## ENTRUST The *Future* of ENTERPRISE KEY MANAGEMENT

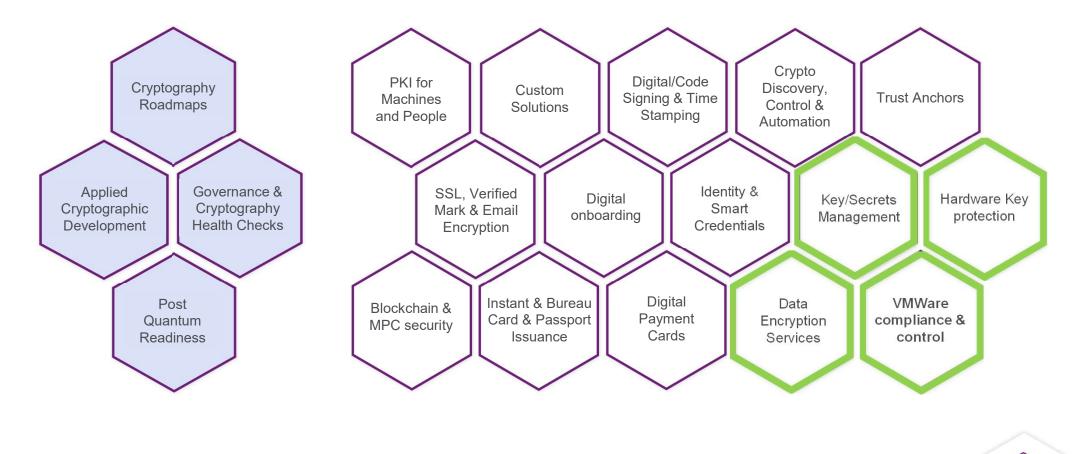
**KEY CONTROL v10** 

Peter Lupsic ENTRUST Sr. Sales Finance & Insurance DACH

**JUNE 2023** 



#### People, Process, Technology



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## Agenda

- Key Management Challenges
- Entrust Redefines Enterprise Key Management
- Key Compliance Manager Functions
- Sample Architecure
- Modular Licensing Model
- Q&A/Next Steps



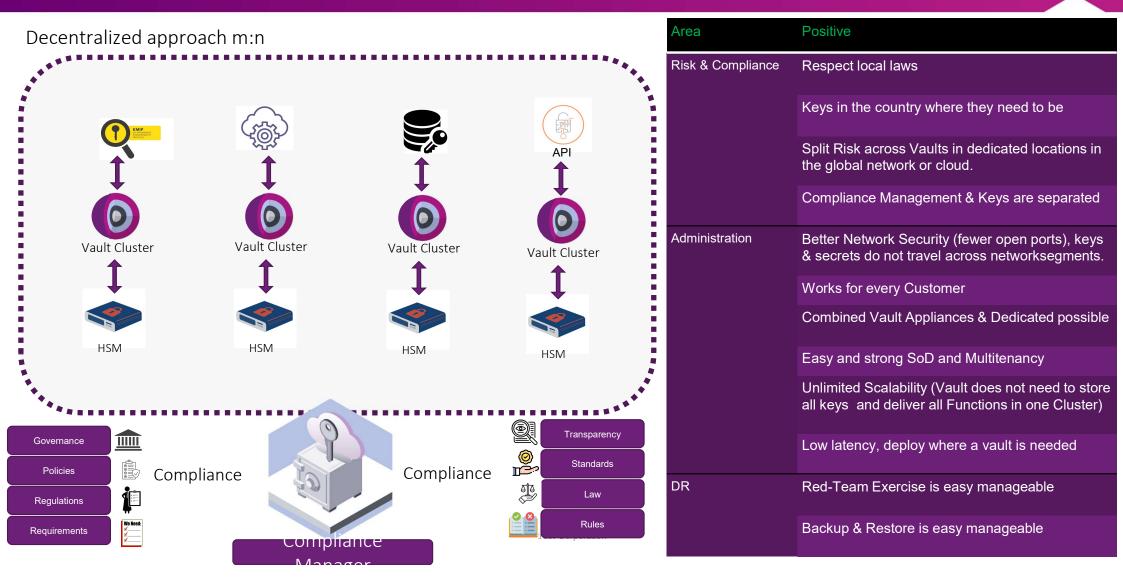
## Key Management CHALLENGES

- Compliance mandates
- Regulatory requirements
- Data Sovereignty mandates
- Best practices
  - Robust auditing and reporting
  - Documentation/ Standards say what you do, do what you say
- Security
  - Policies
  - Tight control of cryptographic assets throughout their lifecycle
  - Mitigating threats
  - Reducing attack surfaces
  - DR and contingency planning



