

Mocana TrustCore™

Full-stack Security Framework for IoT Solutions

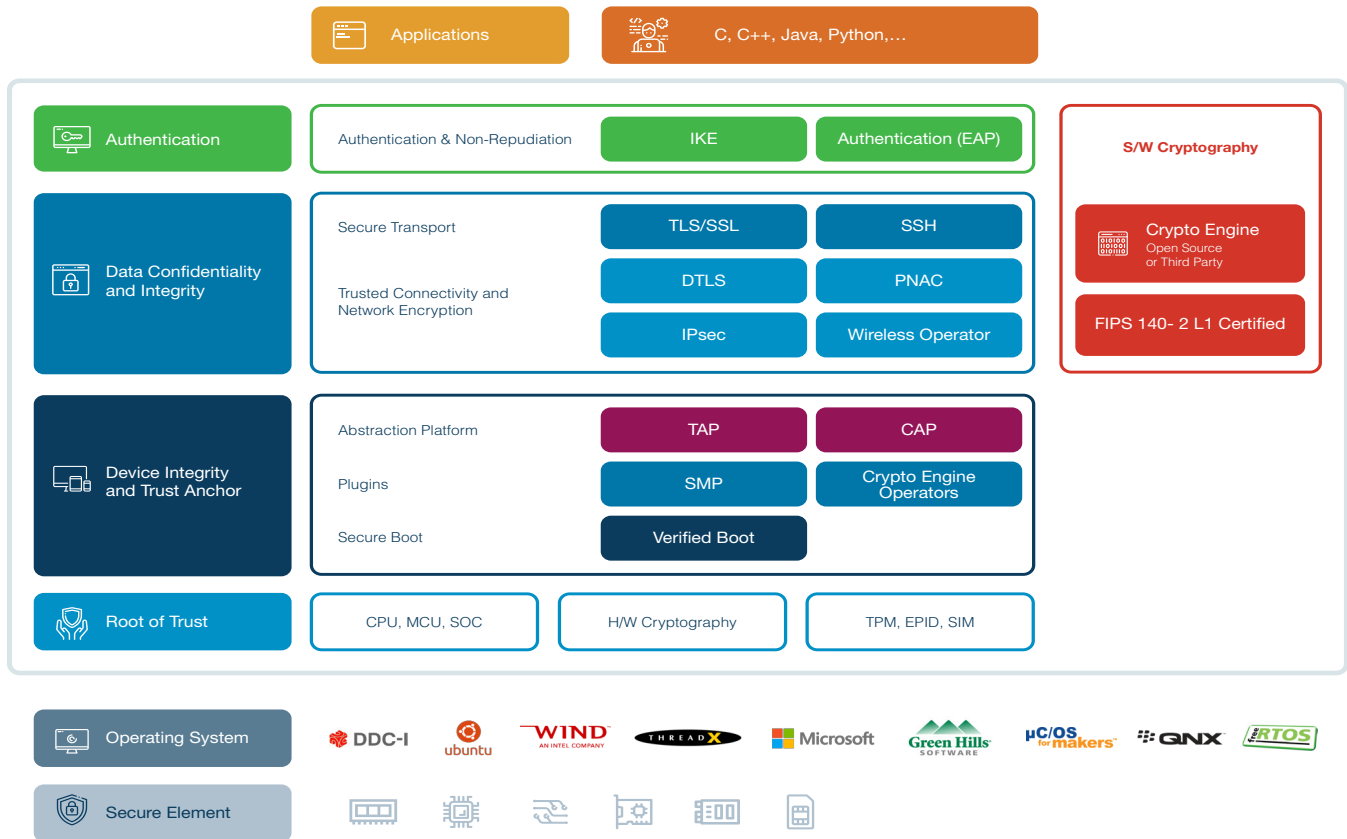
Mocana TrustCore™ is a full-stack security framework designed for IoT applications, real-time embedded software, and safety/mission critical applications. The Mocana TrustCore development platform empowers application developers with a simple set of APIs to leverage data privacy and protection controls for safety, security and compliance without extensive reengineering. It is fully integrated with a variety of secure elements to provide a root of trust for device authentication, automated key management and rotation, data protection, network traffic encryption, and integration with Enterprise and commercial certificate authorities.

The Mocana TrustCore protection framework for IoT solutions is a trust abstraction platform for integration with a plurality of secure elements and a crypto abstraction platform for integration with any engine plugin for compliance with import and export restrictions. The platform provides APIs and sample applications for polyglot applications (e.g., C, Java) to leverage capabilities for multi-key, multi-factor, multi-stage verified boot, data protection (at-rest, in-motion), inter-system, and intra-system secure communications based on Internet transport protocols (e.g., SSL/TLS, SSH, IPsec, IKE, 802.11i, 802.1ax, GDOI) or bus/serial interfaces (e.g., CAN Bus, HART, ARINC) using lightweight cryptographic libraries, RFC compliant protocols for interoperability, and a multitude of authentication methods (EAP). Applications can leverage secure functions via the Trust Abstraction Platform (TAP) APIs and seamlessly integrate with any secure element via the Security Module Plugin (SMP). Mocana TrustCore™ is integrated with more than 70 chipsets and 30 operating systems, including most real-time operating systems.

Security Features

- Any Root of Trust (RoT) for Trusted Identity
- Standards based interoperability
- Device Identification and Authentication
- Key Protection and Management
- Dynamic Key Exchange
- Secure Communications with Protected Keys
- Platform Attestation by RoT
- Secure Containerization (Workload Isolation)
- Low memory footprint
- FIPS 140-2 Level 1 certified
- Any processor, any operating system
- Brownfield or greenfield devices

Mocana TrustCore™ Development Platform



Benefits

- Harden resource constrained devices
- Authoritative and immutable identity endorsement from a Root of Trust
- Local key generation and secure key storage
- Migrate from open source without re-engineering applications
- Real-time controls for code integrity and data confidentiality
- OS- and platform-agnostic for easy portability
- Endpoint and gateway protection and authentication
- Guaranteed GPL-Free code protects your intellectual property
- Helps achieve industry safety compliance standards

About Mocana

Mocana provides high-performance, ultra-optimized, OS-independent, high-assurance security solutions for any device class. Mocana's award-winning cryptographic solutions are used in the most stringently constrained and life-critical systems by Fortune 500 companies, world-leading smart device manufacturers, and government agencies. For more information on Mocana and our solutions, please visit www.mocana.com or contact us at sales@mocana.com.

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