

The Federal Reserve Bank of Chicago Payments Conference

May 20th, 2011

VeriFone

The leading global provider of technology that enables secure electronic payment transactions

- VeriFone Systems, Inc. (“VeriFone”), NYSE: PAY
- Founded in 1981
- 2,500 staff
- \$1 billion Revenue in FY2010
- Active in over 110 countries
- No. 1 or No. 2 share in all our markets
- Systems installed in over 20 million locations globally



The Transformation of “Payments”

Point of Sale



- One-Way Communication
- Simplistic
- Anonymous

Point of Interaction



- Two-Way Dialogue
- Complex
- Personal

The Transformation of “Payments”

Point of Interaction



Point of “Intelligent checkout”

- + Knows who you are (opt in)
 - + Know where you are
 - + Knows your coupons
 - + Is trusted, safe, secure
 - + Single User Interface
 - + Clean Seamless Experience
-
- = Intelligent Checkout

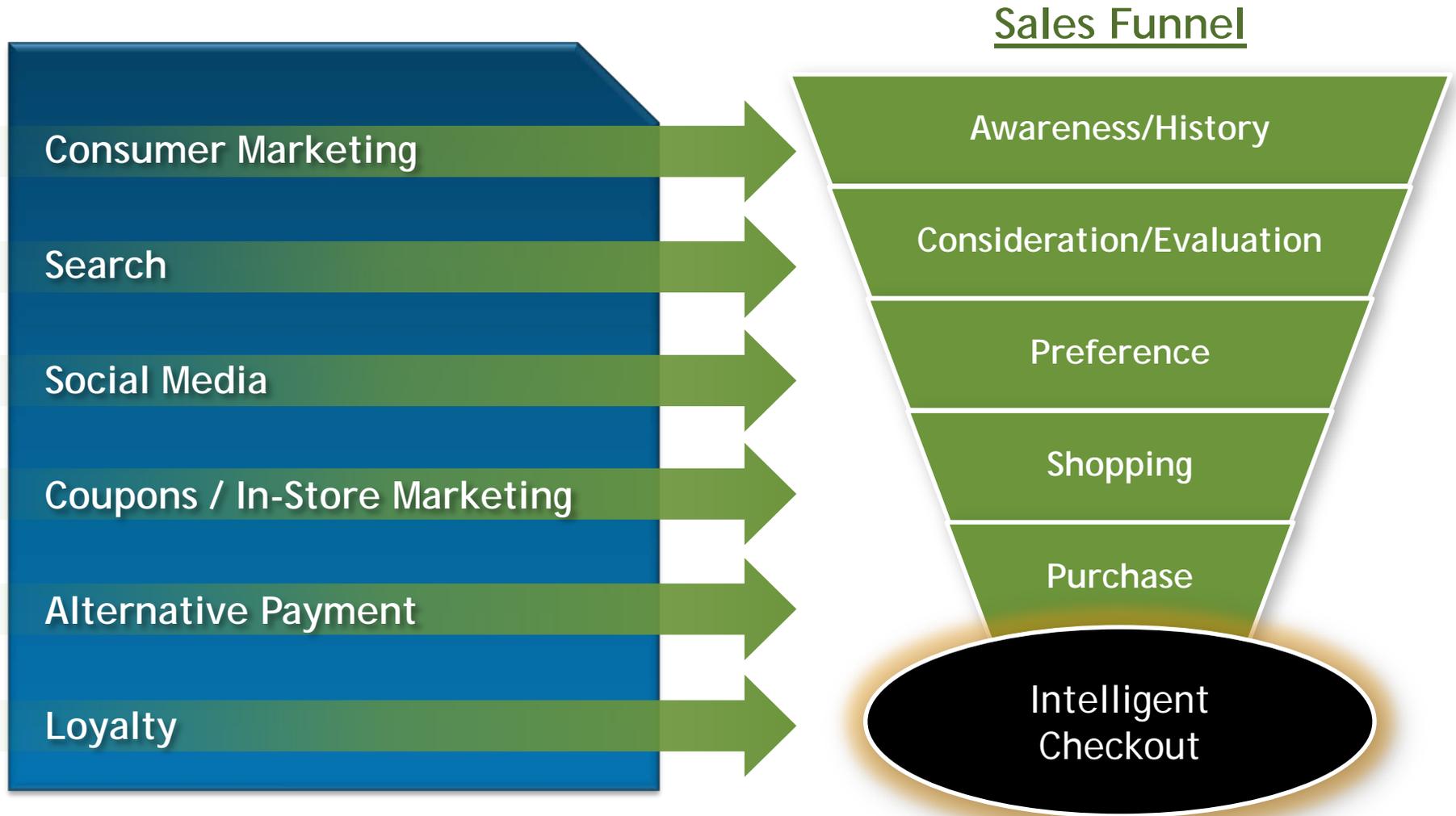
Who Wants In?