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## **Enterprise Encryption Management**



#### Today's KMS Tools

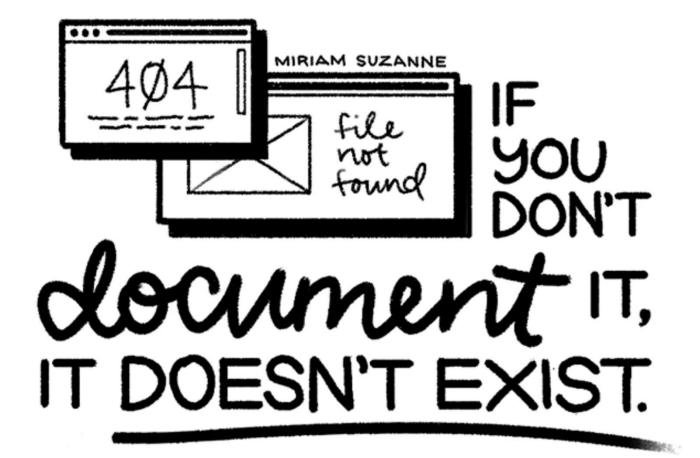
CEO European Tax-Agency:

"There are no KMS Systems, there are only Graveyards"

"On a graveyard you can read a name, a start- and an end date and maybe the religion, but you know very little about the person!"

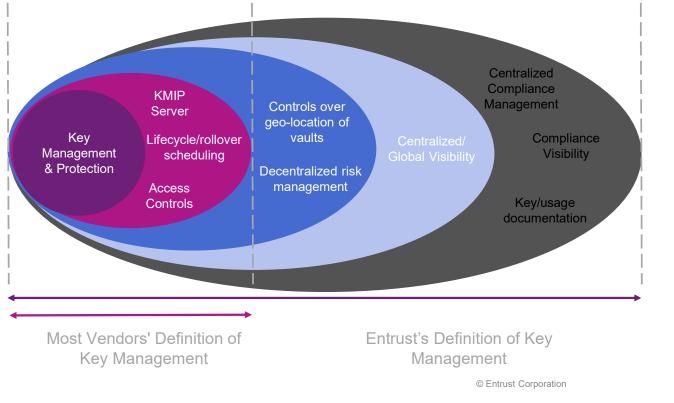
#### **Documentation?**

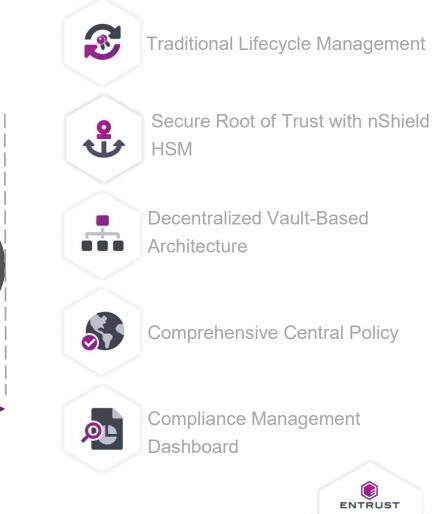
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#### Introduction

#### Entrust KeyControl redefines key & secrets management





## Centralized DECENTRALIZED Security

CeDeSec

Centralized governance and control, and decentralized storage and usage - these are key pain points for organizations right now.

They can't and won't centralize everything into one tool.

Erik Wahlstrom, Gartner

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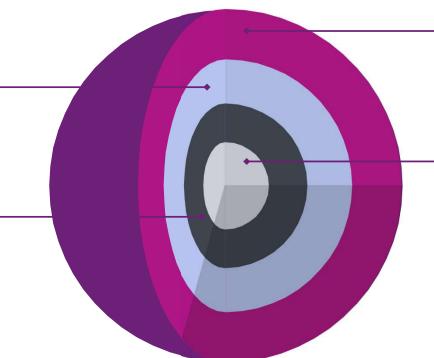
## The Vault



