

Use Case: Connected Agricultural Infrastructure



Situation

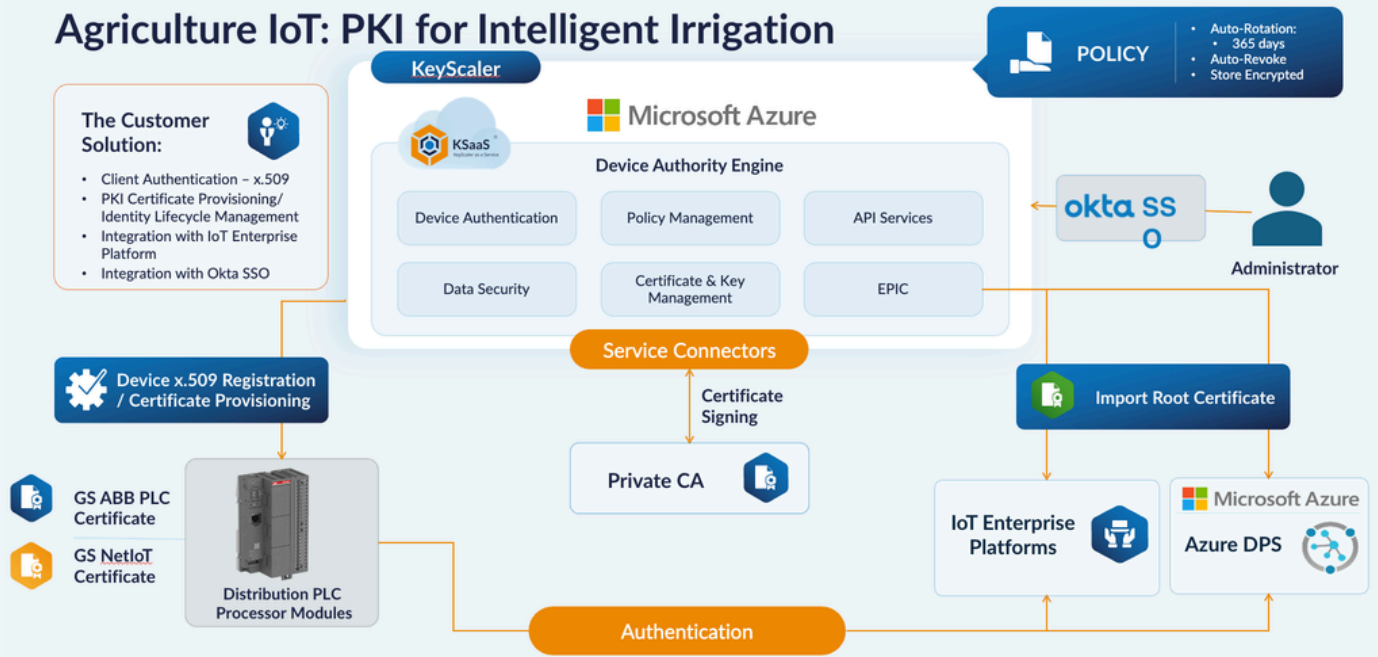
As part of its digital transformation strategy, a leading agricultural infrastructure company seeks to enhance operational efficiency, data visibility, and security in its eco-system. The organization aims to implement a robust data collection and transmission system using their Distribution PLC's. The Devices require a secure mTLS enrolment process for X.509 certificate provisioning and ongoing lifecycle management. The certificates are used to authenticate to their own Enterprise IoT Platforms to send sensitive operational data. Additionally integrated with Okta for Single-Sign-On.

Solution

Device Authority KeyScaler is used to provide the following:

- Automated Device Registration: Utilizing the mTLS X.509 authentication.
- Policy-Based Certificate Lifecycle Management: automated certificate provisioning, rotation, and revocation.
- Automated Device Provisioning: eliminating manual steps and minimizing the risk of human error.
- Integration with Okta for Single Sign On.

Agriculture IoT: PKI for Intelligent Irrigation



Key Results

- **Enhanced Security & Compliance:** Automated certificate management,
- **Leveraging KSaaS** for global coverage across 15 major countries with integration with regional systems.
- **Efficient Onboarding & Scalability:** Automates device enrolment, reducing downtime while supporting growing device needs securely.
- **Cost Reduction:** Lowers operational costs through automation, freeing resources for strategic activities.

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