

UbiQKeyMaster™ / UbiQKeyPartner™



Universal Key Management Software

UbiQKeyMaster™ takes smart card key management to a whole new level of sophistication with an intuitive graphical user interface that simplifies the management of even the most complex security requirements. UbiQKeyMaster™ is a universal smart card key management system that can support all of your smart card applications.

Harness the Security Advantages of Smart Cards

The security infrastructure of the smart card unlocks truly significant business opportunities. First, "Card Keys" provide a security process to protect against fraudulent card fabrication and issuance as well as losses due to fraudulent transactions. Second, "Application Keys" enable multiple, unrelated applications to reside on a single card - each with its own firewall. This capability allows card issuers to lease application space to business partners such as retailers, telecommunication providers, government departments, etc. UbiQKeyMaster™ provides the management facility and infrastructure to harness both the flexibility and the security of these keys across many business partners.

A Key Management Solution for Today and the Future

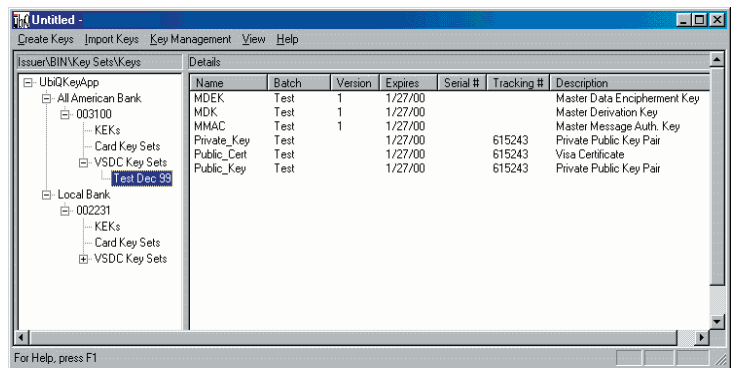
UbiQKeyMaster™ provides the flexibility to adapt to the key generation and import requirements of each application. A unique and powerful attribute of UbiQKeyMaster™ enables the application to be configured to the security needs of your smart card program. Thus, it meets your requirements for today's smart card applications and can adapt to your future requirements.

Easy to Use and Easy to Learn

The UbiQKeyMaster™ intuitive graphical user interface guides you through each step. Even the most complex smart card key and certificate requirements are easy to manage. View all key requirements for card products with a single mouse click. View the version and status of all keys. All major functions are initiated from one screen to minimize screen navigation and simplify training.

UbiQKeyMaster™ Tells You What Keys are Required

Each smart card product has numerous card and application access keys that are required for the personalization process. UbiQKeyMaster™ tells you what keys and certificates are required for each card and application, and guides you through securing the keys. Throughout the process, it provides screens that convey the exact status of each key - which ones have been generated/imported and which ones are still missing. Screen navigation minimizes training time, eliminates errors, and simplifies the complete key management process.



Adding Value Everyday



UbiQKeyMaster™ / UbiQKeyPartner™

Manage Many Smart Card Products with One Application

A key set refers to a bundle of keys for a smart card product. Without an intuitive method for associating each key to a key set, and each key set to a specific smart card product, the process for managing the keys for multiple smart card products is complex. In addition, it is vital to track versions of keys and clearly separate test keys from production keys. UbiQKeyMaster™ is designed to visually display the association of card and application key sets to specific smart card products. It clearly displays key versions and minimizes the possibility of accidentally using the wrong version of a key for both test and production purposes.

State of the Art Security

Central to the cryptographic processes with key management is the need for a Hardware Security Module (HSM). UbiQKeyMaster™ supports the Eracom Protect Server Orange cryptographic processor, a state-of-the-art e-commerce HSM developed by Eracom, which is in the form of a PCI board with sophisticated tamper resistant security. The Eracom Protect Server Orange meets FIPS 140-1 Level 3 and FIPS 140-2 Level 3 compliance.

Generate/Import Card Keys

Issuers must generate Card Keys to initiate the manufacturing, card transport and personalization security process. UbiQKeyMaster™ not only provides the tools to generate and store the keys in a secure environment, but also provides management facilities to organize the key sets for many smart card products in a single application.

Generate/Import Application Keys

The ability for multiple applications to reside on a single card increases the coordination efforts between the business partners (when placing their applications on the card) and the card issuer/owner. UbiQKeyMaster™ allows the card issuer/owner to generate keys for its own application and to import keys from each of the business partners. In addition, it provides an-easy-to-learn graphical user interface for managing the status of all keys for each smart card product. With a single click of the mouse, the status of keys for each business partner is instantly displayed.

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Certificate Management

Smart cards also incorporate electronic certificate technology. Many applications that reside on the smart card require a certificate from a certificate authority prior to card issuance. This process also requires the ability to generate private and public key pairs and the ability to export the public key to a specified certificate authority. Once the certificate is received, it must be securely stored until production personalization. UbiQKeyMaster™ simplifies this sometimes confusing process by guiding you through certificate requests and imports.

Test and Production Keys

When preparing for issuance of a new smart card product, test keys are required for application testing purposes and also for pilot programs. The source and security level of these keys often differ from those used for final production. UbiQKeyMaster™ accommodates the need to clearly identify test and production keys.

UbiQKeyPartner™ for Electronic Key Communication

UbiQKeyPartner™ facilitates the secure electronic transfer of keys to or from UbiQKeyMaster™. It is a scaled down version of UbiQKeyMaster™ with the same intuitive graphical user interface. Each UbiQKeyPartner™ must be registered with UbiQKeyMaster™ as an authorized partner. Once registered, keys can be securely transferred electronically, doing away with insecure manual processes traditionally used for key transfer between business partners.

The exchange between UbiQKeyMaster™ and UbiQKeyPartner™ also enables application owners to keep their application keys confidential from the central issuer. This is a vital feature to leverage the security capabilities of smart cards. Only application owners know the application keys resulting in maximized application security. A license for multiple copies of UbiQKeyPartner™ can be purchased as a part of the UbiQKeyMaster™ license.

System Minimum Requirements

- UbiQKeyMaster™ Application
- Windows® NT/2000/XP
- Pentium II Class PC
- 233 Mhz, 32M RAM
- 10 Megabytes disk space

HSM Requirements

- Eracom Protect Server Orange
- CryptoManager™

US Patent #5,684,742, #5,889,941, #6,014,748 Other Patents Pending