Mobile Drives the need for Intelligent Checkout



The Sales Funnel of the Future Converges at POS



The POS Is Beach Front Property....



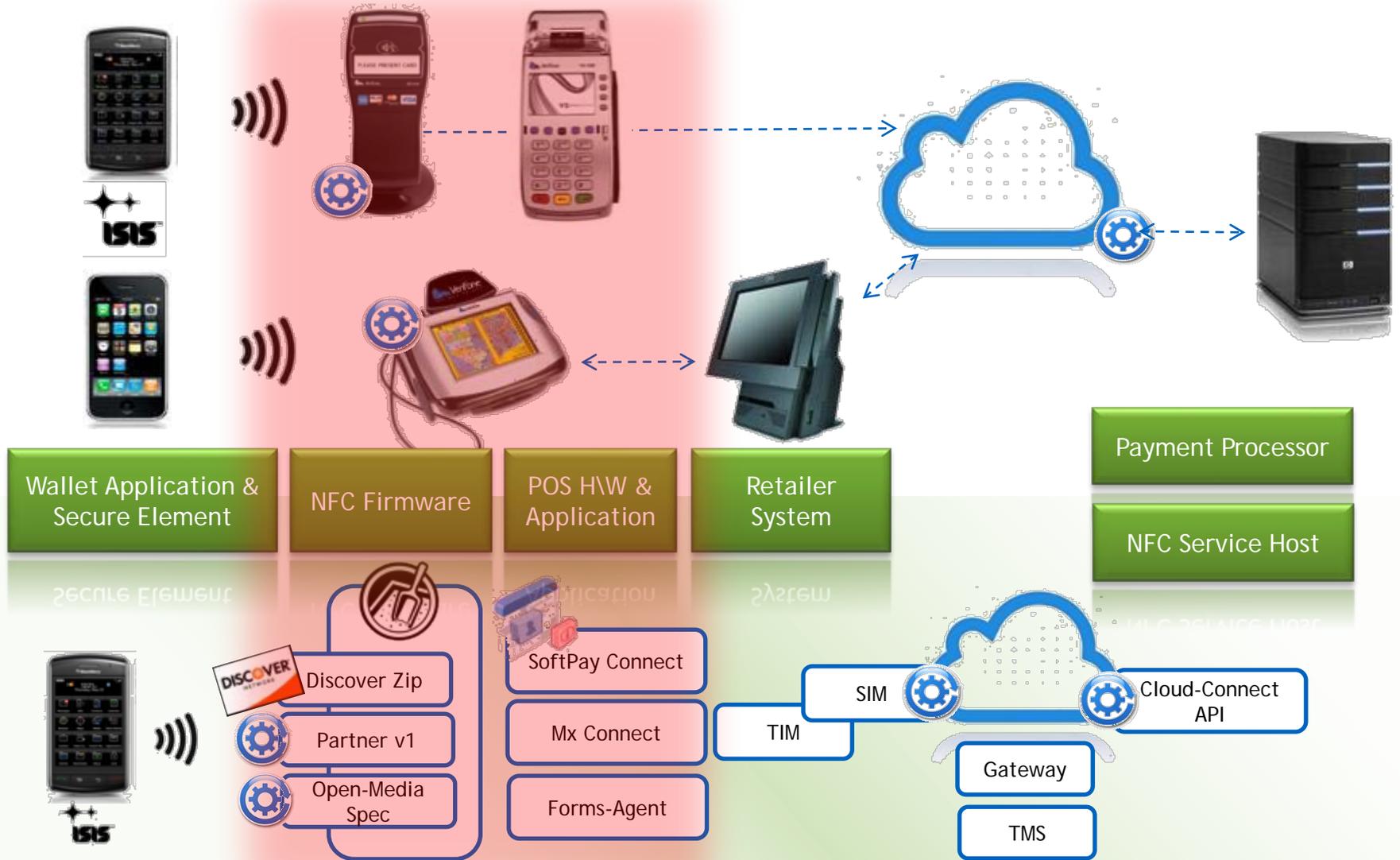
VeriFone already has the real estate at checkout and the strong relationships with retailers.



