



payShield 10K Product Update – PCI HSM v4

Thales Elevates Payment Security with PCI HSM v4 Certification for payShield 10K

Thales payShield 10K Hardware Security Module (HSM) has officially achieved PCI HSM v4 certification. This milestone reinforces Thales' commitment to securing the global payments ecosystem against increasingly sophisticated cyber threats.

As the industry transitions from PCI HSM v3 to v4, the payShield 10K provides enhanced physical and logical security, stricter lifecycle management, and superior firmware integrity. This certification applies to both existing deployments and new purchases of payShield 10K running software version 3.0a or later. enabling customers to benefit from the new standard across their installed base and future investments. This certification ensures that payment processors, fintechs, and issuing banks can maintain seamless compliance while accelerating digital payment innovation.

payShield 10K: Key PCI HSM v4 Benefits

Benefit Category	Enhancement	Business Impact
Authentication Controls	Expanded defense-in-depth protection and modern threat mitigation.	Mitigates the risk of unauthorized access, privilege misuse, and physical tampering.
Firmware & Software Integrity	Enhanced secure boot, firmware validation, and integrity protections.	Mitigates sophisticated firmware and insider attacks.
Lifecycle Management	Expanded end to end lifecycle management and maintenance.	Lifecycle security: provisioning, deployment, maintenance, and decommissioning.
Audit & Compliance	Granular logging, monitoring, and traceability requirements.	Increased trust for regulators, partners, and customers.
Operational Resilience	Enhanced protection for PIN, EMV, and card issuance.	Minimizes downtime and prevents fraud in high-volume environments.

By meeting these rigorous new standards, payShield 10K delivers unmatched protection for PIN management, EMV transactions, and cryptographic key lifecycles. Organizations can now leverage a future-ready infrastructure that reduces operational risk, prevents fraud, and builds deep trust with regulators and customers alike.

Thales continues to empower financial institutions with the high-performance, scalable security required to navigate today's rapidly evolving digital landscape.



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About Thales

Thales is a global leader in cybersecurity, helping the most trusted organizations protect critical applications, data, identities, and software anywhere, at scale. Through Thales' integrated platforms, customers achieve better visibility of risks, defend against cyber threats, close compliance gaps, and deliver trusted digital experiences for billions of consumers every day.