SSH-Proxy, Secrets management, DB Secrets management

#### Vault-Tenant

Every Tenant gets his own DB inside a Vault



#### Virtual Appliance

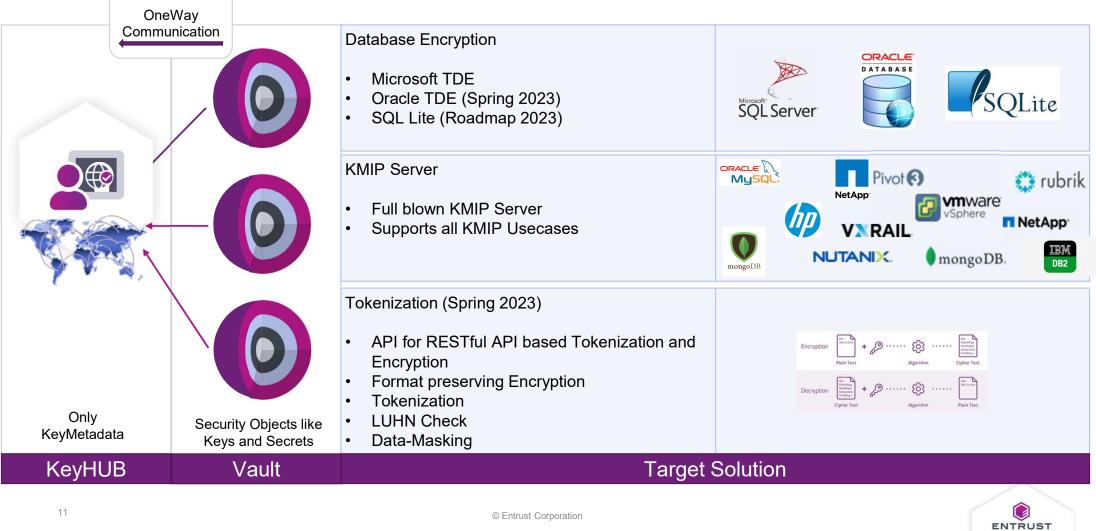
FIPS 140-2 Level 1 certified secure appliance.

#### KEYS & SECRETS

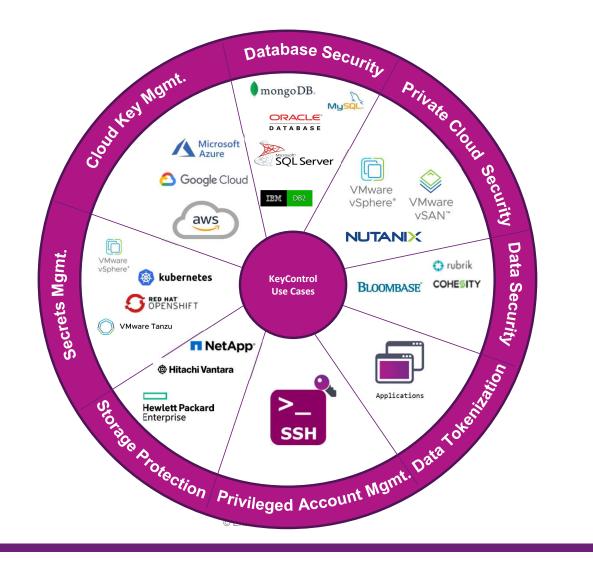
Secure Place for Keys and Secrets. For higher security needs the Appliance can utilize an external HSM like nShield and nSaaS.



## Vaults



## Vaults of KeyControl & integrations



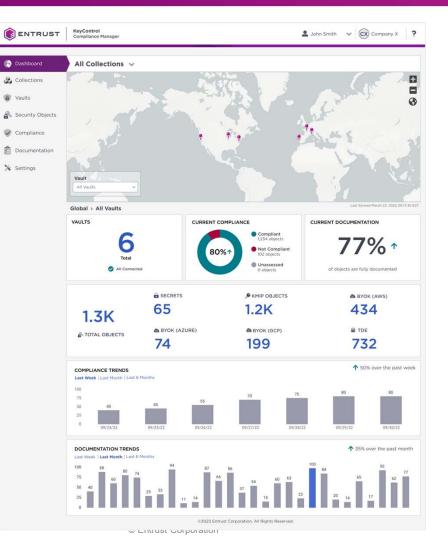
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#### **Key Control Compliance Manager**



- World Map visualisi1ng all Vaults
   and Cloud Keystores
- Global visibility "what is where?"
- Detail View per Vault on keys & Secrets
- Compliance & Trending
- Comprehensive documentation and audit capabilities



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#### **Key Compliance Manager - Functions**



- World Map visualizing all Vaults and Cloud Keystores
- Global visibility what is where
- Detail View per Vault on keys & Secrets
- Compliance & Trending

