

# Sentinel UltraPro Version 1.0.0 (Windows) Release Notes

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This document contains product features and installation details for Sentinel™ UltraPro™ version 1.0.0.

## Overview

Sentinel UltraPro is a hardware-based anti-piracy and licensing solution for your applications. The heart of the solution is in an encryption-based hardware key that also has read/write memory. In addition to protecting your software, it helps you in distributing your software in various revenue generating forms, like demos, try-and-buy, lease, full-featured versions and so on.

## Sentinel UltraPro Highlights

This section contains highlights of the Sentinel UltraPro version 1.0.0 release. For complete details, refer to the UltraPro Toolkit Help or the *Sentinel UltraPro Developer's Guide*.

### The Sentinel UltraPro Components

The Sentinel UltraPro protection system consists of a *state-of-the-art* SDK for protecting your applications. Given below is a brief description of its major components:

#### List of the Sentinel UltraPro Components

Component Name	Description
<b>Sentinel UltraPro Key</b>	This release supports Sentinel UltraPro keys—the latest entrant in the Sentinel family of keys. The UltraPro key is powered by the next-generation hardware technology and are available in bigger memory sizes. The key can be programmed with variety of data, including encryption algorithms, passwords, integers, strings, Boolean, and counters.

### List of the Sentinel UltraPro Components (Continued)

Component Name	Description
<b>Sentinel UltraPro Toolkit</b>	<p>The UltraPro Toolkit is used for preparing protection strategies and programming keys. It provides easy project management and quick turnarounds for your software. It consists of the following four screens:</p> <ul style="list-style-type: none"> <li>❑ <b>Quick Shell:</b> Quickly protect an executable! It is also an easy way to get started with Sentinel UltraPro.</li> <li>❑ <b>Protection Manager:</b> Create and prototype your application protection strategies.</li> <li>❑ <b>Key Manager:</b> Program keys and generate license codes using the protection strategy you prepared.</li> <li>❑ <b>API Explorer:</b> Evaluate the UltraPro API functions before adding them into your application's source code.</li> </ul>
<b>Sentinel System Driver</b>	<p>Sentinel System Driver is the device driver for Sentinel keys. It is supported on the following platforms: Windows 98/ME/2000/XP/Server 2003/NT (Sentinel USB driver is not supported on Windows NT 4.0).</p>
<b>Sentinel Protection Server</b>	<p>Sentinel Protection Server is the license manager of your networked applications. It manages the licensing needs of the protected applications that concurrently access the keys attached in the network.</p> <p>The Sentinel Protection Server is supported on the following platforms: Windows NT/2000/XP/Server 2003 and Novell NetWare (version 4.2 and 5.0). It supports the NetBEUI, TCP/IP, IPX and HTTP protocols. The Sentinel Protection Server for Novell NetWare allows access via TCP/IP, IPX, and SAP. The HTTP protocol is used for fulfilling the Sentinel License Monitor requests from the clients on LAN/WAN. via a Web browser (Internet Explorer 5.0 or higher or NetScape Navigator 4.6 or higher).</p>
<b>The Field Activation Methods</b>	<p>Sentinel UltraPro provides you two field activation methods for Windows: Sentinel Client Activator and the Field Activation Utility. Using them, you can remotely activate applications, increase demo limits, upgrade demos to fully-licensed versions and so on—all without having to ship a new hardware key, provide additional software or visit the customer's site.</p>
<b>Sentinel Protection Installer</b>	<p>Sentinel Protection Installer is an integrated installer of the Sentinel Driver and Sentinel Protection Server. It is typically meant for deploying these redistributables on a customer's computer.</p>

## Built-in Project Management

The UltraPro Toolkit follows the 3-tier *project-design-element* hierarchy which lets you effortlessly manage, share and reuse your protection strategies. A project is on the top-most level and can contain one or many designs. A key is programmed with a single design made up of several protection elements.

## UltraPro API for Quick and Robust Licensing

A comprehensive set of Sentinel UltraPro API is provided to allow a high-level interaction with the key. These API drastically reduce the efforts involved in implementing several popular license models, like leasing your applications. For example, with the Query API functions, you can effortlessly use anti-time tampering measures with query-response based protection.

