

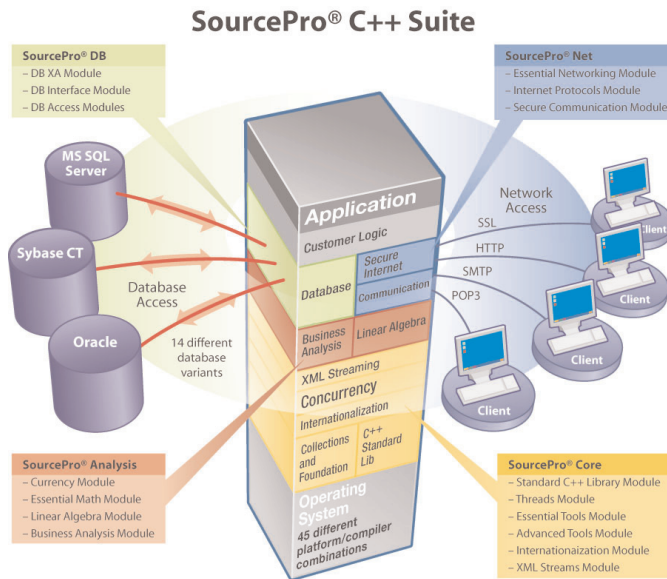


ROGUE WAVE® SOURCEPRO® CORE

OLD WAVE. NEW WAVE. ROGUE WAVE.

SOURCEPRO® C++

The most trusted foundation to build enterprise C++ applications, Rogue Wave® SourcePro® C++ is a set of C++ libraries and integrated, cross-platform components that provide the basic building blocks to create or extend applications. The set of four SourcePro® components is: SourcePro® Core, SourcePro® DB, SourcePro® Net, and SourcePro® Analysis.



Client: SRD, Software Provider

Challenge: To increase the cross-platform offerings of its leading-edge identity recognition and relationship awareness software solutions, ERIK™, NORA™ and ANNA™, in order to maintain its competitive advantage and increase revenue.

Solutions: SRD embedded Rogue Wave SourcePro® Core and SourcePro® DB in its software to provide high-performance, cross-database reusable components to its customers and facilitate support for multiple platforms and databases.

Benefits:

- Quickly and easily port to new hardware and database platforms
- Increase developer productivity through the reuse of best-of-breed C++ components
- Ease-of-use enable developers to focus on the business logic of the software to further enhance its capabilities

SOURCEPRO® CORE

SourcePro® Core contains an extensive set of fundamental and advanced C++ components that handle many of the intricacies of the C++ language and provides a complete framework for internationalization and localization of applications targeted for the global market. By simplifying the complexities of working with XML, SourcePro Core helps developers create C++ applications that share data with diverse systems.



A QUOVADIX DIVISION

SOURCEPRO® CORE CONSISTS OF SIX MODULES:

THE STANDARD C++ LIBRARY MODULE is a complete implementation of the International Standard for the C++ Programming Language, ratified by the American National Standards Institute (ANSI) and the International Standards Organization (ISO). Rogue Wave has played an active role in the ANSI/ISO committee for the standardization of C++, and leading vendors like Sun and Hewlett-Packard ship our implementation of the ANSI Standard C++ Library with their C++ compilers.

The Standard C++ Library Module provides a variety of containers plus generic algorithms for performing operations on the Standard containers. Allocators help handle memory management of container class objects, while string support includes a template of a string class to manipulate 8-bit ASCII characters and other types (such as 16-bit wide characters). And, the numeric limits class provides an organized mechanism for describing the characteristics of the fundamental types provided in the execution environment.

THE ESSENTIAL TOOLS MODULE offers an internationalized set of more than 130 fundamental C++ components that are useful in virtually any type of C++ application. The classes in the Essential Tools Module provide consistent, intuitive APIs to shorten the learning curve, helping developers maximize productivity

Designed to provide a less error-prone, easier-to-use interface to the underlying ANSI Standard C++ Library implementation, the Essential Tools Module further insulates developers from the complexities of ANSI Standard C++ without any loss of integrity. Plus, the Essential Tools Module offers features beyond those in the ANSI Standard, including classes for handling dates and times.

With the extensive set of collection classes, developers have the flexibility to select the classes that best meet their specific application needs. This module makes it easier for developers to handle single, multi-byte and wide character strings. In addition, the Essential Tools Module supplies extensible virtual streaming classes so that developers can maximize efficiency, portability or both.

THE ADVANCED TOOLS MODULE offers a flexible and intuitive non-intrusive streaming mechanism for complex stream transformations and object serializations, making it possible to stream nearly any C++ class with minimal code changes. In addition, the Advanced Tools Module can interoperate with the virtual streaming classes in the Essential Tools Module as needed. And, the module's flexible thread-safety alternatives allow developers to control the level of thread safety for each stream within an application, helping them maximize performance.

