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REDUCE OPERATING COSTS BY MANAGING PAYSHIELD HSMs REMOTELY

payShield Manager enables security teams to perform all tasks remote from data centers, reducing costs and delivering greater operational efficiency. It is a hardware security module (HSM) management tool specifically designed for the Thales payShield 9000 HSM that operates in both local and remote modes via a standard browser interface. A secure connection to the HSM underpinned by smart card access control enables key management, security configuration and software/license updates to be carried out remotely from the data center. Flexibility to check the operational status of any HSM is also provided via a dedicated, restricted operator role.

Key Benefits

- Reduces operating costs by eliminating the need to manage HSMs inside data centers
- Provides 24 x 7 management even when local physical access to HSMs is not available
- Offers convenient method for regular monitoring checks by restricted users
- Scales easily to support a large estate of HSMs deployed across multiple locations
- Operates seamlessly with VPNs, anti-virus software and firewalls
- Adapts rapidly to evolving organizational needs through management of a white list for device access

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payShield Manager

payShield Manager

FEATURE OVERVIEW

User interface

- Standard browser – identical interface for both local and remote modes of operation
- Rapid navigation via intuitive menu system using web-based accordion presentation style and simple parameter selection
- Virtual Console provides support for customer-specific Console commands

System configuration

- Factory Warranting process to establish trust model for HSMs and smart cards
- Customer Commissioning process to facilitate secure initialization
- Creation and management of separate domains of HSMs
- Management of security personnel (administrators and operators) incorporating personalized smart cards for secure access control
- Allocation of security personnel to individual HSMs and selected operations

Local and remote device management

- Online, offline, secure and authorized state operations with smart cards used as substitutes for physical keys during local and remote operations
- Local master key (LMK) management – generation, installation and migration
- Interface management – host, alarm, management and printer port settings
- Security configuration settings
- Loading of firmware and license files via HTTPS session
- Audit trail and error log management
- Diagnostic information – including utilization statistics, configuration settings and health check data

Virtual Console

- Generate keys
- Import keys
- Export keys
- Access to all non-smart card-based Console commands
- Access to custom Console commands

Security

- Strong mutual authentication for establishment of remote session
- Data encryption to protect all data between user smart card and HSM
- AES 256-bit session keys, ECC 521-bit certificates
- GlobalPlatform compliant smart cards with Thales applet – secure distribution from approved source, not available on open market

Solution components

- PC or laptop (to be supplied by the user) to be used for the local or remote workstation supporting an Internet Explorer or Firefox web browser running on any operating system
- USB-connected or built-in standard PC/SC smart card reader
- Thales Warranted smart cards for remote access
- Remote Management software license for each HSM is required to operate in the remote mode of payShield Manager

HSM Compatibility

- payShield 9000 - software built on base V3.0 or later

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