## Modify License Settings During Key Programming

The license settings—expiration date, execution count, trial days, user limit—can be modified at the time of key programming. This makes strategy designing a *one-time activity*, and you or your distributor can modify the license settings without re-creating a design.

## License Sharing Available

The licenses are shared for a seat (a user running your application on a system). This means that multiple instances of the application running on the same system only count as one license—consuming one hard limit of the key.

If you are using a *user limit* for your keys—a limit lower than the standard hard limit—you can share that on the basis of user name, MAC address or seat.

## Key Manager Application for Your Distributors

You can now allow your distributors to program product keys, configure Sentinel Client Activator and generate license codes—using the separate Key Manager application.

## Configuration File for Your Customers

You can ship a configuration file (*sntlconfig.xml*) to your customers so they can set the protocol, access mode, and heartbeat value on their own.

## Sentinel License Monitor for Monitoring Keys and License Details

The Sentinel Protection Server runs a HTTP thread so that key and licenses details can be viewed via a Web browser.

## Sentinel Client Activator Version 7.1.0 Enhancements

Sentinel Client Activator provides a means to update hardware keys in the field. The following enhancements have been made to it:

- You can now associate Client Activator with a complete design that may consist of Shell or API elements.
- It is available at the key programming stage and can be configured by a developer or the distributor to suit their distinct needs.
- You no longer need to install the Client Activator separately; it is automatically installed by the Toolkit and Key Manager setup program without any additional steps.

## Sentinel System Driver Is WHQL Certified

The Sentinel System Driver for USB keys is Microsoft Windows Hardware Quality Labs (WHQL) certified for Windows 2000, XP and Server 2003.

## Installation

This section contains all the details regarding the Sentinel UltraPro version 1.0.0 installation.

### System Requirements

Note that the following requirements are necessary:

Hardware Requirements	Software Requirements
<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Processor</b> Pentium II or above (450 MHz or above)</li> <li><input type="checkbox"/> <b>Monitor and its Settings</b> VGA Monitor with 1024 x 768 resolution (1152 x 868 recommended)</li> <li><input type="checkbox"/> <b>Hard Disk Space</b> 70 MB free hard disk space</li> <li><input type="checkbox"/> <b>RAM</b> 128 MB RAM (256 MB recommended)</li> <li><input type="checkbox"/> <b>Peripherals</b> A USB port or a parallel port to attach the UltraPro hardware key shipped to you.</li> <li><input type="checkbox"/> <b>Disk Drive</b> CD-ROM drive</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Operating System</b> Windows NT (SP 4)/2000/XP/Server 2003</li> <li><input type="checkbox"/> <b>Java Runtime Environment</b> Java 2 Runtime Environment version 1.4 or higher. A copy of JRE is included in the Sentinel UltraPro CD. You may download the latest version from <a href="http://java.sun.com">http://java.sun.com</a>.</li> <li><input type="checkbox"/> <b>Web Browser</b> Internet Explorer 5.0 or higher to view the Video Tutorials and Online Help.</li> <li><input type="checkbox"/> <b>PDF File Viewer</b> Adobe Acrobat 4.0 or higher to view certain documentation files.</li> </ul>

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**Note: What will be installed on Windows 98 and ME**

This setup will install few components on Windows 98/ME, including Sentinel System Driver, Compiler interfaces, Field Activation module and documentation. The Toolkit and Key Manager applications, Sentinel Protection Server, and Sentinel Client Activator module will not be installed.

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### Installation Instructions

