iWave
Embedding Intelligence

Security Suite

iWave Security suite secures connected devices, enabling them with security functions such as encryption, storage, data transmission and certificate management. The easy to integrate solution helps address the security challenges creating a safe and secure environment. iWave's security suite provides end to end security and prevents the information/data in the system from being hacked. Security Suite includes secure boot, Wi-Fi secure API, event logging, OS hardening, access control, software firewall and secure firmware update to name a few.

OP-TEE

Third Party Library

Secure Component

Wi-Fi secure API

OS Hardening

Crypto Functions

Software Firewall

File System Encryption/Decryption

Secure Firmware Update

Secure Storage

Security Suite

- Crypto functions with optional wolfSSL libraries
- File System Encryption/Decryption
- Secure Storage of Data
- Software Firewall to restrict unwanted access
- Secure Boot and firmware update
- Event report feature records any Secure and Non Secure events
- Access to those events is done using Security Stack's Event Logging APIs.
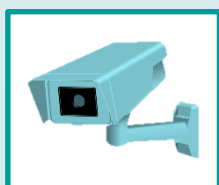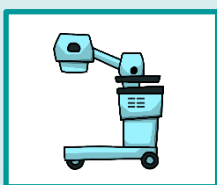
DELIVERABLES:

- Binary Package and Libraries
- API framework with API user manual document
- Tool Chain
- User manual

VALUE PROPOSITION:

- Easy to Use API's to access Secure Services
- End to End solution offerings
- Complete product support
- Porting support

APPLICATIONS:
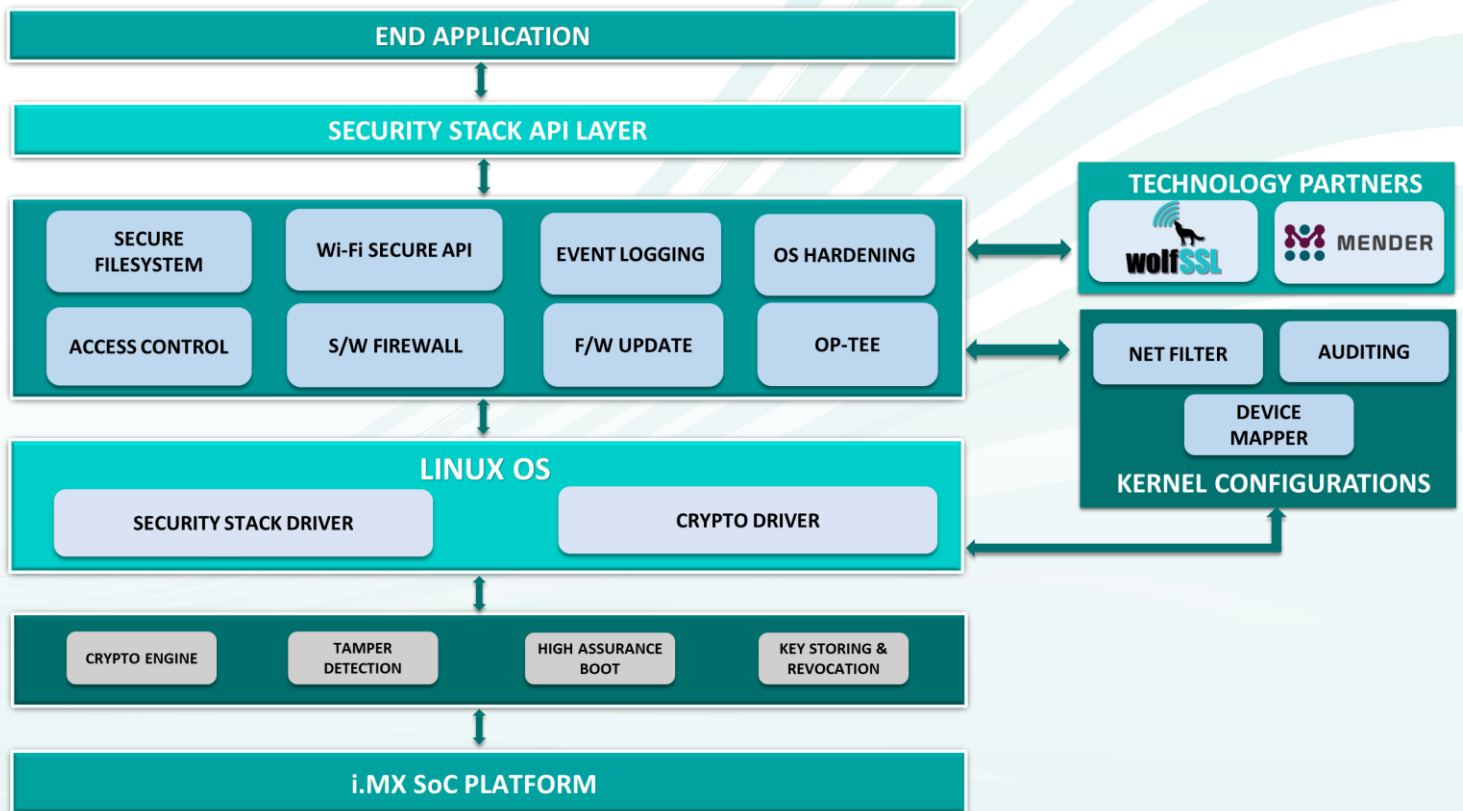
Automotive Security **Industrial IoT** **Smart Home** **Medical Devices** **Machine Vision** **Video Surveillance**

iWave
Embedding Intelligence

Architecture of Security Suite

Security Suite provides Easy to use API which helps developers to work on their End Applications. Developers do not need to worry about enabling any Secure services since Security Suite APIs will take care of that. Security Suite has Event report feature. Any Secure and Non Secure events will be recorded. Access to those events is done using Security Stack's Event Logging APIs.

END APPLICATION

SECURITY STACK API LAYER

| SECURE FILESYSTEM | Wi-Fi SECURE API | EVENT LOGGING | OS HARDENING |
| ACCESS CONTROL | S/W FIREWALL | F/W UPDATE | OP-TEE |

TECHNOLOGY PARTNERS

wolfSSL   MENDER

LINUX OS

SECURITY STACK DRIVER   CRYPTO DRIVER

| NET FILTER | AUDITING |
| DEVICE MAPPER | |

KERNEL CONFIGURATIONS

| CRYPTO ENGINE | TAMPER DETECTION | HIGH ASSURANCE BOOT | KEY STORING & REVOCATION |

i.MX SoC PLATFORM

SUPPORTED PLATFORMS:
- i.MX 8
- i.MX 6
- Other ARM platforms

KERNEL VERSION:
- Supported in Linux 5.4 and higher Kernel versions

iWave Systems Technologies is a product engineering organization offering an extensive portfolio of Telematics Solutions, System on Modules and avionic solutions. With over 21 years of embedded industry experience and designing solutions for automotive customers across the globe, iWave is driven with the aim to be a reliable global technology partner. Learn more about iWave at www.iwavesystems.com