

Mocana TrustCenter™

Automated Device Lifecycle Management and Orchestration Services Platform

Mocana® TrustCenter™ is a device security management services platform that automates provisioning and identity attestation for proof of possession of a secret associated with the identity. It is supported based on an endorsement or attestation certificate of the underlying secure element.

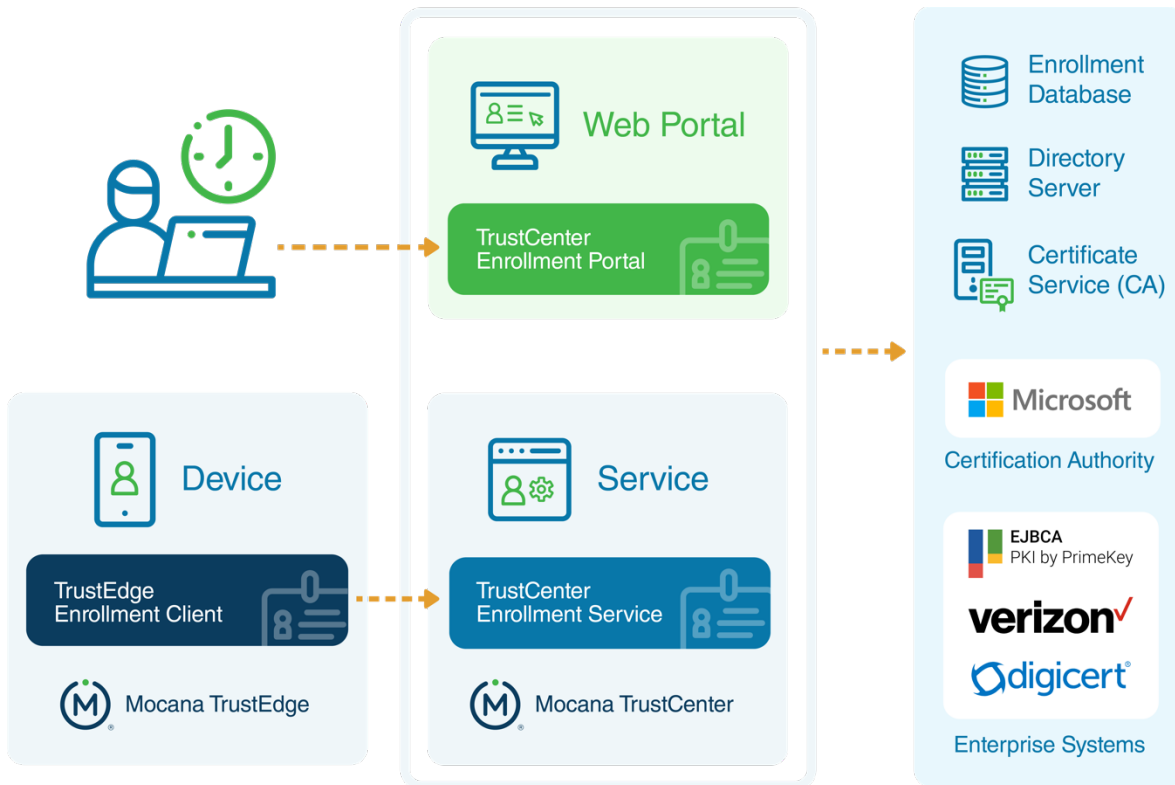
Mocana TrustCenter includes the Mocana TrustCenter Enrollment Service (TCES) and Mocana TrustCenter Update Service (TCUS). TCES provides lifecycle management from device identification, device authentication for onboarding, to provisioning for native or containerized applications and services on IoT endpoints and edge gateways. TCUS provides tamper-resistant device lifecycle management for supply chain provenance, from device identification and attribution, device authentication and authorization, to policy and device attribute-based updates of firmware, software, and configuration on IoT endpoints and edge gateways.

The device authentication methods support devices in a multi-tenant architecture for scalability, elasticity, and optimized resource utilization. Device identification is based on an immutable identity and optional security module plugins for a plurality of hardware-based root of trust anchors (e.g., TPM, Intel EPID, SIM, MCU). Advanced services additionally include secure session management and certification chain verification. TCES supports a comprehensive set of Enrollment over Secure Transport (EST) commands and provides a unified and elastic approach for authentication, authorization, key protection, issuance, renewal, and revocation of device and application certificates. TCUS provides stateful delivery and script-based install of update packages based on policy and device attribute-based update rules to the Mocana TrustEdge™ Protection Update Client. Mocana TrustCenter may be managed using a web-based user interface or via REST-based APIs integrated with a vendor equipment device management system (DMS).

Security Features

- › Integration with Mocana TrustEdge clients
- › Integration with enterprise certificate authority (Microsoft® Certificate Services)
- › Integration with commercial certificate authorities (Verizon, PrimeKey/EJBCA, DigiCert)
- › Integration with Intel® Secure Device Onboarding (SDO)
- › Supports multi-tenancy for scalability and elasticity
- › Service connector to any certificate authority of choice
- › Installs as a Docker container
- › Supply chain provenance with provider and publisher digital signatures
- › Enables key protection based on the underlying secure element
- › Enables certificate-based authentication and policy-based authorization

Mocana TrustCenter and TrustEdge System Architecture



Benefits

- › Enables zero-touch device enrollment at power-on in the field with a simplified and unified workflow
- › High assurance identity proofing and key management
- › Reduces costs and eliminates complexity of PKI
- › Enables IoT services for devices across verticals
- › Lifecycle management with supply chain attestation
- › Tamper-resistant content delivery across a supply chain of providers and publishers
- › Ease of integration with collaboration services
- › Harvest logs for regulatory compliance reports
- › Flexibility to host in a private cloud, public cloud, or on-premise

About Mocana

Mocana protects more than 100 million devices worldwide and is trusted by the largest aerospace, industrial, energy, healthcare, and communications companies. Find out more at www.mocana.com.

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