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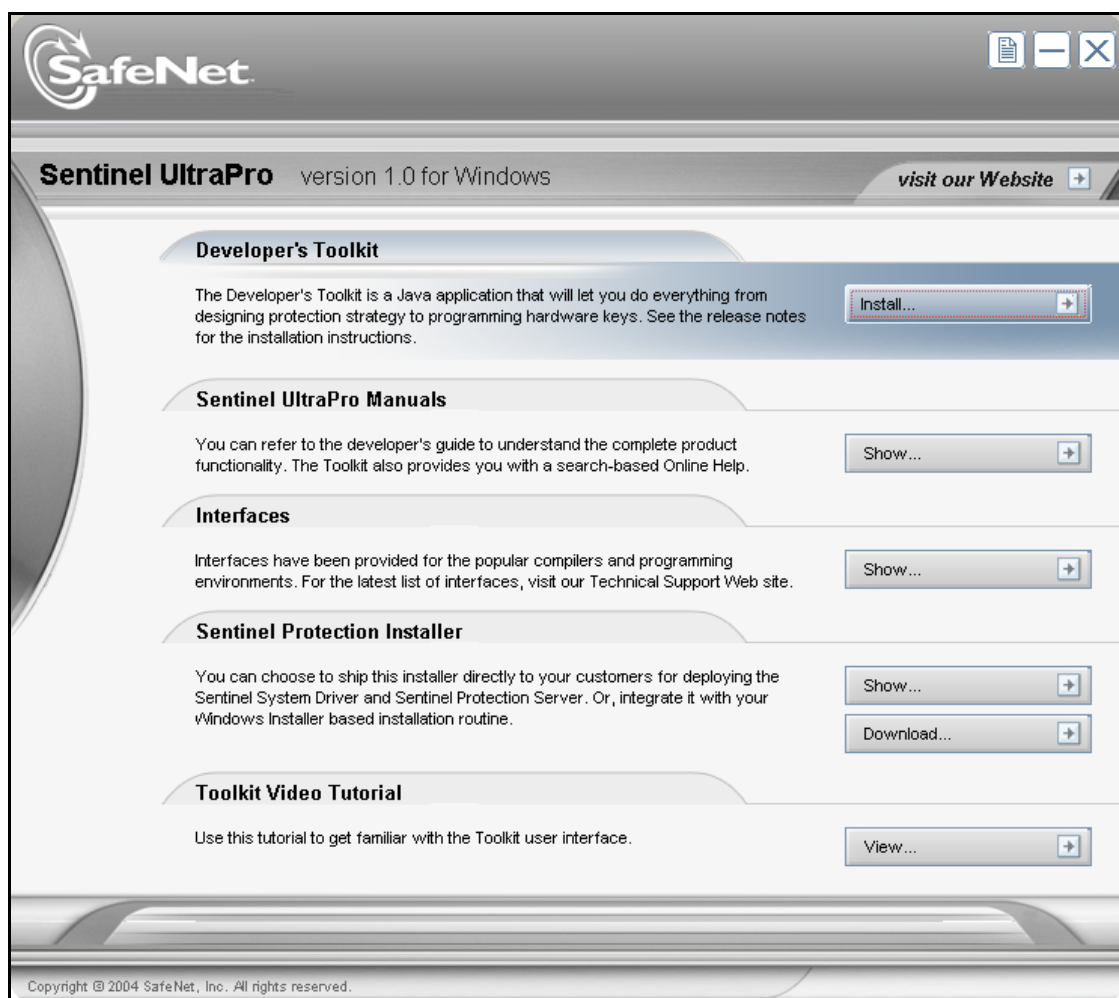
**Note: Administrator privileges required**

In order to set up Sentinel UltraPro, you must have Administrator privileges.

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1. Insert the installation CD in the CD drive.
2. You may need to navigate into the CD if the autorun does not work. Double-click *StartHere.exe*. The **StartHere** screen appears (see picture on the next page).
3. Click the **Install** button to launch the setup program.
4. If Java 2 Runtime Environment version 1.4 is not installed on your system, its installation screen will be shown. This installation may take few minutes. After finishing the JRE installation, you may now install the Toolkit.

If the required version of Java Runtime Environment is already present on the system, you can continue with the Toolkit installation.



### The StartHere.exe Interface

**Note: The installer upgrades the Windows Installer version to 2.0**

Sentinel UltraPro installation requires Windows Installer version 2.0 or higher on the target system. If a lower version is found, the installer will inform the user and upgrade automatically. If you are not sure you want to update the Windows Installer, do not run this program.

5. If a previous version of Sentinel System Driver is found on your system, a message will appear asking you to confirm the upgrade. The Sentinel Protection Server will also be upgraded if you choose to upgrade the driver.
6. You may now choose the setup type as **Complete** or **Custom**. If you select **Custom**, make sure that you do not deselect the Sentinel Protection Server feature.
7. Follow the on-screen instructions to complete the Sentinel UltraPro installation.

