DEVICE AUTHORITY

Use Case: Secure Key Generation, Storage, and Distribution

Situation

Device Authority and Entrust partnered to provide solutions to a global manufacturer of automotive components that has multiple secure manufacturing lines that require a Key Distribution and Management System and PKI service to provision digital certificates to each OEM.

This manufacturer needed to be able to securely transport keys from the OEM delivery service to the remote factories. These keys are injected directly into the OEM's vehicle electronic components, which are then distributed to end customers for inclusion in their finished automotive products.

Those finished products needed to be able to close the loop with the initial key provider for auditing purposes.
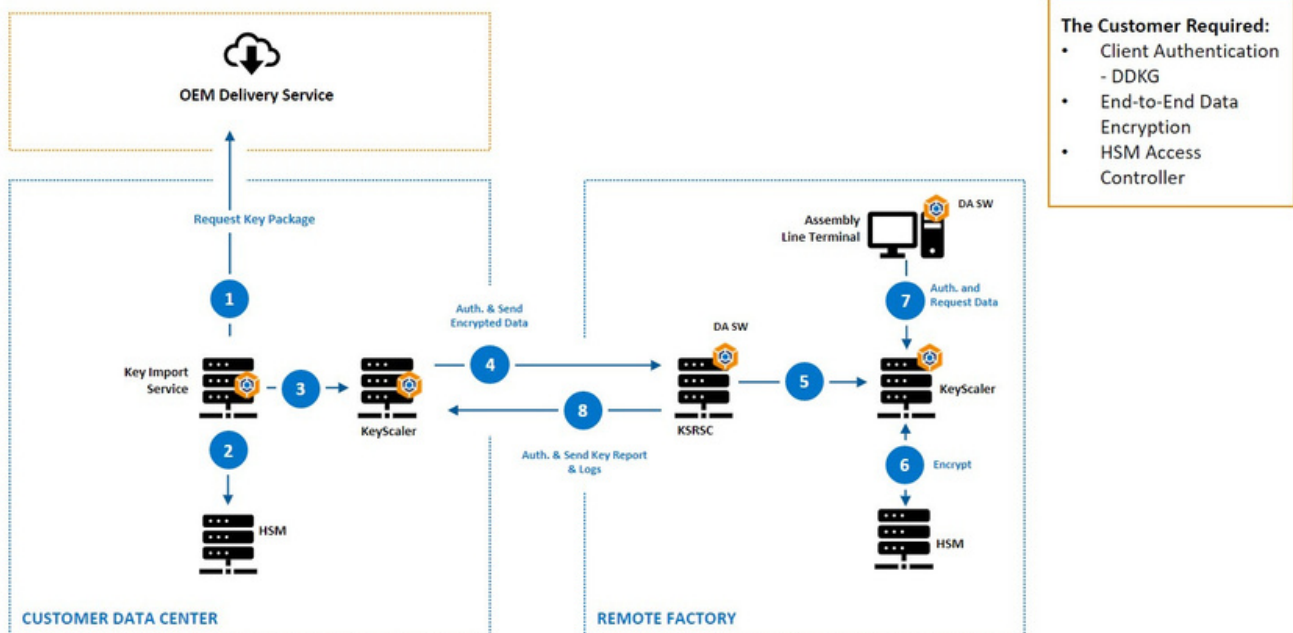
Solution

Device Authority and Entrust streamlined the process by utilizing both KeyScaler and Entrust PKI to provide:

- A hybrid and high scale PKI service, operated to best industry practice, to provision digital certificates as a trusted identity, unique to each OEM

- Certificate Lifecycle Management capabilities to reduce management overheads and risk

- Device Identity management via the use of Device Authority's Dynamic Device Key Generation (DDKG) technology

- KeyScaler, a key distribution and management solution backed by the PKI, to securely transport keys from the OEMs of production equipment to remote factories worldwide

- Policy-driven Encryption with granular read/write access permissions

- HSM Access Control for integration with third-party HSM for secure and automated key generation and storage using HSM

- Key generation and usage reporting for auditing

Industrial IoT: Secure Key Generation, Storage, and Distribution

The Customer Required:
- Client Authentication - DDKG
- End-to-End Data Encryption
- HSM Access Controller

Conclusion

The implementation of Device Authority's DDKG solution meant that the client was able to benefit from using pre-built integrations to enterprise IoT platforms.

Further, the flexible PKI service from Entrust has delivered the scalable, high performance and assured infrastructure that the customer considers critical to their ongoing efficient operations and assurance fabric.

The combined solutions from both Device Authority and Entrust have streamlined device security reducing admin burden and freeing up internal FTEs to handle other essential duties.

Automation of the IoT devices on and off, their network speeds up incident response times and minimizes customer disruption, helping to preserve brand reputation, and reducing liability.