

## Fueling Global Business Transformation at First Data



Kevin Kern

EVP and CTO,

Global Operations and Technology



March 20, 2012



## **Transformation Warrior Rules**

- Know your environment (industry, company) and its appetite for change
- 2. Have a roadmap...with a destination
- 3. Fully understand your capabilities and capacity to deliver on customer expectations



### **About First Data**

First Data drives the world's largest transaction engine with a high degree of innovation, predictability and reliability in a global environment that is both complex and highly regulated.



## 2. Complex

## Highly-Regulated

#### **Large Global Business**

- -\$10.7 Billion in 2011 Revenue
- No. 236 on 2011 FORTUNE 500
- 24,000 Employees / 34 Countries

#### **Leading Transaction Processor**

- \$1.5 Trillion U.S. Transaction Volume Settled
- 53 Billion Transactions Globally
- 11,000 Transactions Per Second (peak season)

#### **Large Customer Base**

- Over 6 Million Merchant Locations
- 4,000 Financial Institutions

#### **Industry Complexity**

- Rapidly-Evolving Global Industry
- Emerging Technologies

#### **Business Complexity**

- 500 Products Across 20 Categories
- Numerous Acquisitions

#### **Data and Information**

- Custodian of Billions of Data Points
- Sensitive and Critical Consumer Data

#### **Operations and Technology**

- Multiple Legacy Platforms
- Multiple Development Languages

#### **Regulatory Requirements**

- Dodd-Frank Act (Durbin Amendment)
- U.S. State Regulations
- European Union Data Protection Directive
- Gramm-Leach-Bliley Act
- Federal Information Security Mgmt. Act

#### **Industry Standards**

- Payment Card Industry (PCI)
- ISO Standards Organizations

#### **Contractual Commitments**

- Client-Specific Contract Obligations

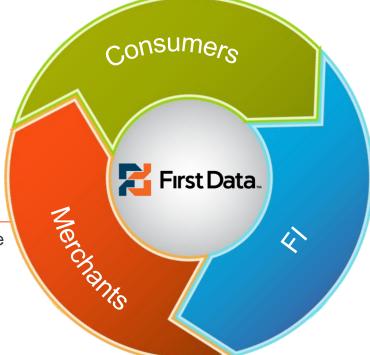


## The World We Serve Is Changing



#### **Consumer Needs**

- Anytime, anywhere access
- Consistent experience across technologies
- Simpler ways to manage accounts, offers, payments



#### **Merchant Needs**

- Tools to better integrate online and offline experience securely
- Improved information to drive marketing efficiency and personalization

#### **Financial Institution Needs**

- Ability to successfully compete against new market entrants
- Tools to keep payment cards "top of wallet" in a virtual world
- Cost-effective ways to maintain cardholder security



## **Introducing Universal Commerce**



PLAY UCOMMERCE VISION VIDEO

Convergence: in-store commerce, eCommerce, and mobile commerce.

Consumers expect a more integrated buying experience



## **Introducing Universal Commerce**



First Data must meet consumers'—and our customers'—expectations in a way that is safe, secure and reliable



### **Universal Commerce: Five Enablers**

#### **Enabling Infrastructure**

Open, <u>scalable</u> and <u>secure</u> to create a timely, consistent experience

The Consumer

#### **Smart Devices**

Connect consumers <u>anywhere</u>, <u>anytime</u> to the things they need and want

#### **Integrated Applications**

Deliver a <u>seamless</u> experience across channels and functions



#### **Partner Ecosystem**

Innovative collaboration to satisfy consumer expectations

First Data TransArmor® solution (RSA)

First Data Trusted Service Manager solution (CorFire)

First Data OfferWise(sm) solution (CardSpring)

#### **Actionable Intelligence**

Valuable data to drive new levels of targeting, personalization, and measurement



1. Operating Environment

2. Global Technology Enablement

3. Customer Service Quality and Security

4. Revenue Enablement and Acceleration



## Matrix Environment to Increase Agility, Velocity and Meet Customer Expectations

Total train of the state of the					
Global Technology and Product Solutions	Global Infrastructure	Global Service Delivery	Global Sourcing and Supply Chain Operations	Global Product Development	Enterprise Security, Risk and Compliance
The state of the s					
The <b>best people</b> and the <b>best leadership</b> to drive growth					
Project prioritization and resource optimization					
Product Development tightly linked Global Product Management and Innovation					
Global client delivery linked to local leaders					
Clear ownership and accountability for transformation initiatives					
Operating discipline: service quality and financial accountability					



