

## Benefits

### Easy to Use

Advanced developer tools simplify the creation and management of security and license designs

### Fast Deployment

Business Layer API framework reduces implementation time by up to 60% or more

### Enhanced Security

Features Advanced Encryption Standard (AES), one of the industry's most advanced and recognized public algorithms for encryption. Also offers protection from brute-force attacks and driver replacement.

### Simplified Key Administration

Enables programming of multiple keys at once

### Secure Distribution

Securely push fulfillment out to channel partners

### Parallel Port Key Support

Multiple form factors, including parallel port and low profile parallel port, are available to improve end-user experiences

### Reliable

Advanced mirroring technology improves quality and reliability

# Sentinel UltraPro

Secure your applications with Sentinel™ UltraPro hardware keys and protect your valuable intellectual property and license revenues.

## Trusted Protection Against Piracy

Over 35 million applications 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.

## Protect and Increase Revenue

Sentinel UltraPro keys protect against revenue leakage so you receive fair compensation for your software development. Use of the AES public algorithm protects against hacking and further defense is provided against driver replacement and debugging tools. UltraPro also thwarts record and playback hacks through the auto-generation of large query tables.

Licensing flexibility provided by UltraPro allows you to reach new markets, leading to increased revenue. A range of features, such as Business Layer APIs™, speed development time, allowing you to reduce costs and quickly respond to customer needs.

## Integrated USB and Parallel Port Support

SafeNet realizes the importance of application developers providing options for end-users and continues to support a variety of form factors. Sentinel UltraPro is available in both USB and parallel port (ISA or add-on PCI adapter cards) hardware keys with the same program library. USB keys offer plug and play installation that is transparent to other system devices. 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.

## Easy and Quick to Implement

Sentinel UltraPro offers several implementation options. For more control over sophisticated license designs, integrate the hardware key with your application using the UltraPro Business Layer APIs. Business Layer APIs are pre-configured, higher level APIs for popular



license models such as subscription, evaluation, or pay-per-use licensing. These tools typically reduce the programming time required to secure a new application by up to 60% or more compared to other hardware key solutions. Reducing and simplifying the required programming steps also improves implementation quality and security.

Licensing can also be implemented with the Sentinel Shell that can wrap your application in minutes, even if you don't have access to source code. In addition to offering a quick implementation option, the Shell can be added to provide another layer of security.

## Multiple Development Environments

UltraPro provides you with the ability to protect applications created in numerous development environments. Sample code for the most popular application development environments is also provided, such as Microsoft .NET, Microsoft Visual C++ and Microsoft Visual Basic to get you started on custom applications.

## License Models That Suit Your Needs

Licensing flexibility provided by UltraPro allows you to tailor your product offerings to reach new markets, leading to increased revenue. Available options include:

License Type	Description
Evaluation	Supports trial evaluations for a set number of days
Feature-Based	Licensing based on individual features or bundles of features
Pay-Per-Use	Enables billing based on product usage
Standalone	Allows you to license a specific machine
Network	Licenses and their usage are managed by a central server



"One of the benefits MultiMedia Dental Systems realized from Sentinel hardware keys was increasing speed in our time to market. It was extremely fast to implement: a no-brainer. As for a reduction in piracy and increase in revenue, I can't say with certainty that our software was pirated, but I can guarantee that it's not now!"

— Jim Oswell  
Executive Vice President, Chief Software Architect, MultiMedia Dental Systems



## Multiple Activation Options

Licenses can be delivered to your customer via fax or phone and can also be automatically emailed. One hardware key can be used to securely protect multiple applications, and to allow remote updates, as well as the activation of "suites" of features.

UltraPro includes functionality to increase demo limits, upgrade demos to fully licensed applications and provide access to specific features without shipping a new key or visiting your customer's site.

## One Programming Effort — Multiple Utility

UltraPro enables developers to program multiple keys at once and to customize license models at the production stage. License configuration can be altered without requiring further development changes. Your order administration department can alter licenses at fulfillment, allowing you to offer a variety of licenses based on only one development effort.

In addition, you can securely assign the fulfillment and upgrade of your keys to your distributor or reseller. The Key Manager provides the framework for planned future enhancements including license tracking, upgrade management, inventory tracking and billing. With UltraPro you can support your application on multiple operating platforms with a single development effort, further reducing development time and cost. Advanced mirroring technology ensures an exceptionally high level of reliability by self-correcting any errors in communication to the key.

## Flexible License Administration

UltraPro keys empower network administrators to 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. License sharing is also enabled with UltraPro to allow users to run multiple instances of an application on the same computer.

## Secure Applications on the Network

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

## Environmentally Friendly and Increased Memory Available

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

## Multiple Languages

Sentinel UltraPro is localized for Chinese, French, German, Japanese, and Russian.



## Technical Specifications

### Programmable Memory

UltraPro 112 bytes  
UltraPro XM 464 bytes

### Minimum System Requirements

Pentium II 450MHz  
1024 x 768  
(1152 x 868 recommended)  
70 MB hard disk space  
CD-ROM Drive  
128 MB RAM (256 recommended)  
Windows NT (SP 4)/2000/XP/  
Server 2003  
Java 2 Runtime Environment  
version 1.4 or higher  
Web Browser  
PDF File Viewer

### Cross Platform Support

Red Hat LINUX  
Windows 9x/NT/2000/XP  
(Client Library only)  
Macintosh OSX 10.2.x

### Supported Compilers

Borland C++Builder 5.0 and 6.0  
Borland Delphi 5.0 & 6.0  
COM Object VC 6.0  
JAVa2SE SDK 1.4  
Microsoft Visual C++ 6.0  
Microsoft Visual Basic 6.0  
Microsoft .NET  
Metrowerks CodeWarrior 3.0

### Form Factors

USB  
Parallel Port  
Low Profile Parallel Port 797

### Certifications:

The Sentinel UltraPro USB driver is Windows Hardware Quality Labs certified for Windows 2000 and Windows XP (32-bit)

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