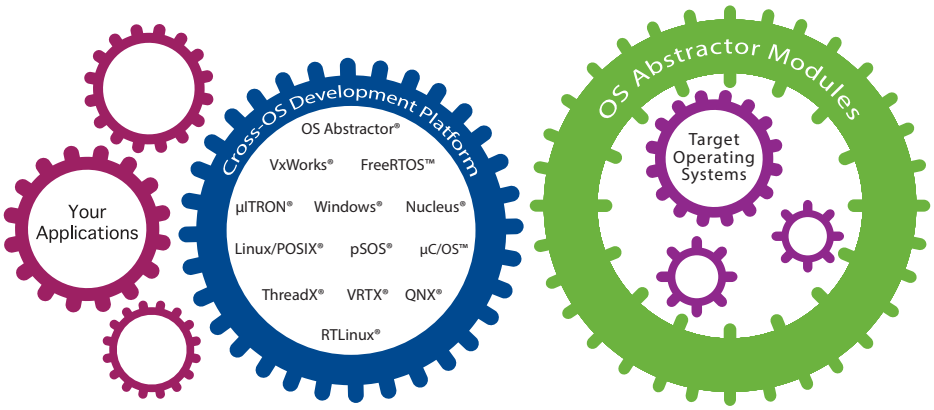
Cross-OS®
Development Platform

Overview Datasheet

Develop Once to Deploy on Multiple Platforms with Ease.

Cross-OS Development Platform is a C/C++ source-level virtualization technology that provides a robust and industry standard architecture for flexible real-time application development, while allowing the user to protect the software from being locked to one OS. This negates future porting issues because the software will support multiple operating systems and versions from the beginning. It also eliminates the risk associated with the OS selection process, since the same application can be tested on multiple platforms for comparison and won't be tied to the chosen OS.



CROSS-OS DEVELOPMENT PLATFORM ADVANTAGES

- One-of-kind, real-time application development environment where application code will never be locked to the existing OS or platform
- Reduces cost associated with code maintenance across multiple OS platforms
- Supports many popular and industry standard API interfaces for code development
- Provides optimized Cross-OS target code generation features to enable the code to run on many OS's
- Eliminates time consuming manual updates to applications when upgrading
- Allows for host based development to avoid buying expensive target tools and hardware
- Includes a Profiler to identify performance bottlenecks and a target code Optimizer to enhance performance
- Easily connects to your in-house abstraction solution to extend your abstraction features and to support more target operating systems
- Easily connects to your in-house target OS to provide access to the Cross-OS Interfaces for development

CROSS-OS DEVELOPMENT PLATFORM - DEVELOPMENT ENVIRONMENT

Cross-OS Development Platform is integrated within MapuSoft's development environment - Application Common Operating Environment (AppCOE). AppCOE is an eclipse based IDE for development, porting, virtualization, simulation and testing of applications developed in C, C++ and Ada. All MapuSoft tools are provided with full source code and royalty free.

CROSS OS DEVELOPMENT PLATFORM INTERFACE OPTIONS

Cross-OS Development Platform provides the ability to develop portable applications using the Interface options below. Developers also have the ability to choose multiple Interfaces for use within the same application and existing applications can connect to the appropriate Interface for rehosting on a different OS.

> OS ABSTRACTOR INTERFACE

Is Mapusoft's generic and simple to use API with powerful OS features for developing portable applications.

- You can find a list of supported OS Abstractor APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/Release_Notes-OS-Abstractor-APIs.pdf

> LINUX/POSIX INTERFACE

provides a non-proprietary and industry standard POSIX API for application development across multiple versions and variants of Linux/POSIX.

- You can find a list of supported Linux/POSIX APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/Release_Notes-POSIX-APIs.pdf

> micro-ITRON INTERFACE

provides popular micro-ITRON 4.0 Japanese industry standard OS interface architecture for flexible application development and re-use of micro-ITRON based applications across multiple OS platforms.

- You can find a list of supported micro-ITRON APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/release_notes-micro-ITRON-APIs.pdf

> VxWorks INTERFACE

provides de-facto industry-standard VxWorks API for flexible application development and re-use of VxWorks based applications across multiple OS platforms.

- You can find a list of supported VxWorks APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/Release_Notes-VxWorks-APIs.pdf

> Windows INTERFACE

provides popular win32 API for flexible application development and re-use of win32 based applications across multiple OS platforms.

- You can find a list of supported Win32 APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/Release_Notes-Windows-APIs.pdf

> FreeRTOS INTERFACE

provides popular FreeRTOS API for flexible application development and re-use of FreeRTOS based applications across multiple OS platforms.

- You can find a list of supported FreeRTOS APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/Release_Notes-FreeRTOS -APIs.pdf

> ThreadX INTERFACE

provides popular ThreadX API for flexible application development and re-use of ThreadX based applications across multiple OS platforms.

- You can find a list of supported ThreadX APIs here:
  http://www.mapusoft.com/wp-content/uploads/documents/release_notes-threadx-APIs.pdf

> Nucleus INTERFACE

provides popular Nucleus API for flexible application development and re-use of Nucleus based applications across multiple OS platforms.

- You can find a list of supported Nucleus APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/Release_Notes-Nucleus-APIs.pdf

> µC/OS INTERFACE

provides popular µC/OS API for flexible application development and re-use of µC/OS based applications across multiple OS platforms.

- You can find a list of supported µC/OS APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/Release_Notes- uC/OS -APIs.pdf

> pSOS INTERFACE

provides pSOS API for flexible application development and re-use of pSOS based applications across multiple OS platforms.

- You can find a list of supported pSOS APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/Release_Notes-pSOS-APIs.pdf

> VRTX INTERFACE

provides popular VRTX API for flexible application development and re-use of VRTX based applications across multiple OS platforms.

- You can find a list of supported VRTX APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/Release_Notes- VRTX-APIs.pdf

> QNX INTERFACE

provides QNX API for flexible application development and re-use of QNX based applications across multiple OS platforms.

- You can find a list of supported QNX APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/Release_Notes-QNX-APIs.pdf

> RTLinux INTERFACE

provides RTLinux API for flexible application development and re-use of RTLinux based applications across multiple OS platforms.

- You can find a list of supported RTLinux APIs here:
  http://www.mapusoft.com//wp-content/uploads/documents/Release_Notes-RTLinux-APIs.pdf

Relevant Links:

- A free evaluation can be downloaded here:
  http://mapusoft.com/downloads/
- For user manual & technical documentation visit this link:
  http://www.mapusoft.com/techdata/
- For any technical or sales questions please submit a ticket at the MapuSoft support site at this link:
  http://mapusoft.com/support/

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