

Use Case: Portable Ultrasound Systems

Situation



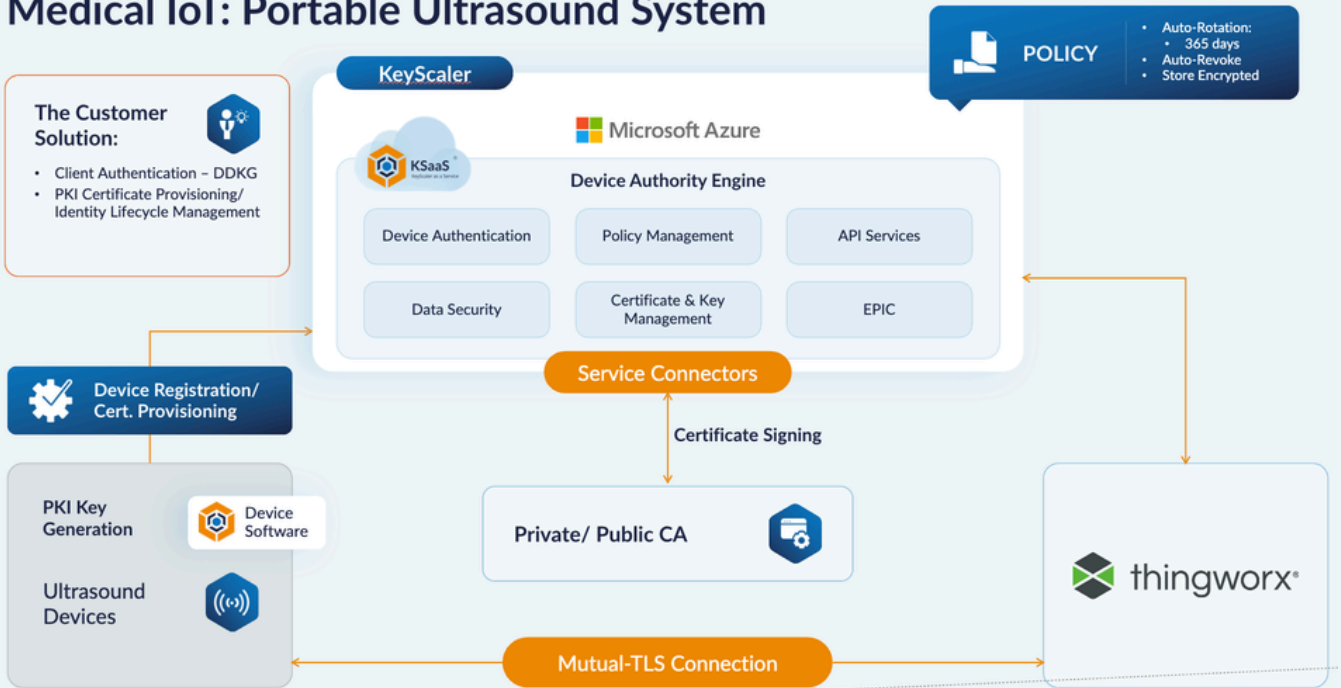
A company specialized in portable medical ultrasound devices, is increasingly connecting its devices to the Internet of Things (IoT) Platform for real-time monitoring, remote diagnostics, and software updates. To manage these devices efficiently and securely, the company integrates PTC ThingWorx for device management and cloud connectivity. Patient safety, procedure management, device security, industry compliance, and cloud integration are all key requirements.

Solution

Device Authority KeyScaler is used to provide the following:

- **Secure Device Registration & Authentication:** KeyScaler ensures each device is securely registered and authenticated using unique identities and X.509 certificates.
- **Encrypted Communication:** It provides encrypted communication between devices and cloud platforms, protecting sensitive data from unauthorized access.
- **Automated Certificate Management:** KeyScaler automates certificate provisioning, renewal, rotation, and revocation, ensuring ongoing security without manual intervention.

Medical IoT: Portable Ultrasound System



Key Results

- **Enhanced Security:** Ensures only authorized devices can connect and communicate securely with the cloud, protecting sensitive data.
- **Operational Efficiency:** Automates device registration, certificate management, and secure communication, reducing manual intervention and administrative overhead.
- **Scalability:** Easily scales with the growth of device fleets, providing secure management for increasing numbers of devices.

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