



# VERIX DEVELOPER TOOLKIT

## POWERFUL OPEN TOOLS SPEED DEVELOPMENT OF APPLICATIONS FOR VERIX-BASED TERMINALS

**THE VERIFONE VERIX DEVELOPER TOOLKIT** provides everything you need to transform concepts and designs into high-quality payment and payment-related applications — and get them to market faster and more cost-effectively. Grouped into two segments — a standard third-party compiler and a comprehensive developers package — the Verix Developer Toolkit offers a full collection of tools and utilities that streamline the design, development and testing of applications for VeriFone's Verix-based terminals.

### CROSS COMPILER AND DEBUGGER

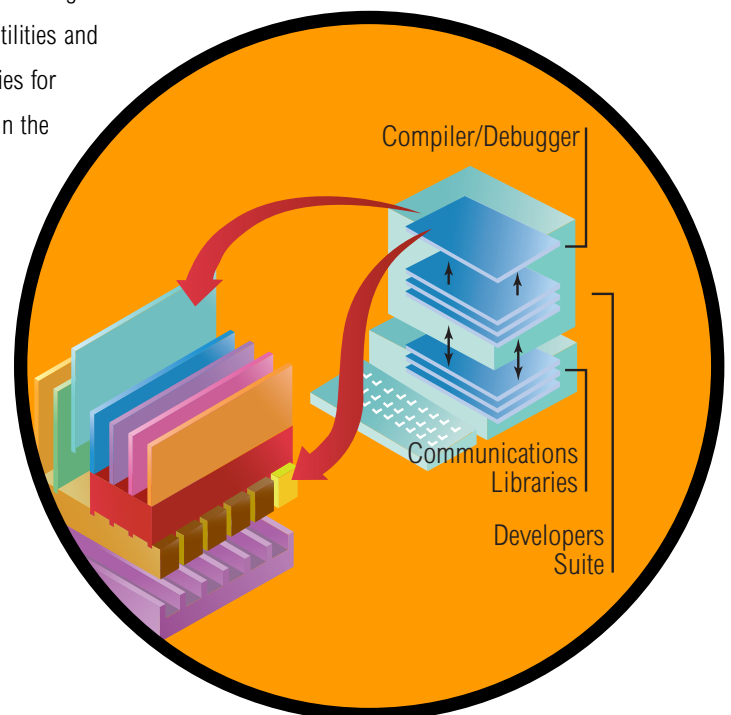
The standard third-party cross compiler and debugger compiles developed programs for downloading to a terminal.

### VERIX DEVELOPMENT PACKAGE

The Verix Development Package provides programmers the convenience of working in the familiar Visual C/C++ environment, while leveraging a wide range of useful tools, utilities and libraries. VeriFone has included software installation utilities, a set of libraries for efficient application development, and a number of powerful tools that aid in the creation and appearance of display information and printer output.

### BENEFITS AT A GLANCE

- Speeds development of high-quality applications for Verix-supported terminals
- Programmers concentrate on high-level customization by streamlining routine tasks
- Reduces time-to-market with the help of familiar, easy-to-learn tools and utilities
- Simplifies testing and debugging



A Development Suite contained within the Package includes the Verix Application Construction Toolkit — VACT — which provides predefined library elements including function calls for efficient event dispatching, screen and keypad management, and communications support. Because VeriFone's SoftPay software has been built using elements from the VACT library, it provides an application framework for creating customized POS applications.

Also included in the Package are TCP/IP and Universal Communication libraries, VeriFone Multi-application Conductor, VeriPrint and Terminal Management Agent, (items which can also be purchased separately for upgrades.)

## FONT GENERATION TOOL

The Development Suite's Font Generation Tool provides the ability to convert images — whether from character-based or picture-based languages — into a format that is compatible with the application being developed. This capability facilitates the development of applications using either Latin-based languages or character-based languages — as well as enables programmers to build logos and other eye-catching graphics into applications. The tool even makes it possible to display animated logos on payment terminals.

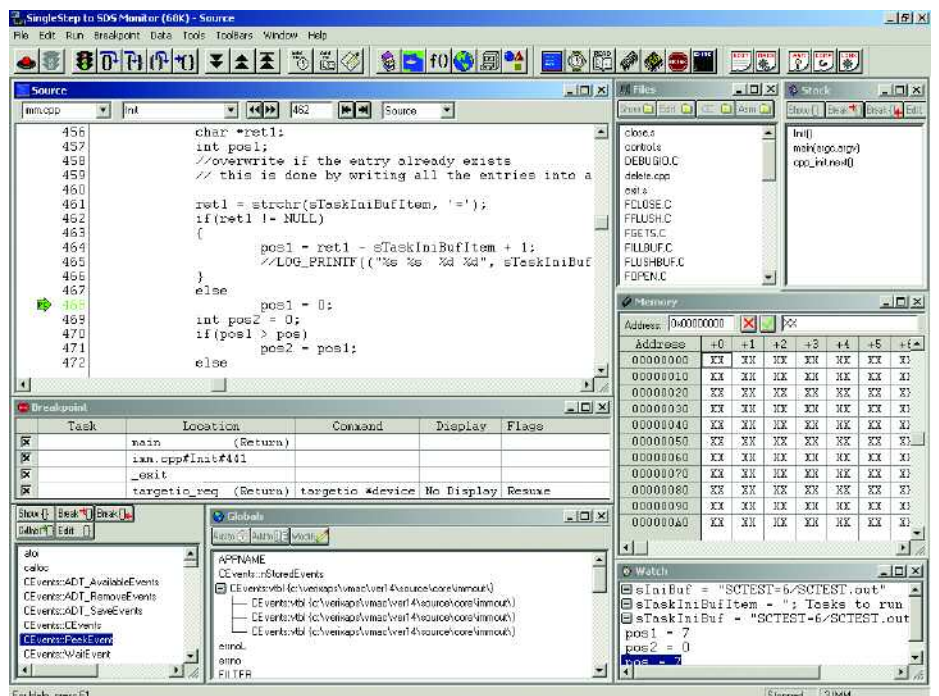
## VERIX DEVELOPMENT SUITE

To further speed development and ensure that end users receive thoroughly tested applications, the Verix Development Suite lets you preview, test and debug payment applications on a PC — before downloading the programs to the terminals.