## Global Investments Supporting and Driving Structural, Sustainable Value

#### **O&T Strategic Tenets**

- 1. High availability
- Differentiated customer service
- 3. Differentiate in security and risk management
- Enable and accelerate revenue and growth
- Increase productivity and efficiencies
- 6. Deliver world class client conversions
- Build and leverage global talent

#### Strategic Enablers

- High Availability and Configuration Management Database (CMDB)
- Global Command Center
- Defense-in-Depth
- Customer Care Workplace
- Global Technology Enablement Framework
- First Data uCommerce<sup>(sm)</sup> solutions
- Google Wallet
- First Data TransArmor® solution
- Key Client Conversions
- Key Projects: Integrated Managed Services
- Regional Expansion
- Optimize Cost Drivers
- EMEA Data Center Consolidation
- Labor Arbitrage / Global Sourcing

#### **O&T Destination**

## **Customer Service Quality and Security**

- Global parity
- Zero material security incidents

#### **Global Technology Enablement**

- Expand investments in core assets and products
- uCommerce phased deployment

### Revenue Enablement and Acceleration

- Re-usability
- Speed-to-revenue

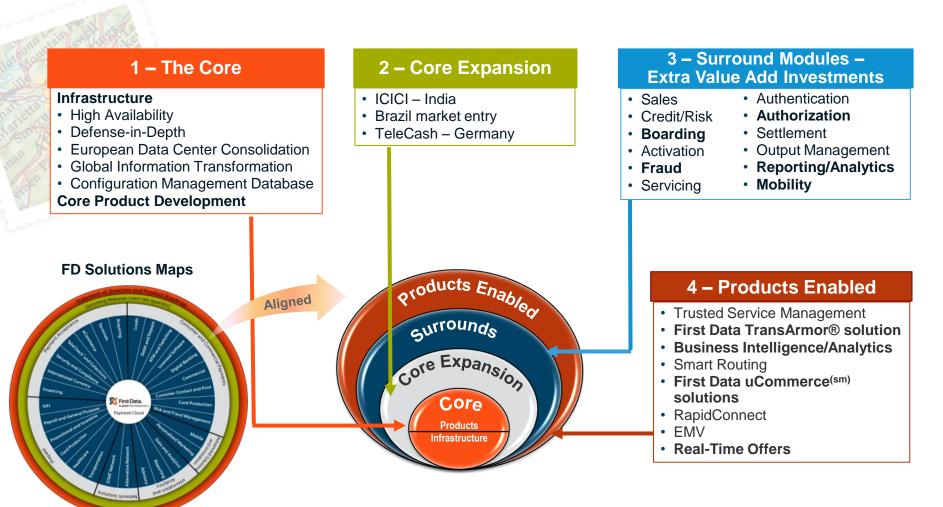
#### **Cost Discipline and Productivity**

- EBITDA growth
- Productivity & efficiency



## **Global Technology Enablement**

Invest and expand strategic core assets; grow surrounds and product solutions → revenue acceleration





# High Availability and Consistent Service Quality



2012 Investments Underway

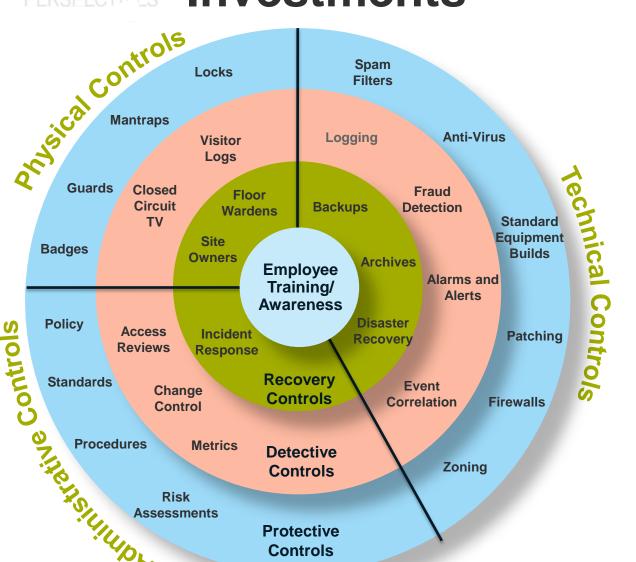
- ✓ EMEA Data Center Consolidation
- ✓ 100% of business services captured in CMDB i.e. Acquiring, Authorization, Settlement, Fraud, Reporting
- ✓ Bratislava Global Command Center leveraging U.S. infrastructure and CMDB: monitoring, alerting, advanced event correlation, business transaction monitoring
- Global implementation of Service Desk integrated with CMDB consistency in service quality and workforce efficiency
- ✓ Enhance global failover capabilities