<ul> <li>Vault technical</li> <li>Vault Health, Location, Cluster size</li> <li>License management</li> <li>Receive Metadata for keys &amp; secrets from the Vault</li> </ul>	
<ul> <li>Metadata</li> <li>Receive vault keys &amp; secret metadata</li> <li>Request documentation on-demand via custom forms to vault owner, key owner or app owner.</li> <li>Key History</li> </ul>	Image: Wetadata + Documentation + History = KLM
<ul> <li>Policy management</li> <li>Industry Standard Policies (CIS; BS, NIST etc. for algorithm, , algorithm variant, key length and key age)</li> <li>Own written Policies</li> </ul>	Image: Second system       Image: Second system         Image: Second
<ul> <li>Risk management &amp; Compliance</li> <li>Calculate risk for given objects and vaults (applied policy, sensitivity, value of protected data, protection level of the key, age of the key etc.)</li> <li>Compliance level and trending for Vault, Region, Keys</li> </ul>	
<ul> <li>Process enablement</li> <li>Request documentation / update</li> <li>Inform on policy violations, and how to remediate</li> <li>Alert on key expiry (Key should be replaced, rotated, or deleted). I.e. Test &amp; Eval Key only accepted for 4 weeks.</li> </ul>	

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#### Redefining Enterprise Key Management

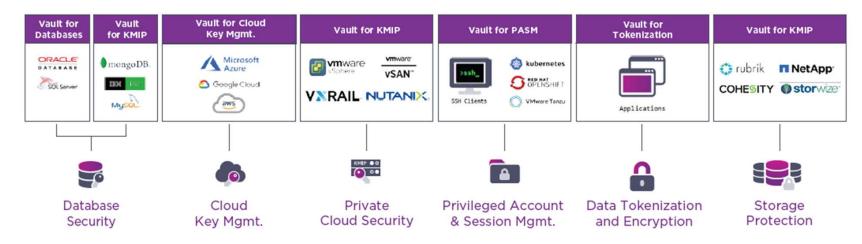
#### **KeyControl Platform**

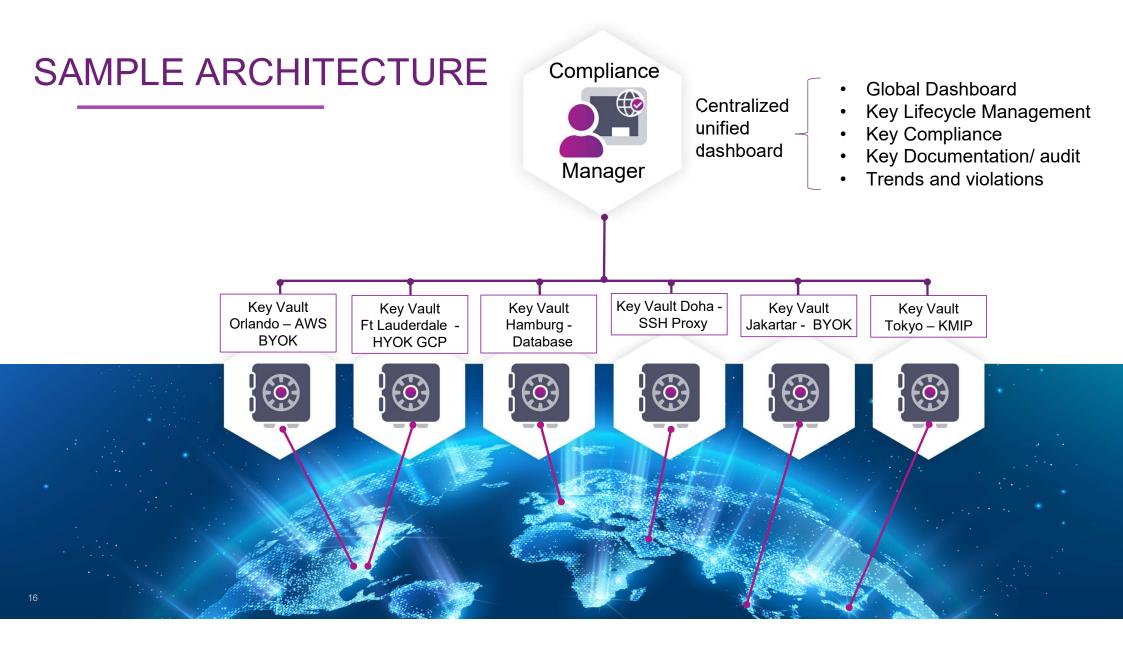
Enterprise Key Management & Compliance Platform

