

Use Case: Surgical Robots

Situation

A medical device manufacturer produces surgical robots that perform joint replacement surgery in an offline setting. Each procedure requires new encryption key generation and key storage for when the robot connects via a secure connected gateway.

Sensitive medical data regarding each procedure and its results are generated and the customer must ensure it maintains data protection under HIPAA.

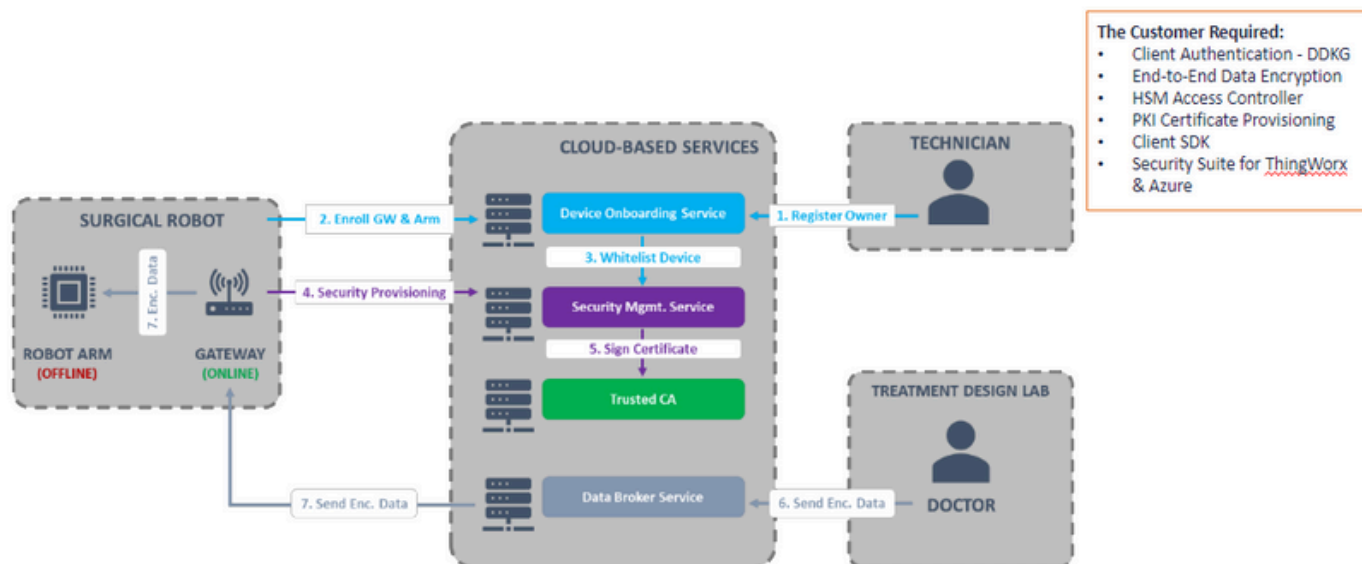
Patient safety, procedure management, data security, and cloud integration are key requirements.

Solution

By implementing the KeyScaler platform, Device Authority was able to provide the following:

- Automated Device Provisioning, providing Secure robot registration to the device manufacturer's cloud platform
- Security Suite for PTC ThingWorx with end-to-end data security and token issuance for authentication
- Full Identity Lifecycle Management for online and offline devices
- Policy-driven end-to-end data security and integrity validation for patient data

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Conclusion

- Faster time to value by using pre-built integrations to enterprise IoT platforms
- Reduced liability, cost of operations and development
- New revenue generation from Device as a Service (DaaS)
- Streamlined device security reducing admin burden, freeing up internal FTEs to handle other essential duties
- Support for the Software Bill of Materials
- Identity Lifecycle Management prevents compromise and speeds incident response, minimizing customer disruption, preserving brand reputation, and reducing liability