Sentinel Fit delivers award-winning software protection features combined with sophisticated, web-based entitlement management capabilities. Sentinel Fit is ideal for embedded systems; supporting virtually all boards and microcontrollers and is free from CPU and operating system constraints.

Sentinel Fit enables embedded device manufacturers to deploy a feature-rich licensing solution with flexible packaging, to reduce cost of hardware variations, and capture recurring revenue via automatic updates and services for in-the-field devices.

**Ultra-Low Footprint**
Integrate the smallest, commercially available secure licensing footprint into your products:

- **Sentinel Fit Runtime**: Designed for use in highly constrained environments (RAM, CPU power, storage).
- **Resource Consumption**: Consumes a low portion of the available free resources on the device.
- **Footprint Size**: Smallest commercially available licensing RSA Footprint 34KB Flash, 13KB RAM. AES Footprint 6.5KB Flash, 1.5KB RAM.

**High Portability**
Use a feature-rich SDK suitable for development on all device platforms:

- **Source Code**: Access to Sentinel Fit runtime source code
- **Development Platforms**: Supports widest range of environments and platforms, across OS variants, CPU architectures, and board types.
- **Flexible Compilation**: Compile the source code to meet environmental needs.

**Features & Benefits**
- **Ultra-Low Footprint**: Integrate the smallest, commercially available secure licensing footprint into your products.
- **High Portability**: Use a feature-rich SDK suitable for development on all device platforms.
- **Modular Architecture**: Create an optimal balance between footprint and device functionality.
- **Feature-Based Licensing**: Customize your product with a feature based licensing solution.
- **Tamper-Proof Licenses**: Safeguard the security of licenses from throughout the entire life cycle from creation to delivery.
- **Fingerprint Node Locking**: Ensure users do not copy licenses from one device to another.
- **License Activation & Updates**: Activate and update licenses throughout the entire product lifecycle.

**Modular Architecture**
Create an optimal balance between footprint and device functionality.

- **Customization**: Tailor the runtime to meet hardware constraints, and reduce footprint.
- **Pluggable Cryptography**: Reduce footprint by leveraging existing crypto license signature: RSA 2048 or AES 128.
- **Do It Yourself**: Independently customizable to match specific footprint requirements.
Feature-Based Licensing
Customize your product with a feature-based licensing solution.

- **Product Functionality**: Vendors can use licensing to grant (or deny) access to different software features.
- **Licensing Models**: Independent license model can be connected to any feature; including perpetual or time-based (expiry date) licensing models.
- **License Per Feature**: Supports up to 65K features/functions.

Tamperproof Licenses
Safeguard the security of licenses throughout the entire lifecycle from creation to delivery.

- **License Enforcement**: Licenses define the software usage terms; RSA asymmetrically signed; AES symmetrically signed.
- **License Protection**: Licenses are generated by the vendor only and are protected from illegal manipulation.
- **Secure License Delivery**: Licenses are secured in transport.

Fingerprint Node Locking
Ensure users do not copy licenses from one device to another.

- **Fingerprint Protection**: Vendor creates a fingerprint function based on unique device attributes.
- **Vendor Control**: Vendors get full control to enable customization of license locking criteria.
- **Illegal Duplication**: Fingerprints are incorporated into the licenses to prevent illegal duplication.

License Activation & Updates
Activate and update licenses throughout the entire product lifecycle.

- **License Activation**: Supports activation at production, during fulfillment, and field activation.
- **License Updates**: Send new licenses or updates to devices in the field.
- **License Control**: Supports device personalization per channel or end user.
- **Production Control**: Enable to control low-trust contract manufacturers and still allow them to produce offline.

Extended EMS Functionality
Extend the functionality of Sentinel Fit using Sentinel EMS.

- **Use Customer-Centric Data**: Get analytic data to understand use cases, build better products and adapt to evolving market needs.
- **Controlled Manufacturing Process**: Ensure that only entitled devices are activated and prevent cloning and grey-market copycats.
- **Control Sales Distribution**: Authorize and track what packages your partners, distributors, and sales channel are authorized to sell.

About Gemalto Sentinel
Gemalto is the market-leading provider of software licensing and entitlement management solutions for on-premise, embedded, and cloud-based software vendors. Gemalto Sentinel is the most trusted brand in the software industry for secure, flexible, and future-proof software monetization solutions.