom Services

- Provide full porting, integration and validation services
- Extend OS Changer APIs and/or add compliance to a new OS to meet your custom needs
- Migrate in-house abstraction to OS Abtractor framework
- Add OS Abtractor support to your proprietary operating system
- Offer on-site and off-site training on operating systems and advanced porting techniques

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BENEFITS:

- Protects software investment and eliminates OS vendor dependency by enabling efficient software re-use across multiple platforms
- Minimizes the learning curve of a new OS through the use of one set intuitive & flexible APIs across multiple OS
- Eliminates time consuming manual updates to applications when upgrading to newer versions of OS
- Enhances performance and reduces memory footprint
 - Maximizes use of compile-time translations
 - Maximizes use of low-level OS functions
 - Zero data copy of messages - BASE OS Abtractor API
 - Static allocation of control blocks
 - Scalability at component & feature levels
 - Provides Task Pooling feature to reuse task envelopes
- Provides advanced development features
 - Real-time enhancements and other OS features
 - Process features enable independent development of complex and multiple applications
 - Dynamic application reconfiguration and restart
- Provides an industry standard interface for your proprietary OS

BENEFITS:

- Easily and quickly switch to a lower cost or open-source OS
- Protect your software investment by re-using your legacy code on new platforms
- Use familiar APIs to develop new applications and eliminate the learning curve on the new OS
- Reduce time to market by migrating to different platforms quickly and easily
- Split legacy code into multiple processes or individual applications to reduce complexity and add protection
- Requires very low memory footprint

BENEFITS:

- OS PAL provides various OS APIs such as VxWorks®, pSOS® POSIX and Nucleus® on host development environments enabling development and porting of embedded code without the target hardware
- BASE OS Abtractor APIs are available to provide a standard real-time OS interface architecture for developing new and highly portable applications
- POSIX OS Abtractor APIs is available to leverage re-usable open source Linux/POSIX code to efficiently add feature-rich services in a cost effective manner
- OS PAL's state-of-the-art Eclipse based IDE offers seamless integration into existing development flows enabling a high degree of usability and productivity
- OS PAL reads application source code to determine the services used by your application and produces OS specific interface code optimized for your specific application and for each target OS platform
- The OS PAL Profiler feature enables API data collection to provide feedback concerning the utilization of MapuSoft's APIs in the project for performance impact analysis

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