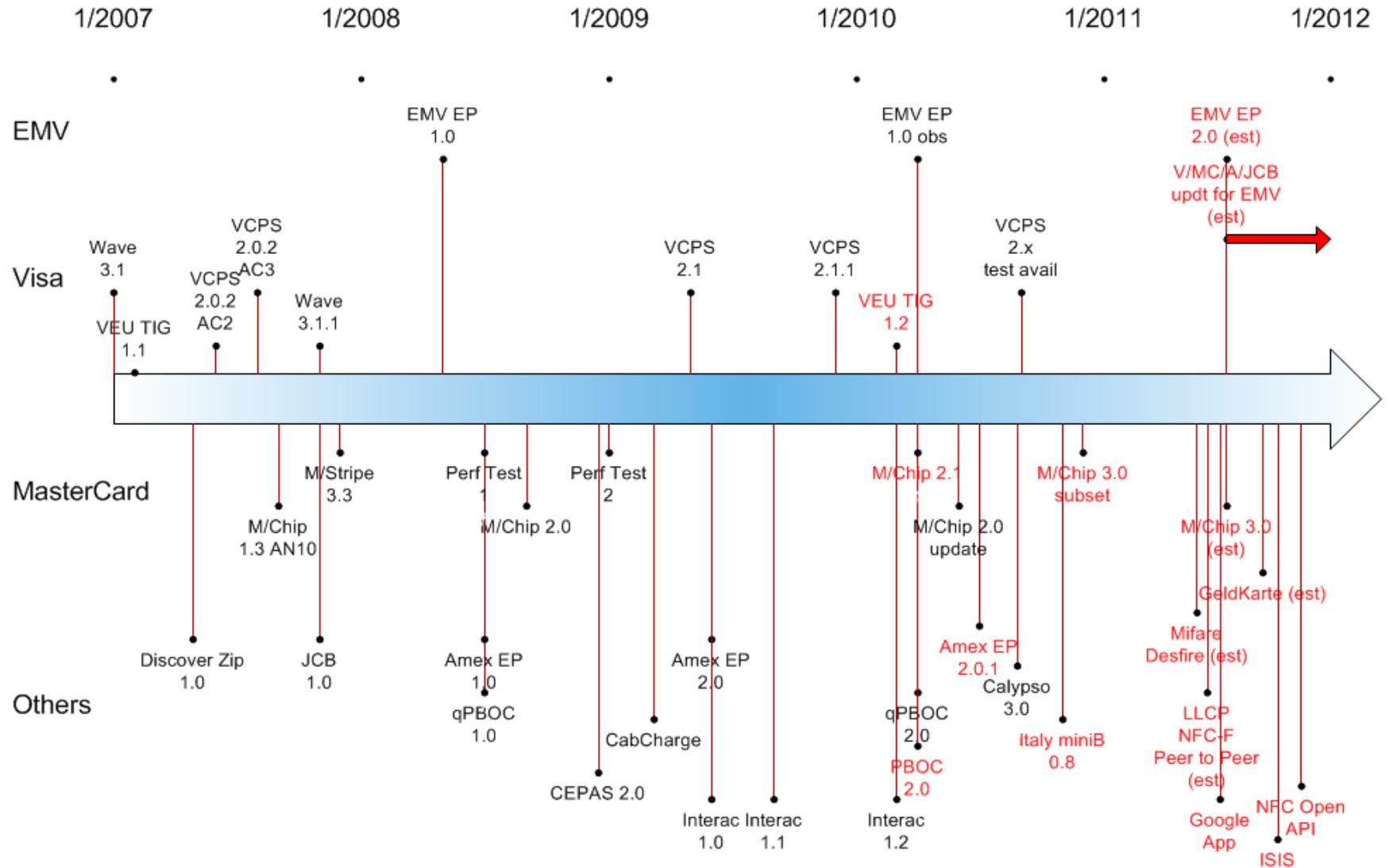
Understanding the Architecture



Understanding the Architecture and management challenges



Contactless & NFC Software Update Roadmap



