

## before migrating your payment HSMs

*Migrating your payment HSM is a big move, make it with confidence.*

### 1 **What are my HSM pain points and has the industry resolved them?**

Over the past decade, many challenges associated with managing HSMs have been overcome. Today, labor-intensive key management can be handled remotely, multiple applications can run on a single HSM infrastructure, and integration is streamlined by developer-friendly APIs. Our innovations in cloud HSM design, RESTful payment processing APIs, and dual-use HSM capabilities help you eliminate fragmentation and reduce operational overhead.

### 2 **Should we deploy our payment HSMs on-premises, in the cloud, or as a hybrid?**

Many organizations find that cloud and hybrid architectures offer significant scalability, resilience, and cost benefits. Leveraging public cloud services like AWS, Azure, and Google Cloud, our solution simplifies direct connections to cloud-based applications, enabling a smooth, secure migration that reduces infrastructure complexity for you. To learn more about Futurex's [VirtuCrypt](#) Access Point (VAP) architecture, [read our cloud payment HSM whitepaper](#).

### 3 **How have my throughput rates grown since we last deployed our payment HSMs?**

With the increasing number of electronic payment transactions in today's economy, payment HSMs are having to handle vastly higher throughputs. Futurex's [Excrypt SSP Enterprise v.2](#) has the **fastest transaction processing of any payment HSM in the world** at >50,000 TPS and beyond.

### 4 **Does my payment application provider have a cloud migration playbook?**

Many payment application providers now offer cloud-native solutions or managed SaaS options. If your provider lacks a clear cloud migration strategy, it's crucial to explore their approach to integrating encryption. Our experienced team can help you design and execute a robust cloud strategy that ensures smooth, secure integration.

### 5 **Has managing large groups of HSMs in different locations been a challenge?**

Legacy environments often require managing HSMs on a one-to-one basis—an approach that is time-consuming, error-prone, and costly. Our “single pane of glass” management solution, through Guardian Series 3 and Excrypt Touch, centralizes configuration, monitoring, and remote key loading, reducing complexity and operational costs for you. Futurex's [Guardian Series 3](#) provides centralized configuration, monitoring, alerting, and orchestration for HSM environments, while the [Excrypt Touch](#) offers full remote management and key loading.



**6*****Do I have general purpose HSM use cases in my enterprise ecosystem?***

Many organizations run HSMs solely for payments or general-purpose tasks. Our unique CryptoHub HSMs support both functions simultaneously, enabling you to consolidate operations, reduce costs, and improve overall efficiency across your cryptographic ecosystem.

**7*****What applications will I be running in my payment HSM environment?***

Historically, payment application developers have been slowed down by unaccommodating APIs. Futurex HSMs support standards-based interfaces (such as PKCS #11, Java JCA/JCE, or Microsoft CNG), multiple legacy payment APIs for near-universal application compatibility, and a modern, RESTful web API. These can help your developers greatly accelerate your time to market, quickly respond to emerging industry trends, and replace legacy HSM vendors with no application code changes required.

Additionally, if your organization runs multiple applications in a single ecosystem, HSM virtualization is a great way to increase the ROI of your HSM infrastructure. A multi-tenant approach is ideal for an organization that wants to reduce its HSM footprint while continuing to scale with growing application integration needs.

**8*****Is deploying HSM/Managed Key Services across our enterprise an executive priority?***

Increasingly, organizations are moving towards unified, managed HSM solutions to streamline encryption across the enterprise. Many organizations are beginning to deploy HSM/Managed Key Services to provide a unified platform for cryptographic resources throughout their enterprise. This simplifies centralized management, cuts costs, while enhancing security and agility.

**9*****How do we address evolving cyber threats and emerging compliance regulations?***

As cyber threats and regulatory mandates evolve, it's vital that your HSM infrastructure adapts. Our solution offers continuous updates and proactive monitoring, ensuring your system stays ahead of new threats and meets changing compliance standards without disrupting your operations. Make sure your HSM solutions are PQC-ready and offer hybrid certificates to help you bridge today's threats with tomorrow's challenges.

**10*****What is more preferential to my accounting department, CapEx or OpEx?***

Our versatile deployment options allow you to choose between CapEx and OpEx models. This flexibility enables you to scale your HSM infrastructure cost-effectively while aligning with your organization's budgeting and operational requirements deployment options. Whether your organization would prefer its HSM infrastructure budgeted as a CapEx or OpEx expense may inform your decision regarding cloud or on-premises deployment, as well as your need for scalability.