



Migrating to Sentinel Hardware Keys

Please note: This information is for current Sentinel UltraPro and SuperPro clients only.

Sentinel Dual Hardware Keys: One Key - 2 Implementations

Straightforward Migration Path from SuperPro or UltraPro

This white paper provides a detailed migration path to upgrade to the next generation of Sentinel security for developers currently using SuperPro or UltraPro by using Sentinel Dual Hardware Keys. With Sentinel Dual Keys, upgrading software protection is convenient for both developers and their customers.

The Sentinel Dual Hardware Keys can be shipped immediately in place of SuperPro or UltraPro keys to protect the current version of your software. In subsequent software releases, you can implement the enhanced security of Sentinel Hardware Keys, the next-generation of SafeNet software protection tokens. Sentinel Dual Keys can then be remotely upgraded to support future implementations without the need to ship additional hardware tokens.

New Sentinel Tokens, Existing Implementation

Sentinel Dual Hardware Keys have the same capabilities as SuperPro or UltraPro, but also combine the capabilities of Sentinel Hardware Keys. With Sentinel Dual Keys, you can begin shipping new software protection tokens that will support your existing SuperPro or UltraPro protected applications. No changes to your application are necessary in order to begin distributing Sentinel Dual Keys. Only the latest Sentinel System Driver (version 7.3.0 or higher) must be distributed with your protected application to support Sentinel Dual Hardware Keys.

Reduced Costs When Switching to Sentinel Hardware Keys

Your development team can implement new security when timing is appropriate, such as with a new release of your software. To upgrade your Sentinel security, use the Sentinel Hardware Keys Toolkit to implement superior shell and high-level Business Layer API™ protection, including AES-based encryption/decryption and ECC-based signing/verification.

When distributing the latest release of your software, any customer who received a Dual Key is ready for the new technology without requiring shipment of a new token. You will not have to incur the expense of shipping new keys to your current customers. Customers can also continue to use the same Dual Key simultaneously to support one application protected with the new Sentinel Hardware Keys and one protected with your legacy support system.

Superior Tensile Strength

Throughout the development of Sentinel Hardware Keys, SafeNet worked to create a USB device that was not only technologically advanced, but also physically stronger. An independent lab, Trace Laboratories, found Sentinel Hardware Keys to be significantly more durable than SuperPro and UltraPro as well as competitive USB tokens. An Executive Summary of the study results as well as the complete study test report are available at www.safenet-inc.com/tensile/.

Migrating to Sentinel Hardware Keys with Sentinel Dual Hardware Keys

Following is an outline of the suggested migration path for Sentinel SuperPro and UltraPro developers to Sentinel Hardware Keys through the use of Sentinel Dual Hardware Keys.

Stage 1 - Distribute Sentinel Dual Hardware Keys

In Stage 1, you need only ship new Sentinel Dual Keys. No changes to your application/source code are necessary.

To distribute Sentinel Dual Hardware Keys, take the following steps:

1. Order the Sentinel Dual Hardware Keys kit (instead of Sentinel SuperPro or UltraPro Keys) through your Sentinel sales representative.
 - a. Sentinel Dual Hardware Keys have support for your current protection system (SuperPro or UltraPro) and your future protection system (Sentinel Hardware Keys kit). These are available in USB form factor for stand-alone and network users.
2. Program Sentinel Dual Hardware Keys with the same protection strategy you prepared in the SuperPro or UltraPro Toolkit. No new programming is required. The protection you have already implemented into your software will work with the new Sentinel Dual Keys.
3. Distribute the latest Sentinel System Driver (version 7.3.0 or higher) with your protected application to support Sentinel Dual Hardware Keys. You may post the driver for download on your Website. A copy can also be downloaded from the SafeNet Sentinel [Tech Support Site](#). The Sentinel System Driver version 7.3.0 is backward-compatible and can be distributed to customers using SuperPro/UltraPro Keys in parallel port form factor.

Stage 2 - Design a New Protection Strategy

In stage 2, you will be implementing a new protection strategy using the Sentinel Hardware Keys Toolkit. This can ideally be done for the upcoming releases of your software. You need to:

1. Order the Sentinel Hardware Keys kit through your Sentinel sales representative.
2. After installation, use the Sentinel Hardware Keys Toolkit to implement superior shell and/or high-level Business Layer API protection - including AES-based encryption/decryption and ECC-based signing/verification.

Note: You will NOT be able to import/re-use your legacy API or Shell SuperPro or UltraPro code base (prepared using Sentinel SuperPro or UltraPro kits) in the Sentinel Keys Toolkit. Since Sentinel Hardware Keys use the latest security technologies, you will need to implement a new, highly secure protection strategy. Refer to the Sentinel Keys Developer's Guide for details on using the Sentinel Keys Toolkit.

For Stage 1 Customers Who Want to Upgrade Your Application:

Using the Sentinel Keys Toolkit, generate upgrade licenses for customers who received Sentinel Dual Hardware Keys in Stage 1. Using these licenses, you can provide seamless remote upgrades to your existing customers (without replacing the keys). You need to ship them your new protected application and other redistributables.

For New Customers:

Program and distribute Sentinel Hardware Keys.

Sentinel Hardware Keys: Superior Protection against Piracy

Sentinel has been setting the standard for software protection since 1984 and secures more clients worldwide than any other key. Sentinel Hardware Keys, the next-generation of SafeNet software protection tokens, provide advanced security and licensing features to protect software from piracy and prevent lost revenue.

Sentinel Hardware Keys are the most secure hardware token available in the world. Both Elliptic Curve Public Key Cryptography (ECC) and 128-bit AES encryption are used to secure communications between the key and the protected application. In addition, Sentinel Keys provide new and improved software tools for easier implementation and deployment

About SafeNet, Inc.

SafeNet is a global leader in information security. Founded more than 20 years ago, the company provides complete security utilizing its encryption technologies to protect communications, intellectual property and digital identities, and offers a full spectrum of products including hardware, software, and chips. UBS, Nokia, Fujitsu, Hitachi, ARM, Bank of America, NetGear, the Departments of Defense and Homeland Security, Adobe, Samsung, Texas Instruments, the U.S. Internal Revenue Service and scores of other customers entrust their security needs to SafeNet. For more information, visit

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