

IAR's Approach to Tackling Embedded Security Vulnerabilities and Product Security

Late-Stage Security

IAR Embedded Secure IP

Best for adding security after product has been completed and need add encryption and protection against counterfeit production of your product.

Advanced Security

IAR Embedded Trust

Best when thinking of building end-to-end security into your product design and development from the beginning of your product development cycle.

Product Development Cycle

Highlight Features

Device Agnostic

Port current framework to new MCU

Reuse Code

Port code and quickly complete your application for the new MCU

Secure Manufacturing

Use HSM and encryption mechanisms to securely provision authorized production of your products

Concept



Authentication

- Secure boot
- Ensure authentic firmware
- Ensure product integrity



Unauthorized software



Anti-cloning

- Protect the device's memory against copying
- Prevent lost revenue
- Unique device proprieties in programmed information



Active IP Protection

- Encrypted software image
- Unique keys for each device
- Prevent reverse engineering with image encryptions



Memory Attack Device Access

Design



Anti-rollback

- Prevent the installation of outdated code
- Mitigate dangers of known security flaws



Anti-cloning

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Active IP Protection

- Encrypted software image
- Unique keys for each device
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Secure Deploy Prototyping (SDP)

- Encrypts production packages and provisions authorized devices
- Primarily for sample prototyping and low-volume production



Counterfeiting

Development & Testing



Secure Deploy Manufacturing (SDM)

- Safely transfers encrypted production packages to programming houses
- Generates unique device certificates and keys to protect devices from counterfeiting at production
- Typically for high-volume production



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IP theft

Production & Launch



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Tampering of versions

Field Update

Product Completed Already

Security Added

Product Designed With Security

Manufactured With Security

Product details

