

Feature Advantage Benefits: Sentinel Hardware Keys

Feature	Advantage	Benefit
Advanced Communications (ECC and AES)	<ul style="list-style-type: none"> ▪ Sentinel Hardware Keys use public key cryptography (elliptic curve) and 128-bit AES encryption to create the most secure token in the industry 	<ul style="list-style-type: none"> ▪ Provides the highest level of security available ▪ Protection against middle layer attacks such as record and playback and driver emulation
Sentinel V-Clock™	<ul style="list-style-type: none"> ▪ Allows you to reliably and securely offer time-based license models such as trial, demo or subscription ▪ Value-checking function prevents tampering ▪ The V-Clock comes standard with Sentinel Keys and requires no on-board battery 	<ul style="list-style-type: none"> ▪ Allows you to offer secure time-based licensing ▪ Comes standard, no additional cost is required
Sentinel Business Layer APIs™	<ul style="list-style-type: none"> ▪ Quickly and easily add popular licensing schemes to applications <ul style="list-style-type: none"> ▪ Demo/Try-before-you-buy ▪ Time-based subscription ▪ Pay-per-use ▪ Pre-built security logic allows implementation of both a license scheme and security at once ▪ Offers improved backward compatibility for the customer's design of the hardware token 	<ul style="list-style-type: none"> ▪ Reduces development time and costs by up to 60% or more
Logical Addressing	<ul style="list-style-type: none"> ▪ Unlike keys that require you to conduct low level programming in order to update licenses, Sentinel Logical Addressing allows developers to add or change implementations without being concerned about specific memory address usage ▪ With Logical Addressing design, there is no need for the customer to update the token's design, SafeNet updates the logical addressing logic within the token 	<ul style="list-style-type: none"> ▪ Greatly speeds development and reduces risk of error from overwriting information in memory cells

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Sentinel Shell	<ul style="list-style-type: none"> ▪ Compresses the code to make reverse engineering even more difficult ▪ Adds multiple layers to thwart hacking attempts ▪ Prevents memory dumping and includes protection against debuggers ▪ Quickly adds additional protection to your application 	<ul style="list-style-type: none"> ▪ Enhances overall security without requiring any additional development time
Sentinel Distributor Keys	<ul style="list-style-type: none"> ▪ Unlike keys which may require your distribution channels to function autonomously, Sentinel Hardware Keys allow you to carefully control and regulate your distribution channels through the use of Distributor Keys. ▪ Distributor Keys can enforce limits such as a maximum number of licenses or the creation of trial versions only. ▪ Developers can limit the number of licenses generated by distributors, and also allow for the creation of trial licenses only 	<ul style="list-style-type: none"> ▪ Sentinel Distributor Keys allow you to securely control and regulate each link in your distribution chain ▪ Ensures distributors are paying for all licenses ▪ Allows for quick and efficient fulfillment
Secure Remote Updates	<ul style="list-style-type: none"> ▪ Sentinel Hardware Keys create a secure transmission for sending new license strings and license update strings. 	<ul style="list-style-type: none"> ▪ You don't have to ship another key and incur additional costs. ▪ The high level of security is maintained as new license strings are sent remotely.
Superior Technical Support	<ul style="list-style-type: none"> ▪ The SafeNet Technical Services organization provides worldwide telephone, email and Internet-based support to our customers. ▪ Our "SafeNet Service Pledge" ensures that you consistently receive the highest level of service. 	<ul style="list-style-type: none"> ▪ Reliable support ensures smooth implementation and fast time to market.
Sentinel Hardware Key with Real Time Clock (RTC)	<ul style="list-style-type: none"> ▪ A real time clock is stored inside the hardware key, offering a non-repudiated time source 	<ul style="list-style-type: none"> ▪ Allows end users to place non-repudiated time-stamps on the output of an application for legal purposes. ▪ Allows ISVs to offer time-based licensing that is impervious to time-tampering.