Managing Multiple New Services at Checkout

Cards

 payWave

 PayPass

 Zip

 ExpressPay

Wallets







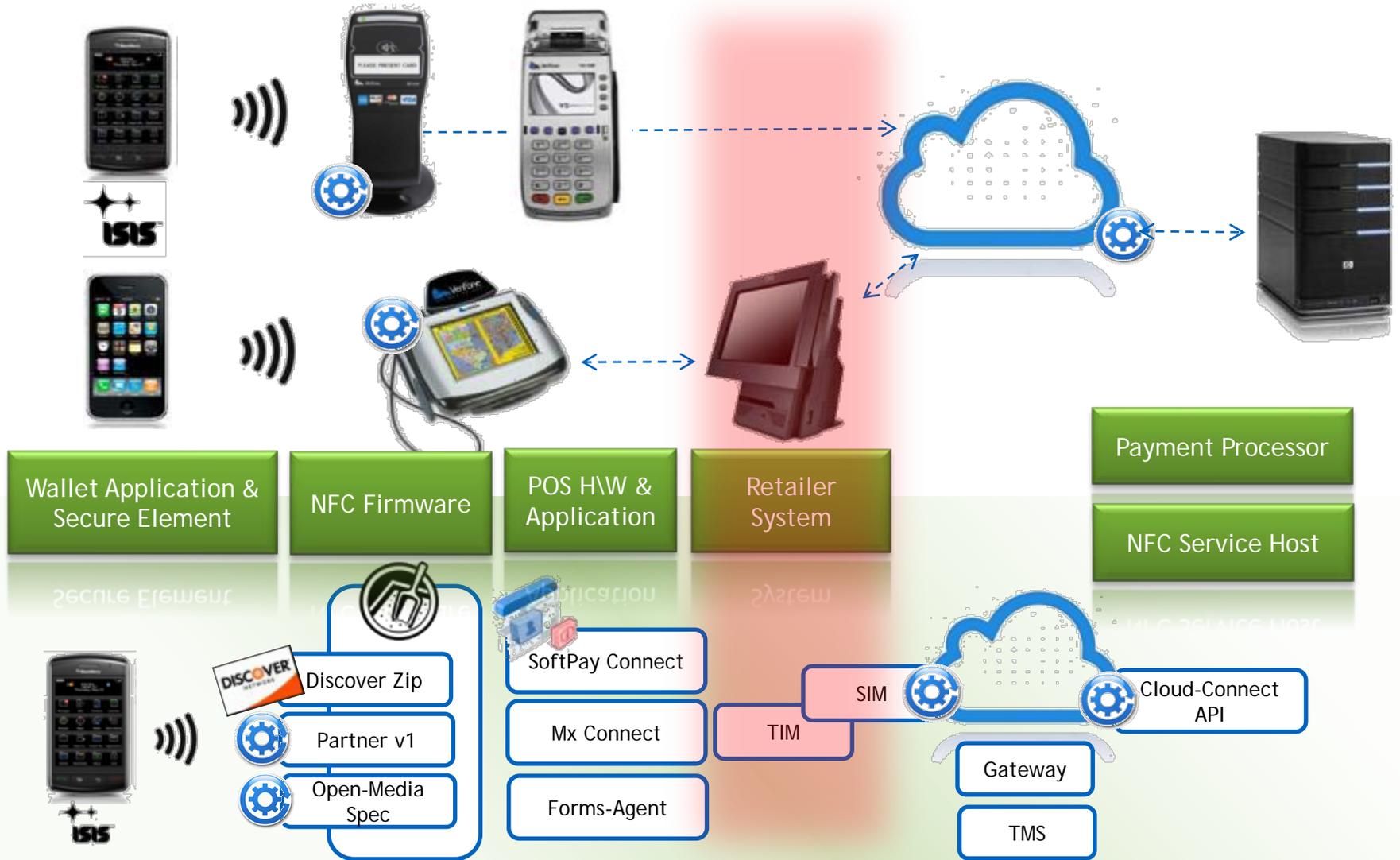




And so on....