The Platform Simulator effectively simulates terminal functions on a development PC through a visual representation of the terminal — including display, keypad, function keys and printer. This lets developers create, debug and test terminal applications within the Visual C/C++ integrated development environment (IDE). Using the Platform Simulator, programmers can conduct extensive tests before downloading an application to the terminal for production testing.

The VeriPrint Printer Simulator simulates printer functions on a PC. Applications can be tested for error conditions and performance can be optimized before receipts and reports are printed.

*A highly optimized compiler/debugger that results in proven reliability and flexibility for embedded applications, and interoperability with other development tools, enabling you to immediately gain maximum performance from your investment.*





Finally, the VeriFind Test Automation Tool allows for essential application testing and troubleshooting. The tool allows you to simulate a variety of user actions — such as magnetic-card swipes, keystrokes and smart card inserts — then to combine each sequence into a script that can be repeated many times on a terminal for testing functionality, boundary values, volume, repetitive stress, and regression. You can even use the VeriFind tool to simulate a power failure, printer malfunction or other peripheral operations. Further, the tool's trace capability records the results of each “event” acted on by the terminal. These results can be logged to the development PC for review and analysis.

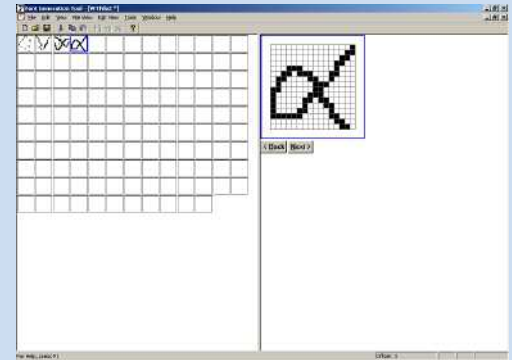
## SAVE TIME AND MONEY

The Verix Developer Toolkit helps you develop high-quality applications in less time and for less money.

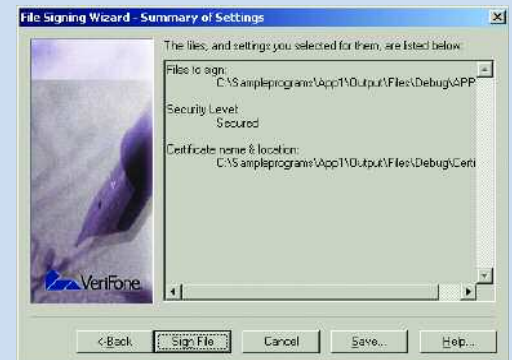
With the Development Package, you can use existing library code as the foundation for new routines and functions. These pretested, C-based modules make programs more consistent, and compact with fewer errors — saving hours of development and testing time and producing smaller, more memory-efficient applications.

With the Development Suite, you can see the results of your work as you go. This helps keep the development process on track and delivers applications on time and on budget. All programs developed using the Verix Developer Toolkit will work across the full range of terminals that support VeriFone's Verix operating system. Using the base code provided in the Development Suite, applications can be ported to different Verix-based terminals — with only minor modifications required to take advantage of system-specific features.

Best of all, the rich set of tools, libraries and other utilities contained in the Verix Developer Toolkit are easy to learn and use.



*The Development Suite's Font Generation Tool is a GUI application that allows application developers to create, edit, and manage display and printer font files and printer logo files into a compatible VeriFone product format.*



*The VeriShield File Signing Tool is your key to unlocking the full benefits of file authentication protection in a multi-application environment. As the sponsoring organization that controls access to a terminal's applications and data, you can use this tool to guard against hackers and competing organizations alike.*



## FEATURES

- Supports development and testing of applications for all Verix-based terminals.
- Offers a comprehensive and familiar framework that simplifies designs and reduces development time.
- Works with the Microsoft C/C++ IDE and Microsoft Developer Studio.
- Includes specialized libraries with pretested software modules for event management, dialog services, and other routines and functions.
- Helps programmers create applications incorporating a wide range of fonts, including programs that use character-based and picture-based languages.
- Provides visual, PC-based representations of content and resources to streamline editing.
- Allows extensive modeling and testing through the use of powerful terminal and printer simulators.
- Assists in generating and checking test scripts for payment and payment-related applications.

## SPECIFICATIONS

### Hardware

IBM or IBM-compatible PC

166 MHz Pentium processor  
(200 MHz or faster recommended)

16 Mbytes of free RAM  
(32 Mbytes recommended)

CD-ROM drive

15-inch monitor with support for 1024 x 768 resolution  
(17 inch monitor recommended)

### Software

Microsoft Windows 95, 98, 2000 and XP, or NT 4.0,

Microsoft Visual C++, version 6.0 or later

WinZip utility, version 7.0 or later