

ACCESS CONTROL IN A PUBLIC KEY INFRASTRUCTURE ENVIRONMENT

Chrysalis-ITS

Chrysalis-ITS (a division of SafeNet, Inc.) has been safeguarding the security of information flow and ensuring trust in these infrastructure with a suite of sophisticated hardware root key protection products since 1994. Its flagship—Luna CA3—is one of the most secure and trusted hardware root key management systems in the Public Key Infrastructure (PKI) market. This system is used by over 125 financial institutions worldwide, the governments of the U.S., Canada, Israel, Korea, China, the UK, and Thailand as well as a number of vertical enterprises in the insurance or wireless industries.



Market-Critical Level of Security

To add a market-critical level of security and make Luna CA3 the highest Federal Information Processing Standards (FIPS 140-1 Level 3) validated security option, Chrysalis-ITS had these objectives for their portable memory device:

- ✓ High level of security to increase their marketability and client confidence
- ✓ Rugged and reliable to avoid down time and replacement costs
- ✓ Fully engineered system to reduce R&D costs and time-to-market
- ✓ Long-term support to avoid expensive re-design and implementation costs

The Solution is Key

Chrysalis-ITS chose a customer-specific LCK1000 Key from Datakey Electronics as its portable access control device. Serving as a first access point, the key stores cryptographic authorization codes for a specific number of users—up to 16—designated by the organization for secure access. According to Chrysalis-ITS co-founder and Chief Technology Officer Bruno Couillard, the original designer of the Luna CA3 root key



management system, “Chrysalis-ITS needed a sturdy, practical and reliable device to depend on for our new Luna CA3 product. I was familiar with Datakey Electronics devices, which have been in use in military cryptographic equipment for many years, and knew that we couldn’t go wrong. The Datakey Electronics Key is an ideal method for access control and authentication, and Chrysalis-ITS plans to continue to use it in future product generations.”

Fully-Engineered

The LCK1000 Key inserts into a high-cycle (200,000 insertions minimum) mating Keyceptacle®. Datakey Electronics’ KC4210PCB Keyceptacle provides intuitive operation, positive Key retention and an ergonomic “click” into position to offer tactile confirmation when a Key is inserted and turned. There is also a LOFO contact that may be used to protect the host bus by ensuring the Key has made secure contact with the receptacle before any signals are transmitted.





They Chose Datakey Electronics

Datakey Electronics' Keys have become a de facto element in the root key generation ceremonies performed with the Chrysalis-ITS Luna CA3 system in a broad range of information security applications. Chrysalis-ITS chose Datakey Electronics because of our ability to deliver rugged, reliable and durable solutions to the information security industry.



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