

Use Case: Connected Electrified Powertrains

Situation

A manufacturer of electrified powertrains whose product is deployed as a retrofit solution for diesel engine trucks enables these vehicles to be more eco-friendly, provide predictive maintenance schedules, and improve efficiency through route optimization.

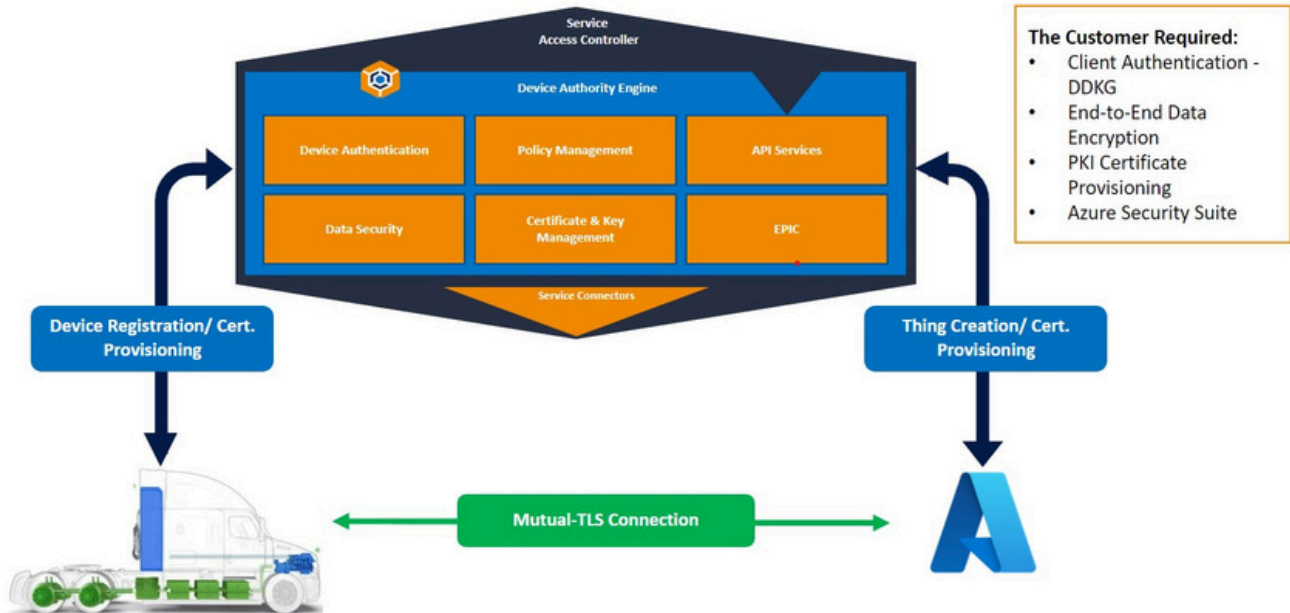
The organization required a solution to automate the Certificate Lifecycle Management of the X.509 certificates that are essential to secure the communications between the trucks and the Microsoft Azure IoT Platform.

Solution

Device Authority utilized the KeyScaler platform to provide:

- Truck-based device trust using KeyScaler's Dynamic Device Key (DDKG) trust anchor technology for powertrain comms module
- Automated Identity Lifecycle Management
- KeyScaler Security Suite for Microsoft Azure providing integration with Azure IoT cloud and Azure KeyVault for secure key storage

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Conclusion

Device Authority was able to provide solutions that enabled device-based security, ensuring that the data captured by the trucks can be trusted.

Overall, KeyScaler was able to reduce security management complexities by automating initial zero-touch device onboarding to Microsoft Azure IoT Hub through the Device Provisioning Service (DPS).

By choosing to automate its certificate management, the organization was able to utilize the workforce more efficiently meaning that they were able to shorten the time to market for new product introductions.



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