## List of Installed Components

The table below assumes you have installed Sentinel UltraPro using the **Complete** setup type in the root directory of your system:

### Installation Directory Structure

File/Folder Name	Description
<i>\Compiler Interfaces</i>	Contains client library interfaces for popular compilers, such as Microsoft Visual C++, Visual Basic, COM and so on. Refer to the directory for details.
<i>\Configuration File Template</i>	Contains the configuration file for your customers.
<i>\Key Manager</i>	Contains the stand-alone Key Manager application and related files.
<i>\Manuals</i>	Contains various documentation items for this release.  Please note that the documentation provided in this directory may not be accessible from the Toolkit or any other utility. Hence, we suggest you to access them directly from this location.
<i>\Safe Sample</i>	Contains an example for customizing the SAFE program for field activation.
<i>\Sentinel Client Activator</i>	Contains Sentinel Client Activator files, including its complete documentation.
<i>\Sentinel License Monitor</i>	Contains the source code (.java and .class files) for modifying Sentinel License Monitor.
<i>\Sentinel Protection Installer</i>	Contains a ready-to-ship installer for deploying Sentinel System Driver and Sentinel Protection Server. This directory also contains the merge modules and MSI for both components that you can use for customizing their installation.
<i>\Toolkit</i>	Contains the Toolkit application, the Field Activation Utility and the related files. This will also contain the <i>MakeKeysLog</i> log file (generated while programming product keys) and the DUSAFE and UUSAFE objects (when generated using the <b>Generate Field Activation Objects</b> option in Toolkit).

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**Tip: Where are the Sentinel System Driver and Sentinel Protection Server installed?**

The two components are installed at: <rootdir>\Program Files\Common Files\SafeNet Sentinel.

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# Getting Started With the UltraPro Toolkit

This section contains details on how to open the Toolkit for the first time.

## Opening the UltraPro Toolkit

1. Click **Start** on the toolbar.
2. Point to **Programs > SafeNet Sentinel > UltraPro 1.0.0 > English**.
3. Click **Toolkit**. The Sentinel UltraPro Toolkit will open in few seconds.

Even though you can navigate into the Toolkit right away, we recommend that you attach and configure a Sentinel UltraPro key first (see below).

## Attaching the Key

Sentinel UltraPro keys can be attached to the parallel or USB port/hub on your system. The type you received in your package depends on what you specified when you placed your order.

### *Attaching a USB Port Key*

1. Locate an available USB port on your computer.
2. Attach the key to the USB port. Look to see the illuminated LED on the key to verify whether the key has been plugged-in properly.
3. In the **Key Configuration** dialog box, provide the key details from the password card.

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**Note: Sentinel USB keys are not supported on Windows NT 4.0**

Please note that Sentinel USB keys are not supported on Windows NT.

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### *Attaching a Parallel Port Key*

1. Locate an available parallel port on your computer.
2. Attach the key to the parallel port connector and tighten the screws to connect the key securely to the port.
3. In the **Key Configuration** dialog box, provide the key details from the password card.

## Which Options You Should Try First

- You can refer to the “Getting Started With Toolkit” video tutorial provided under **Help**.
- After configuring a key, you can try the Quick Shell protection.
- After configuring a key, you can create a project and a design to begin. The wizard will be shown automatically when you switch to the **Protection Manager** screen.

## Where to Find More Information?

For more information on this product, refer to the documents listed below (the list assumes you have installed the complete Sentinel UltraPro product):

