# **UTIMACO KeyBRIDGE UKM**

Product Master Deck

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Principal Product Manager

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SVP Payment Technologies September 2020







## About us





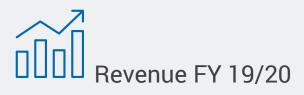
UTIMACO is a global **platform solution leader** of trusted Cybersecurity and Compliance solutions.

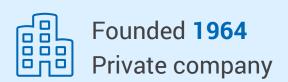
We are driven to take a leading market position by providing uncompromised Cyber Security solutions fulfilling the highest standards.

With responsibility for global customers and citizens we create innovative solutions to protect data, identities and communication networks.











330 highly skilled experts



**50+** years in IT and

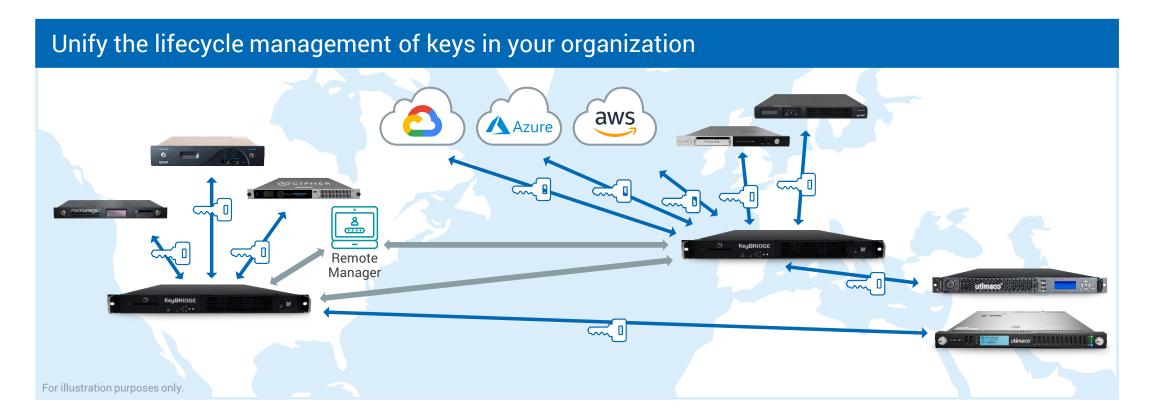
35+ years in IT-Security

# **KeyBRIDGE UKM 4100**



### **Executive Summary**

- PCI-PIN Certified Policy based Key Life Cycle Management incl. Distribution Control
- Unify your existing HSM key management landscape
- Remote HSM Operation & Management





#### Let's Understand the Market First!

- Dual HSM vendor
- Multiple Use cases
- Internal Organization





 Key management requirements grow due to compliance obligations



 Increased risk on policies and audit requirements









### Organizations that require heterogeneous HSM



to manage the
"different current HSM
Landscape" and
"ensuring consistency /
compliance"





Reduce expensive PCI
DSS errors as an
enterprise grows and
expands that leads to an
increase in repositories
and systems





To be compliant with **BYOK keys** in the cloud to manage and monitor the keys





### **Value Proposition**



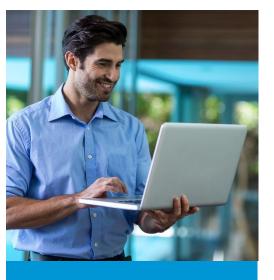
A **single pane** of **glass** to manage all your HSM keys



Automate and reduce key management manual errors



Monitor all your keys with an Audit trail



Remotely Access
the UKM solution;
limiting expensive
onsite visits and
cost/risk
associated

# **Key Management** — Common Interface for all HSMs



**Common Interface** for conducting Key Management Activities with a Heterogenous HSM Environment.

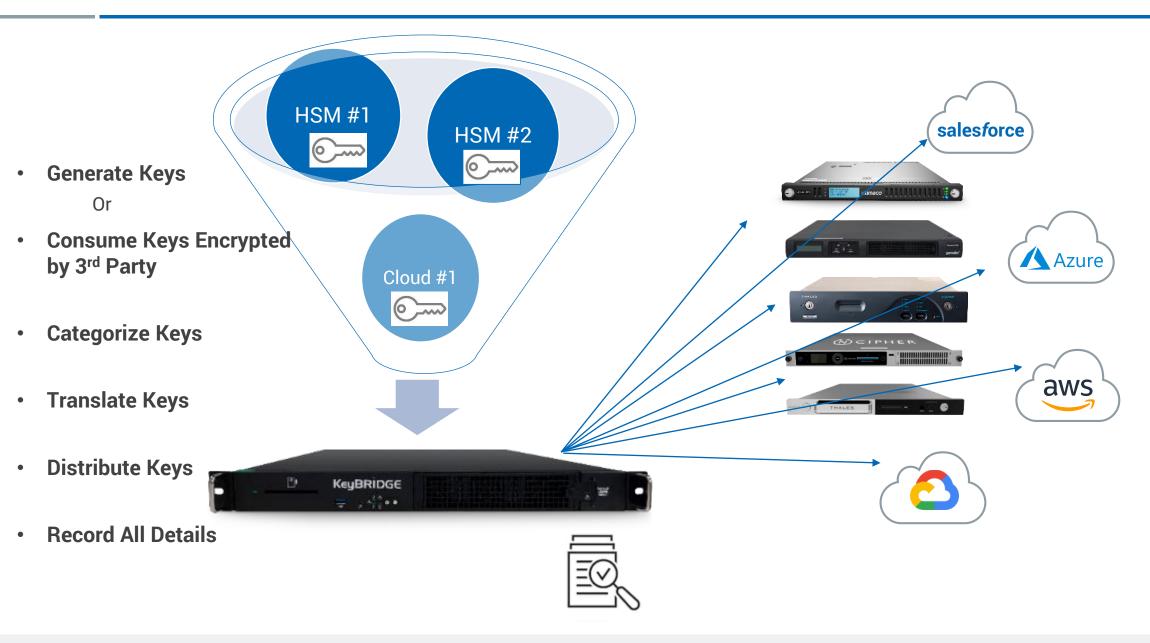
- **Import** via parts, blobs, cryptograms, or key blocks
- Export via parts, blobs, cryptograms, or key blocks
- Generate keys using FIPS certified RNG
- Rotate individual keys or entire inventory

