

## Guardian - Implement cryptography securely and quickly

Guardian makes it easy to build cryptography into your device, validating integrity and keeping data private.

Start a Proof of Concept Today

## Cryptography engineering is hard

Failure to properly encrypt data is one of the leading causes of medical device cybersecurity vulnerability disclosures and recalls. Guardian makes it easy to encrypt, decrypt, sign, and verify using trusted algorithms through a simple API.

See the developer docs

```
import guardian

message = "Message of important data"

# Library is configured to encrypt and/or sign data
# over the channel
guardian.DataChannel.DataForChannel(message)
```

## Key Management, simplified

Guardian can use keys signed by Overwatch, our key management system, or keys signed by another PKI tool. Devices and their keys are tracked within Overwatch, simplifying Postmarket management and incident response. We've built this system with the unique needs of medical devices in mind (like intermittent connectivity, and the need to maintain clinical functionality at all costs).

```
import guardian
status = guardian.utilites.get_init_files_from_names(
    "Tractore.ecu",
    "PrivateIdentity.ecpl",
    "CertifiedProfile.ecp",
    "", &init_files)

status = guardian.Initialize(
    init_files, "by unique hardware identifier",
    guardian.GuardianInitializeOptions)
```

## Guardian Features

Designed for medical devices

### Platform Support

Designed to work in embedded MCUs (ARM), all the way up to Intel-based servers.

### Configurable

Choose the encryption algorithms and parameters most appropriate for your use case and design constraints.

### Postmarket

Integration with our Overwatch, Canary, and Heimdall solutions makes it easy to manage devices in the field.

### Verified

We follow medical device quality systems, and provide our internal testing documentation to support your quality system and regulatory filing making V&V easy.

Request a demo

## We live and breathe healthcare cybersecurity

A medical device may look like just another IoT device, but regulatory constraints and their unique use case require a healthcare-first approach to cybersecurity. MedCrypt's solutions are built specifically for medical devices, which means clinical functionality, patient safety, and care delivery are always the highest priority.



Solutions



### Proactive Healthcare Security

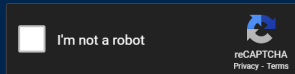
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