Data Protection for Remote Users

The Problem

Data security is the highest priority for any business handling sensitive information. Organizations need to protect all their data, avoid silos and security gaps, and do this without disrupting operations.

This challenge is particularly acute for the growing number of organizations whose employees and partners work remotely, outside the relative protection of the enterprise security infrastructure.

The Capability

QuintessenceLabs' qSecure™ Work From Home encryption appliance addresses these challenges. It delivers persistent data encryption to mitigate against exposure of sensitive documents and files that can be potentially copied to external storage such as a flash drive or cloud storage, or attached to an email.

Simple to provision, and with centrally managed policies and auditing, it is built on the proven capabilities of QuintessenceLabs' Trusted Security Foundation® (TSF®) key and policy manager and PKWARE's Smartcrypt.

Use Case Examples

Use Case	Application
Microsoft Office	Transparently encrypt Word, Excel, PowerPoint documents, Outlook emails and attachments
File server	Transparently encrypt docs saved to file shares
Database	Transparently encrypt database contents
Document and file sharing	Persistent encryption, policies control decryption rights

How it Works

User workflow: The users have a normal MS Office experience, with access to typical functions such as New, Open, Save, Save as, Print, Edit, Share, and can drag and drop files to shares, devices and cloud storage

Administrator workflow: The administrator provisions and manages the service from the cloud-based administration console, which is also used to review audit logs. The system integrates fully with the organization's Windows Domain Controller.

Back-end instantiation and configuration are automatically managed by the administration service, with no need for physical device provisioning, management, or maintenance.

A Stronger, Safer Solution

The QuintessenceLabs' qSecure Work From Home encryption appliance delivers a stronger level of protection, control and usability than alternatives.

Encrypted files remain encrypted when copied or moved, delivering fully persistent encryption, contrary to competing products that encrypt on save and decrypt on open, exposing the data.

The originator has full control over who can access the documents, typically managed by Windows Group membership with external access managed by exception.

The qSecure Work from Home encryption appliance is fully managed, with administrative services orchestrating provisioning, billing, and admin operations. It is backed by the TSF key and policy manager hosted in the cloud, with integrated qStream™ quantum random number generator (QRNG) and FIPS 140-2 level 3 Hardware Security Module (HSM) for the highest levels of security.

Deployment Overview

The diagram below illustrates how QuintessenceLabs' qSecure Work From Home encryption application can be deployed, integrating the capabilities of our TSF key and policy manager in complement to cloud-based services and PKWARE'S Smartcrypt product suite.
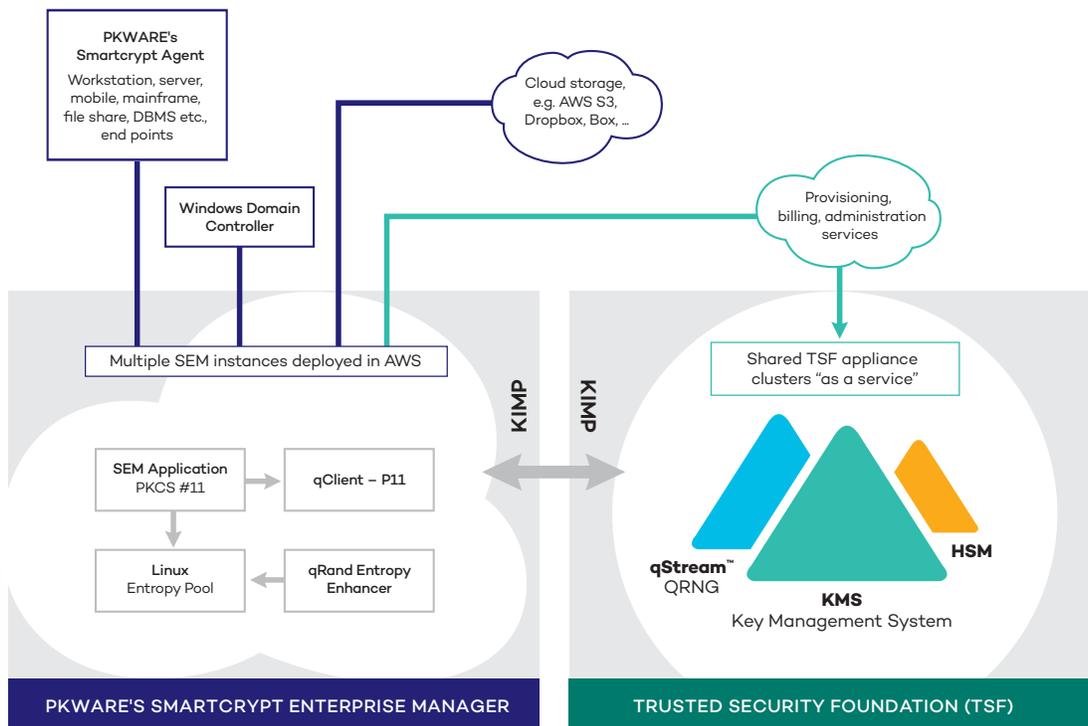
More on QuintessenceLabs' Solutions

QuintessenceLabs' security products enable organizations to protect their valuable data, through the combined power of quantum science and advanced data protection capabilities. qSecure is part of a comprehensive data protection portfolio, including:

- **qStream™:** high speed quantum random number generator (QRNG) delivering 1Gbit/second of full entropy random
- **qRand™:** entropy enhancer, feeding entropy to computers to maximize security and performance.
- **TSF®:** secure, centralized, and highly interoperable solution delivering critical key and policy management capabilities.

It manages keys over their full life cycle, implements strong object and user policy management, offers in-built replication — up to 16 nodes for maximum availability. The TSF® 400 key and policy manager incorporates a FIPS 140-2 Level 3 compliant Hardware Security Module (HSM), as well as the qStream QRNG.

About QuintessenceLabs

QuintessenceLabs' portfolio of modular products addresses the most difficult security challenges, helping implement robust security strategies to protect data today and in the future. For more information on QuintessenceLabs' data protection solutions, please visit www.quintessencelabs.com.

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