Understanding the Architecture and security challenges



Solving for Credit/Debit Payment System Vulnerabilities

- CRIND-tampering

- Wireless access

- Network access

- Unencrypted data
- Network access
- Chargeback files

VISA DATA FIELD ENCRYPTION BEST PRACTICES

| Security Goal | Best Practice |
|--|---|
| Limit clear text availability of cardholder data and sensitive authentication data to the point of encryption and the point of decryption. | 1. Clear text cardholder and authentication data shall only be available at the point of encryption and decryption. |
| | 2. All cardholder data shall be encrypted using only approved encryption algorithms (e.g. AES, TDES). |
| | 3. All cardholder data and |
| | 4. Sensitive authentication |
| Use robust key management solutions consistent with international and/or regional standards. | 5. Keys shall be managed |
| | 6. All keys and key compo |
| | 7. Documentation |
| | 8. a) Keys shall b |
| Use key-lengths and cryptographic algorithms consistent with international and/or regional standards. | 8. b) If remote ke |
| | 9. Keys used in th |
| | 10. Encryption ke |
| | 11. FPE must be e |
| Protect devices used to perform cryptographic operations against physical/logical compromises. | 12. Devices used to perfor hardware and software |
| | 13. Keys shall be protecte and their integrity and a |
| Use an alternate account or transaction identifier for business processes that requires the primary account number to be utilized after authorization. | 14. If any cardholder data |

ENCRYPTS CARD DATA TO PREVENT COMPROMISES



VERISHIELD PROTECT

- Eavesdropping on store corporate network

terminals

- PINpad-tampering
- Skimmers
- Overhead cameras
- Rogue applications

- Vastly Simplifies Retailer's Security
- Eliminates usable cardholder data from POS applications, networks and servers
 - Encrypts card holder information, at the exact instant of acceptance, inside a secure, trusted VeriFone payment device and keeps it encrypted throughout your enterprise
 - Compliant with Visa's best practices for data field encryption
 - Brings you closer to PCI DSS compliance and may reduce costs of auditing
 - Supports broadest range of card payments, whether they are magstripe, contactless or EMV-based,

