Secure Enterprise Public Key Infrastructure (PKI)

Case Study Summary

CUSTOMER
Top 3 Electric Car Manufacturer

INDUSTRY
Automotive

GOAL
Design and implement an enterprise PKI system

PROJECT SCOPE
- Requirements
- Architecture and Design
- Implementation
- Documentation
- Training

BENEFITS
- **Enterprise** three-tier PKI infrastructure
- **Secure** FIPS 140-2 compliant hardware key management
- **Robust**, flexible and resilient architecture

TECHNOLOGIES
- Primekey EJBCA
- Sophos Utimaco HSM
- OpenVPN
- VMware
- Linux

Background

As one of the world's leading electric car manufacturers, this automotive company is a visionary in their industry. They build practical, yet stylish electric cars for consumers. In order to meet requirements for security network communications between cars and a broad range of services that the company provides to passengers in the car, this auto manufacturer required a solution that can securely use cases, such as code and firmware signing and beyond.

The Solution

C2 Company engineers assessed and helped define the requirements for an enterprise-level PKI environment. This customer required a robust, flexible, and highly available PKI system to meet their needs for issuing certificates for cars, clients and code signing. To meet production delivery time lines, the PKI system was required to be designed, built, tested, and put into production within a short span of two months.

Leveraging best practices and industry experience, C2 company evaluated top PKI software and hardware vendors and available solutions. After a thorough examination of requirements and solutions, C2 Company proposed a PKI architecture leveraging open source Primekey EJBCA software, Sophos Utimaco HSM, VMware, Linux, and OpenVPN

The PKI system was built on a foundation of VMware and Linux operating system software an now provisions certificates to cars in production. C2 Company engineers led the implementation from inception to delivery of the final solution.

On-Time and Under Budget

Drawing upon broad and deep experience in security and heterogeneous technologies, C2 Company engineers designed and implemented a secure enterprise-grade PKI system capable of meeting the client's security needs on time and under budget.

We Can Help

C2 Company architects, builds, protects and maintains the networks and systems that enable enterprises to:

- **Accelerate IT's speed and business impact**
- **Minimize costs and risks**

To learn more about how we can help you too, contact us at 650.357.0100 or info@c2company.com.