#### **KeyControl Compliance Manager**

Global Compliance Dashboard - Policy Enforcement - Granular Key Inventory - Audit/Risk

#### **KEYCONTROL VAULTS & USE CASES**

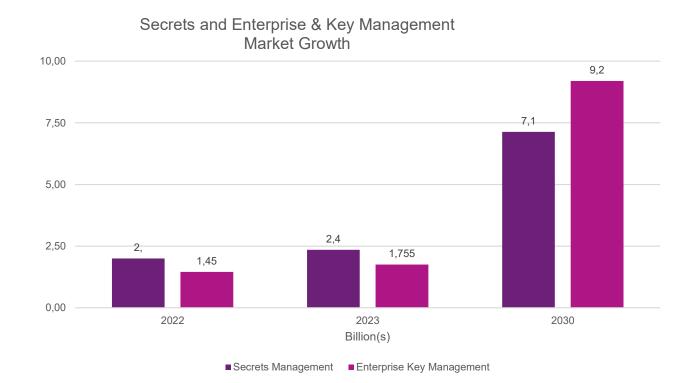




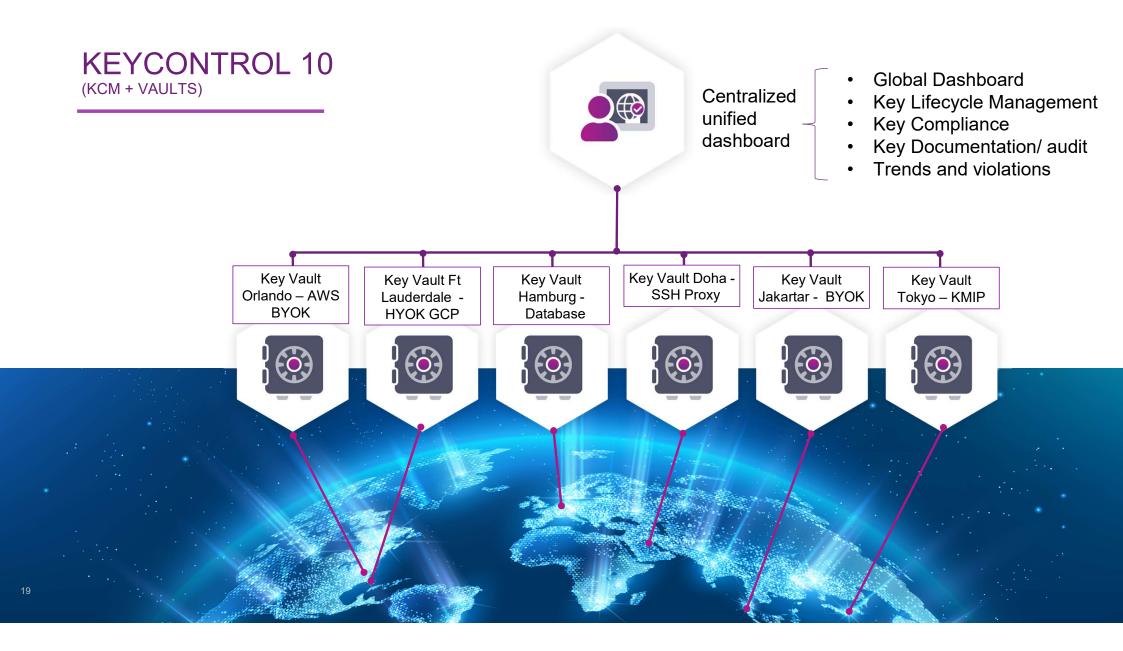
#### Market Leaders in Key and Secrets Management



#### Market Growth Opportunity



#### Source: Mordor Intelligence May 2023



## **KEYCONTROL 10**

#### KeyControl 10 Platform with KCM and the Vaults:

- Decentralized security with centralized visibility
- 1<sup>st</sup> real converged crypto platform
- 1<sup>st</sup> real key lifecycle management platform (KLM)
- Secure enterprise grade platform
- Keys & Secrets located where the are needed
- Vault Owner own the Keys
- Lawful
- Respect heterogenies IT environments
- Support private, public and hybrid cloud
- Wide area use-cases are supported
- "Red-Team Exercise", Networking, Backup & Restore are easy manageable
- Real-Time compliance and trending for C-Level
- And a lot more...



## **Questions?**



SECURING A WORLD IN MOTION

# **Thank You!**



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# **Supporting Slides**



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## **Enterprise Key Management Platform**