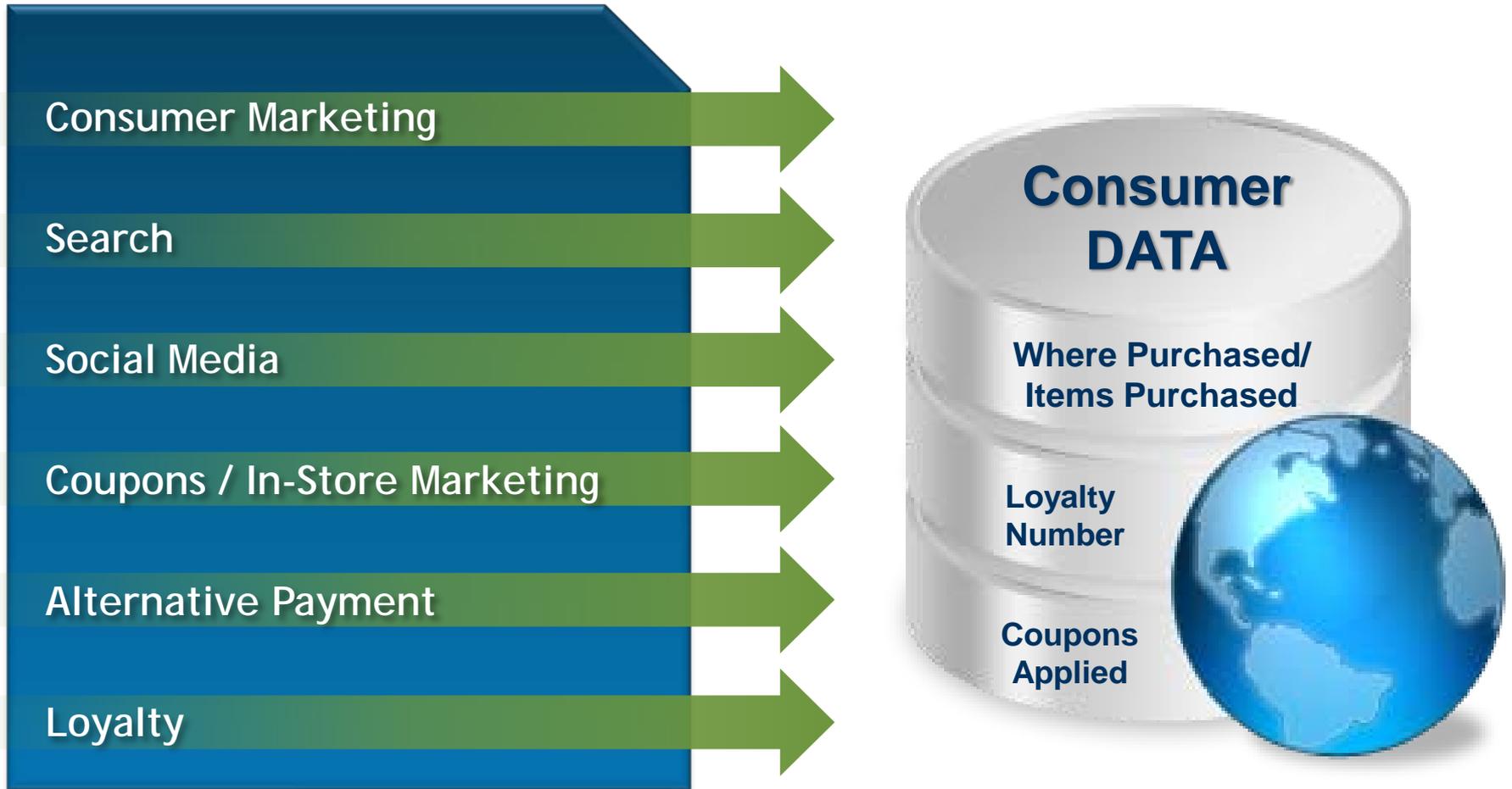


Cardholder data is never exposed with VeriShield Protect. VHE protects the raw cardholder data received by the POS device so that is never at risk and is safely transmitted to the DA. The DA can be managed at the retailer, off site or at the acquirer/processor.

- Passwords

- Passwords

Mobile Introduces a whole new world of data to protect...



Beginning to Enable Intelligent Checkout in Taxis

From...

- Securely Processing Traditional Payments
- Providing advertisers with a truly captive audience with significant "dwell time"
- Targeting demographics, psychographics, time of day, and real-time location

to

- Enabling social and location-based interactivity between marketers and consumers
 - NFC, SMS & QR codes
 - Digital & paper coupons/receipts
 - Customer acquisition and data capture

to

- Letting consumers search for and purchase goods while inside the taxis
 - Daily deals
 - Movie and show tickets
 - Lottery Tickets



In Markets Throughout the US and UK



But Taxis are Just the Beginning

Intelligent checkout is being enabled in multiple verticals through the VeriFone Digital Network



- Over 10,000 taxis in 10+ markets today
- Continually upgrading functionality
- Further global expansion underway

- Leveraging PCI upgrade to media enable the pump
- Allow geographic and daypart targeting
- Opt-in personalization
- Couponing
- Pay-at-Pump purchasing

- Advertising and merchant promotions
- Integration with loyalty and 3rd party apps
- Social and location-based media

Six Rules of Mobile Commerce Success

#1

- Deployment and management of complex NFC technologies will require significant ongoing services from the retailer's payment systems provider.

#2

- Mobile commerce must add value to the consumer.

#3

- Mobile commerce must be streamlined with existing POS services and managed well for the retailer.

#4

- Mobile commerce must become ubiquitous to be successful.

#5

- Mobile commerce must be integrated with other forms of payment.

#6

- Mobile commerce must be ironclad secure.

Making Checkout Intelligent

Building the architecture

Bringing the players together



Powering marketing and interactivity

Providing value to consumers