Secure your applications with Sentinel SuperPro and protect your valuable intellectual property and license revenues

Benefits

Performance

• Specialized cryptographic electronics offload processing from the host system

Security

• FIPS 140-2 level 3 validated

• Tamper-protected environment

Easy Management

• Graphic User Interface

• Command Line Interface

• In-field secure

• firmware upgrade

• Remote management on network HSMs

Trusted Protection against Piracy

Over 40 million licenses worldwide are protected by SafeNet Sentinel hardware keys. Sentinel has been setting the standard for software protection since 1984 and secures more clients worldwide than any other key.

Secure your applications with Sentinel SuperPro hardware keys and protect your valuable intellectual property and license revenues. Effective software protection should be more advanced than the most sophisticated hacking techniques today. SafeNet continually updates SuperPro to combat emerging hacking threats.

Secure Hacking Protection with the AES Algorithm*

SuperPro allows you to use the Advanced Encryption Standard (AES) to secure your applications. Support for the AES-based algorithm engine enables use of this industry leading algorithm to generate unique query/responses. AES fortifies your defenses against today's most common hacking threats such as device emulation. This results in an extremely secure query/response mechanism. Additionally, every SuperPro token uses AES with a unique key to encrypt the data memory.

SuperPro Keys also prevent brute force attacks through password counters for write, overwrite and activation passwords.*

Virtualization Protection

SuperPro provides protection against technologies that can enable users to cheat their licensing agreements through virtualization. For example, USB or parallel port sharing devices as well as virtualization products in which multiple instances of your application attempt to directly access one dongle. SuperPro enforces virtualization protection by enabling only one driver to communicate with the token at a time.

Secure Messaging Encryption

SuperPro Keys create an end-to-end secured session between the application and the token for providing secure private communication. The communication packets between your application and the dongle are encrypted using the AES algorithm for maximum protection against the following types of attacks: record/playback attacks, driver emulation attacks, middle layer key communication attacks, and brute force attacks.

Easy to Implement

Sentinel CodeCover offers a way to quickly add protection and obfuscation to your application without requiring any custom programming or alteration to the source code.

To implement more advanced security and license models, integrate the hardware key with your application using the Sentinel SuperPro APIs. We provide sample code for the most popular application development environments such as Microsoft .NET, Microsoft Visual C++, and Microsoft Visual Basic to get you started on custom applications.

Prevent Tampering with Sentinel CodeCover

When using Sentinel CodeCover in conjunction with API level implementations, you can be assured your software has the highest possible level of software protection available. CodeCover puts protective wrappers around your application that guard it from unauthorized access. The multi-layer architecture

of CodeCover increases security by forcing hackers to break each subsequent layer, making hacking cost prohibitive. CodeCover also provides protection against debuggers, reverse engineering, memory dumping, and disassembling.

Extensive Code Protection along with Copy Protection

CodeCover also enables you to encrypt important code fragments, constants, and plain strings in order to protect your intellectual property (IP) from being copied or modified.

For example, CodeCover provides you the assurance that proprietary IP, such as unique algorithms, can be distributed without risk of being extracted and copied. Valuable code sections remain encrypted at all times, while resident on the disk as well as while executing. You can be assured that important code fragments cannot be tampered with, protecting the reliability and security of your application.

Easily Update Tokens in the Field

With Sentinel SuperPro field activation, you can easily offer trial versions of your software, then remotely update to fully licensed products. Field activation also allows you to increase demo limits and provide access to additional features without shipping new keys or visiting your customers' sites.

Integrated USB and Parallel Port Support

SafeNet enables you to provide options for end users by supporting a variety of form factors. Sentinel SuperPro is available in both USB and parallel port (ISA or add-on PCI adapter cards) hardware keys with the same program library. SafeNet also offers the industry's only low-profile key to combat the problem of security hardware breaking when users place a laptop into a carrying case.

One Programming Effort to Secure Multiple Platforms

Support your application on multiple operating platforms with a single development effort. Use the Sentinel SuperPro USB key to secure your applications running on Windows, Linux or Macintosh. Use the Sentinel SuperPro parallel port key to secure applications running on Windows, Unix, and Linux.

License Models That Suit Your Needs

Licensing flexibility provided by SuperPro allows you to tailor your security and license designs to reach new markets, leading to increased revenue. Available options include evaluation, feature-based, and pay-per-use.

The network version of Sentinel SuperPro protects client-server applications/development and provides server monitoring to track license usage on the network.

Flexible License Administration

SuperPro keys empower network administrators to monitor licenses on a LAN or WAN with web-based license monitoring. Network administrators can also cancel licenses in order to redistribute among users or revoke idle licenses. This provides administrators with the ability to control optimal license use across the enterprise. Additionally, license sharing can be enabled with SuperPro to allow users to run multiple instances of an application on the same computer.

Environmentally Friendly and Increased Memory Available

SafeNet was first to ship software protection keys that are compliant with the Restriction of Hazardous Substances (RoHS) and Waste of Electrical and Electronic Equipment (WEEE) directives. Optional increased memory, with a total of 256 cells, is also available for implementation flexibility and scalability.

*Does not currently apply all tokens. Contact a SafeNet sales representative to determine whether your tokens can take advantage of these features today.

Technical Specifications

Minimum System Requirements
- Pentium II or above (450 MHz or above)
- VGA Monitor with 1024 x 768 resolution(1152 x 864 resolution)
- 290 MB free hard disk space
- CD-ROM Drive
- 64 MB RAM
- A USB port or a parallel port to attach the hardware key
- Windows 98SE/ME/ 2000/XP(32-bit and x64)/Server 2003 (32-bit and x64)/Vista(32-bit and x64)

Cross Platform (Network) Support
- Windows 98SE/ME/ 2000/XP(32-bit and x64)/Server 2003 (32-bit and x64)/Vista(32-bit and x64)

Unix/Linux
- Red Hat 9.0 (kernel version 2.4.20, 2.6.9, and 2.6.10 smp/non-smp)
- Red Hat Linux Enterprise 3.0, 4.0, & 5.0
- Fedora Core 4 & 5
- SuSE Linux 8.2, 9.0, 9.1, 9.2, & 10.2
- FreeBSD 5.0(non-smp)

Standalone (Driver, Library and Server/Service1) Support
- Macintosh OS X (10.2, 10.3, 10.4 and 10.5)
- Sun Solaris 7, 8, & 9

Supported Compilers
Windows
- Autodesk AutoCAD 2002, 2004, 2007, 2008 and 2009
- Borland C++Builder 5.0 & 6.0
- Borland Delphi 5.0 , 6.0 and 7.0
- FORTRAN (Compaq Visual)
- Java2SE SDK 1.4+
- Microsoft Visual Basic 6.0
- Microsoft Visual C/C++ 6.0
- Microsoft COM Interface (MS Visual Studio 6.0 IDE or higher)
- .NET-VB.NET, C# (MS Visual Studio 7.0 and 8.0 IDE)
- Visual Foxpro 6.0 and 7.0
- MinGW32 5.0.2
- WinDev 11.0

UNIX/Linux
- Borland Kylix 2.0+
- GNU Project C and C++ compiler (gcc-3.2.2)
- Java2SE SDK 1.5+

Macintosh
- GNU CC compiler 4.0
- Xcode 2.5/3.0
- Metrowerks CodeWarrior 10.0
- Macromedia Director MX 2004

Please contact us if you don't see your platform or compiler listed.
[1] TCP/IP, IPX or NETBEUI is required to support the network version of SuperPro: SuperProNet.

SafeNet
The Foundation of Information Security

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