THE INTERNATIONALIZATION MODULE provides a complete framework for internationalization and localization, enabling rapid development of applications targeted for global markets. The module's extensive support for Unicode string processing, locale-sensitive handling of regular expressions, searching, collation, boundary analysis, normalization, and tokenizing provides the foundation for all application internationalization needs. With the Internationalization Module, developers can write a single application that can meet the needs of many different cultures. When executed, the application will be able to process times, dates, strings and currency in the native format.

THE XML STREAMS MODULE builds on the Advanced Tools Module, enabling C++ data to be written to or read from an XML stream. Developers can turn instances of C++ classes into XML without writing XML streaming code, making it easier to integrate existing C++ code into systems that use XML to communicate. In addition, the XML Streams Module adds in-stream transformation, making it easier to apply XML transformations and stream data in one operation.

SourcePro Core provides support for 45 different platforms and compiler combinations.

"Since 1997, Providence has used Rogue Wave® components to meet its cross-platform needs. The reason why we continue to choose Rogue Wave Software is because they provide a robust technical solution that supports our business goals. Undoubtedly, the Rogue Wave solution is tried and true."

Don Hames
President and CEO
Providence Software Solutions, Inc.

THE THREADS MODULE offers a complete set of C++ components designed to help developers quickly create high-performance multithreaded applications. The Threads Module provides a higher-level, object-oriented API that hides many of the complexities of multithreading in C++, insulating developers from the granular task of dealing with the native C threading library implementations.

The Threads Module provides classes to handle fundamental tasks like creating, manipulating, synchronizing and deleting threads. In addition, the Threads Module goes beyond the basic threading functionality offered by native C threading libraries.

One example of this advanced threading functionality is the implementations of proven multithreading design patterns like IOUs, server pools and producer/consumer queues. Another advantage is the functor classes, which allow developers to retrofit existing single-threaded applications rather than starting from scratch. In addition, the efficient and flexible execution tracing facility makes it easier to identify the source of errors in applications and to monitor a running system to diagnose problems.

SUPPORTED PLATFORMS FOR SOURCEPRO® C++

OPERATING SYSTEMS	COMPILER
Microsoft® Windows®	Microsoft® Visual C++®, Intel® C++ Compiler
Sun Solaris™	SunONE™ Studio, Sun Forte™ Compiler, gcc
HP HP-UX	HP aCC
Red Hat® Enterprise Linux	GNU gcc, Intel C++ Compiler
SuSE® Enterprise Linux	GNU gcc
IBM® AIX®	IBM® Visual Age®/XLC C++

Some SourcePro Core Modules are supported on a subset of these platforms. Please contact your account representative for the latest information on platform support.

ROGUE WAVE® SOURCEPRO® CORE

FEATURES	BENEFITS
Consistent and intuitive API across supported platforms	Applications run on multiple operating systems, with minimal code changes.
Higher-level, object-oriented interface to complex underlying APIs	Handles many of the intricacies of the C++ language so developers can focus on solving business problems.
Robust and complete implementation of the ANSI/ISO Standard C++ Library specification	Extensible interface to the powerful facilities of the C++ language.
Extends the ANSI Standard C++ Library with additional functionality	Easier for developers to manipulate features like dates and times in their applications.
Complete set of string processing classes	An easier and less error-prone way to work with single, multibyte, and wide character strings.
Multiple, extensive sets of collection classes	Developers have the flexibility to select the classes that best meet their specific needs.
Variety of extensible virtual stream classes	Developers can choose to maximize efficiency, portability, or both.
Non-intrusive streaming mechanism	Intuitive API makes it possible to stream nearly any C++ class with minimal code changes.
Enables C++ data to be written to or read from an XML stream	Easier to integrate functionality that uses XML to communicate into existing C++ applications, and adds in-stream transformation, enabling developers to easily apply XML transformations and stream data in one operation.
Complete, Unicode-based framework for internationalizing and localizing C++ applications	Enables rapid development of applications targeted for global markets.
Advanced threading abstractions like IOUs, server pools, and producer/consumer queues	Extends the basic threading functionality, giving developers an added advantage when creating multithreaded applications.
Efficient and flexible execution tracing facility	Easier for developers to identify the source of errors in applications.
Functor classes for retrofitting existing single-threaded applications	Developers can improve the performance of an existing application rather than starting from scratch.
C++ encapsulations of key multithreading concepts such as thread creation, control and synchronization	Insulates developers from the low-level complexities of dealing with the native C threading library implementations.

For more information on Rogue Wave SourcePro® C++ Products, go to:
www.roguewave.com/products/sourcepro

