

## BENEFITS AT A GLANCE

- Eliminates usable cardholder data from POS applications, networks and servers
- Protects against data compromise even in the event of a security breach
- Should not require changes to POS software or procedures
- PCI PED approved hardware security module encrypts card data as soon as it is swiped



## Encrypts card data to prevent compromises

Maintaining constant vigilance over every retailer access point and every place where data is stored or transported is a challenge that will likely never be fully met. Even with PCI DSS compliance, breaches can still compromise credit and debit card data. That's why VeriFone developed VeriShield Protect—a breakthrough payment card security solution that ensures no cardholder data can be compromised even in the event of a breach. And it can be implemented without requiring changes to most existing POS and enterprise applications.

VeriShield Protect shields credit and debit account information from the moment a card is swiped until the data is received at a secure decryption appliance located in a retailer's secure data center, at an off-site service provider, or at an acquirer or processor organization.

The VeriShield Protect system employs a breakthrough technology called H-TDEST™ (Hidden-Triple Data Encryption Standard) to encrypt the personal account number (PAN) and magnetic-stripe track data in a manner that other applications interpret as valid card data. The encryption is processed within the tamper resistant security modules of VeriFone's existing PCI PED approved payment systems protecting it from hackers.

Card data is never in an unprotected state while in your systems until it is decrypted by the decryption appliance.

VeriShield Protect is compatible with all card types (credit, PIN debit, signature debit, loyalty, fleet, pre-paid and gift cards) and can be installed without disruption across a retailer's


entire enterprise. VeriShield Protect guards cardholder data across a retailer's entire network, without any changes at the POS application level. Retailers save time and money with fewer modifications and system disruptions.

Count on VeriFone's VeriShield Protect for unrivaled payments security.

# VeriShield Protect

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## Innovative Technology To Secure Your Business

	BIN ROUTING	H-TDES	LAST FOUR	TRACK DATA RESIDENT ON CARD
	435688	760033	1588 =	08119212884426940234
VeriShield Protect	435688	298101	1588 =	20017632108900331272

Track Data encrypted with Hidden Triple DES (H-TDES)

Cardholder data is never exposed in the retailer environment once VeriShield Protect is used. H-TDES™ sophisticated encryption technology reformats the raw cardholder data received by the POS device so that it never enters the retailer's system.

### Features & Benefits

#### Eliminate the potential for compromise of customer card data

- Remove danger of theft of data in transit or data at rest
- Vastly simplifies retailer security
- Real-time status and alert system to ensure integrity at the card swipe

#### Confidence in retailer operations

- Compatible with multiple payment card types —credit and debit; gift cards and loyalty
- Transparent to the user of the payment device
- Keeps retailer systems free of information that criminals target

#### Ease of use, ease of installation

- Requires no extra steps or training for the retailer
- Accomplished through VeriFone payment devices and a secure network appliance
- Fewer system interruptions mean better integration and enhanced convenience for retailers
- Should require no software changes at the POS application level

#### SYSTEM COMPONENTS

- VeriFone payment systems
- H-TDES secure key injection
- Secure network decryption appliance
- Cipher Device Metrics Server (CDMS)
- VeriShield Protect will be supported on the following VeriFone products: MX830, MX850, MX860, MX870, Secure PumpPAY, V<sup>x</sup> 510, V<sup>x</sup> 570, V<sup>x</sup> 610, V<sup>x</sup> 670, V<sup>x</sup> 810, V<sup>x</sup> 810 DUET

VeriFone provides the VeriShield Protect module in the payment terminal. The decryption appliance and CDMS service are provided by Semtek.