



# BlackICE HSM

Make the most out of your HSMs

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**BlackICE HSM by Gradiant provides a software solution that simplifies the management and integration of cryptographic hardware (HSMs) with financial services and applications.**

Financial institutions offer strong cryptographic systems based on hardware to protect the financial transactions of their clients. Although HSMs provide a secure tamper resistant environment they require specific expertise to integrate them with financial services due to their very limited interfaces. BlackICE HSM by Gradiant solves the complexity related to the HSM usage and management, facilitating the integration with the business processes.

- ✓ **Easy integration with the services** demanding crypto financial operations involving HSMs: PIN processing, card verifications, data integrity, etc.
- ✓ **Centralized management and monitoring** for keys and operations making easier the audit processes.
- ✓ **Support for multiple HSMs** avoiding the vendor lock-in and simplifying the key migration processes among different HSMs vendors.

## Features

### A. Unique interface for secure operation

- ✓ A common high level interface regardless of underlying HSMs infrastructure
- ✓ SDK for several programming language

### B. External secure key storage

- ✓ Financial keys are externally stored and protected with a master key which never leaves the HSM secure environment
- ✓ Unlimited key storage: There is no restriction regarding the number of keys that can manage.

### C. Centralized management and monitoring

- ✓ HSM infrastructure audit log
- ✓ Financial keys audit log

### D. User management and access control

- ✓ User account integration with the most relevant IDMs such as Active Directory
- ✓ Policy enforcement module for key usage and operations

### E. Migrations among different HSMs vendors

A key migration module based on TR31 standard format is available to operate with different vendors.

## Supported HSM vendors

### A. Financial purpose:

- ✓ Atalla
- ✓ Mainframe
- ✓ Gemalto (SafeNet EFT)
- ✓ Thales (payShield)
- ✓ Realsec (Cryptosec Banking)

### B. General purpose:

- ✓ Utimaco (Cryptoserver)
- ✓ Gemalto (SafeNet Luna SKS)
- ✓ Thales (nShield)

## Configuration and Installation

- ✓ Configuration process tailored to organization needs
- ✓ Hot plugging a new HSM as demand of crypto financial services grows is possible