### The Complete Documentation List

Document	Target Audience	What Does it Contain?	Where Can I Find It?
<b>Release Notes (This document)</b>	Developer	Contains product summary and installation details.	<input type="checkbox"/> From <i>StartHere.exe</i> , or <input type="checkbox"/> <code>&lt;installdir&gt;\SafeNet Sentinel\UltraPro\1.0\Manuals\English\ReleaseNotes</code>
<b>Toolkit Help</b>	Developer	Contains complete information about using the Toolkit, Sentinel UltraPro API documentation, troubleshooting, and FAQs.	From the <b>Help</b> menu of the Toolkit
<b>Video Tutorials</b>	Developer	Tutorials that help you in quickly understanding the Toolkit.	<input type="checkbox"/> From <i>StartHere.exe</i> , or <input type="checkbox"/> The <b>Help</b> menu of the Toolkit
<b>Sentinel UltraPro 1.0 Developer's Guide</b>	Developer	Contains information about the complete product. It is an ideal document for feature evaluation.	<input type="checkbox"/> From <i>StartHere.exe</i> , or <input type="checkbox"/> <code>&lt;installdir&gt;\SafeNet Sentinel\UltraPro\1.0\Manuals\English</code>
<b>Interface Documents</b>	Developer	Contains the Sentinel UltraPro API documentation for various languages\compilers.	You can find them in their respective directories at the following path: <code>&lt;installdir&gt;\SafeNet Sentinel\UltraPro\1.0\Compiler Interfaces</code>
<b>Sentinel Protection Installer Help</b>	Developer	Complete information on deploying the Sentinel UltraPro redistributables including, the use of the Windows Installer merge modules.	You can find it at the following installation path: <code>&lt;installdir&gt;\SafeNet Sentinel\UltraPro\1.0\Sentinel Protection Installer</code>
<b>Key Manager Help</b>	Distributors and Key Programmers	Contains information on using the stand-alone Key Manager application.	You can access it from the <b>Help</b> menu of the Key Manager application.
<b>Sentinel Client Activator Documentation</b>	Developer and Distributors; only those who are planning to use Sentinel Client Activator for remotely activating applications/features.	Complete documentation for using the Sentinel Client Activator.	You can find the complete documentation at the following path: <code>&lt;installdir&gt;\SafeNet Sentinel\UltraPro\1.0\Sentinel Client Activator</code> .
<b>Sentinel UltraPro System Administrator's Help</b>	Customers	Contains information relevant for using a protected application such as, attaching a key, using various redistributables, configuration file and so on.	You can find it at <code>&lt;installdir&gt;\SafeNet Sentinel\UltraPro\1.0\Manuals\English\SysAdminHelp</code>

### The Complete Documentation List (Continued)

Document	Target Audience	What Does it Contain?	Where Can I Find It?
<b>Field Activation Utility Help</b>	Customers/ Distributors; only those who will be using the Field Activation utility for updating the product/distributor keys in the field)	Contains information on using the Field Activation Utility.	Click the <b>Help</b> button in the Field Activation Utility.
<b>ReadMe files available with this release</b>	See the next column	<input type="checkbox"/> UUSAFE ReadMe <input type="checkbox"/> DUSFAE ReadMe <input type="checkbox"/> Sentinel Protection Installer Readme <input type="checkbox"/> Data Protection Driver ReadMe <input type="checkbox"/> Customizing Sentinel License Monitor ReadMe <input type="checkbox"/> Key Manager ReadMe (available with the stand-alone Key Manager application's installer)	Please look into the Sentinel UltraPro installation to locate each file.

## Contacting Technical Support

We are committed to supporting Sentinel UltraPro. If you have questions, need additional assistance, or encounter a problem, please contact Technical Support using one of the methods listed in the following table:

### Technical Support Contact Information

<b>Customer Connection Center (C<sup>3</sup>)</b>	
<i><a href="http://www.safenet-inc.com/support/index.asp">http://www.safenet-inc.com/support/index.asp</a></i>	
<b>Americas</b>	
Internet	<i><a href="http://www.safenet-inc.com/support/index.asp">http://www.safenet-inc.com/support/index.asp</a></i>
E-mail	techsupport@safenet-inc.com
<b>United States</b>	
Telephone	(800) 959-9954
Fax	(949) 450-7450
<b>Europe</b>	
E-mail	EUTechSupport@safenet-inc.com
<b>France</b>	
Telephone	0825 341000
Fax	44 (0) 1932 570743
<b>Germany</b>	
Telephone	01803 (7246269)
Fax	44 (0) 1932 570743

**Technical Support Contact Information (Continued)**

<b>United Kingdom</b>	
Telephone	0870 7529200
Fax	44 (0) 1932 570743
<b>Pacific Rim</b>	
E-mail	techsupportpacrim@safenet-inc.com
<b>Australia and New Zealand</b>	
Telephone	(61) 3 9882 8322
Fax	(61) 3 9882 0588
<b>China</b>	
Telephone	(86) 10 8851 9191
Fax	(86) 10 6872 7342
<b>India</b>	
Telephone	(91) 11 2691 7538
Fax	(91) 11 2633 1555
<b>Taiwan and Southeast Asia</b>	
Telephone	(886) 2 27353736
Fax	(886) 2 27352383

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