**Translate** Keys among proprietary formats



# Centralized Key Management for Heterogenous Environment





# **Key Management** – Architecture (symmetric & asymmetric key Inventory)



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All Working Level Keys

**TDES** 

AES

**RSA** 

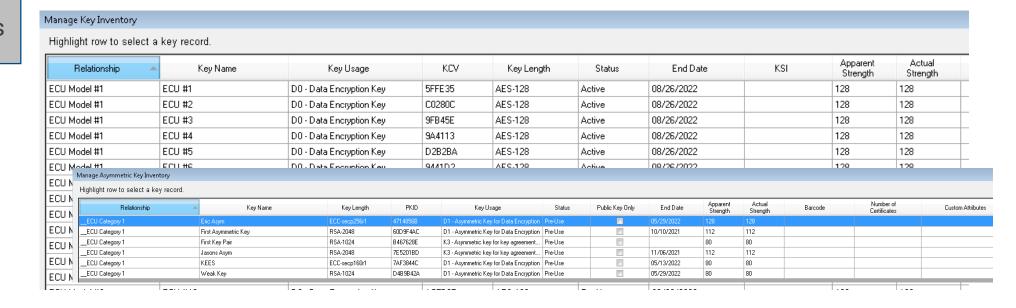
ECC

With Full Lifecycle History, Common & Custom Meta-Data, Accessible via RBACs

#### **Customize**

- Relationships
- Key Names
- Attributes

- Single Centralized View of Full Inventory
  - Filterable with multiple criteria
  - Customize Quick-View Access for Primary info
  - Enabling Drill-Down for detailed meta-data view



# Key Management - Architecture



All Working Level Keys
TDFS

**AES** 

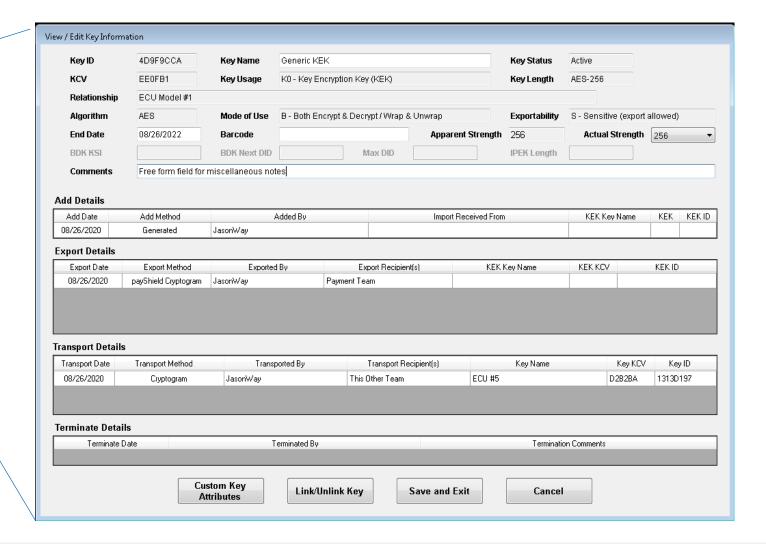
**RSA** 

ECC

With Full Lifecycle History, Common & Custom Meta-Data, Accessible via RBACs

Lifecycle management of each individual key

#### Drill Down – Meta Data View



# Use Case: Universal Key Management



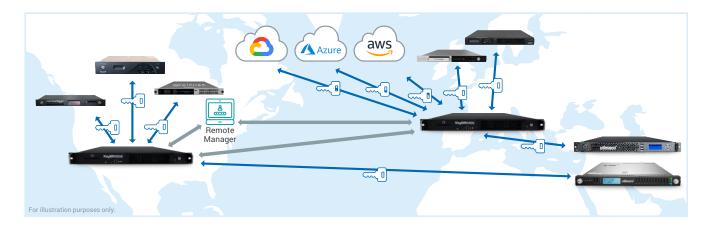
#### **Customer profile**

Merchant Acquirer with Environment



#### **Business Challenge(s)**

- Unify key inventory
   HSM key management landscape
- PCI-PIN Certified Policy based Key Life Cycle Management including Distribution Control
- Deploy Cloud BYOK in production



### **Demonstrate Compliance for Audit**

- Single Solution
- Streamline Written Policies/Procedures
- Single audit trail

UTIMACO KeyBRIDGE UKM

Manage and integrate existing HSM & Cloud Use Case under one umbrella



### **Physical Security**

- Built-in FIPS & PCI-HSM v3 certified HSM
- Built-in smart card reader
- Secure Cryptographic Device for Component entry



### **Logical Security**

- RBAC enforced with dual control and split knowledge
- Extensive audit logs containing the complex workflows with mapping to all required data elements
- Remote Centralized Key Management built on JSON schema RESTFul API



# **Summary**



- KeyBRIDGE UKM allows a business to simplify their Audit requirement
- Reduce risk & liability
   on the key custodian / officer
- KeyBRIDGE UKM built-in key management for both GP HSM and Payment HSM allows a business to have a single pane of glass / KB









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