2011 Key Performance Indicators

- ✓ Zero material incidents
- ✓ Critical system availability: US:99.98% Int'l: 99.97%
- √ 73% Reduction of Incidents Caused by Change (ICBC)
- √ 62% reduction in Severity 1 and 2 incidents



# First Data's Defense-in-Depth Investments

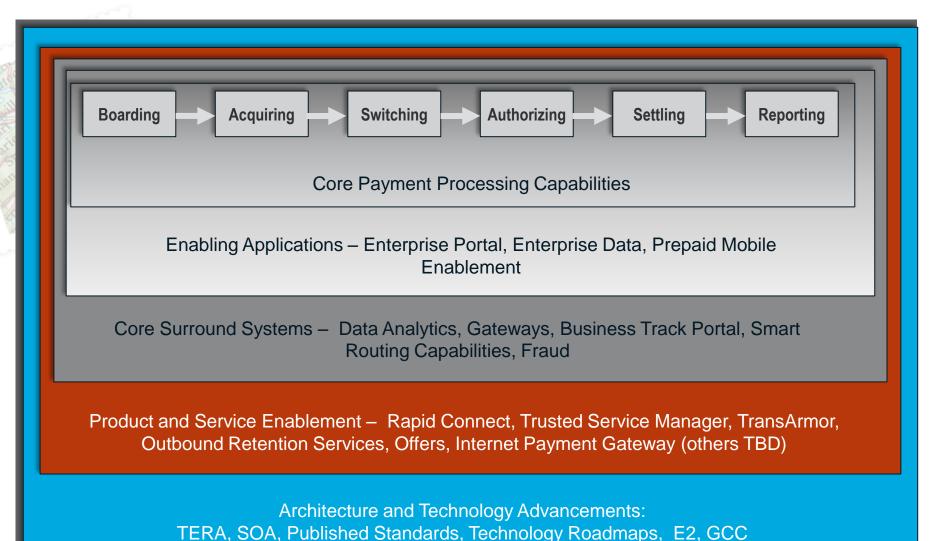


#### **Use Case: Apache Killer**

- Emerging threat exploited Apache vulnerability
- First Data received credible intel two weeks prior to activation
- 983 Apache servers patched in 14 days
- Patches completed prior to reported attacks



# Global Technology Framework: Build Once, Deploy Many





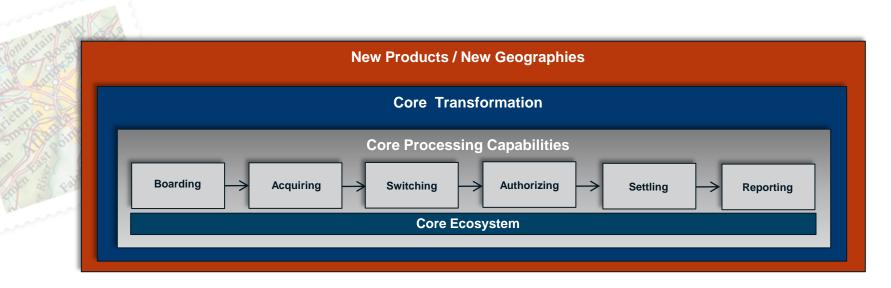
## Use Case: Trusted Service Manager and Prepaid Deployment in Google Wallet



- App that securely stores credit cards, offers and gift cards on mobile phone
- Partnership between First Data, Google, Mastercard, Citibank and Sprint
- Wallet powered by First Data Trusted Service Manager solution
- Google Prepaid Card powered by First Data's Money Network
- Open, scalable and secure



### First Data Re-Usability: Google Wallet



**SOA** and re-use of existing capabilities significantly increased speed of delivery by 63%

Re-using **Mobile Gateway** increased speed of delivery; provided off-the-shelf solution for integrating back-end services, routing and formatting messages, and data preparation for audit and compliance

Developed re-usable **Trusted Service Manager** capabilities (with CorFire) for over-the-air card provisioning, encryption and digital signature capabilities, and a web-enabled real-time data preparation engine

**Prepaid** solutions included in the initial release. Reusable services provided by First Data's Mobile Gateway enabled seamless integration for prepaid cards in wallet



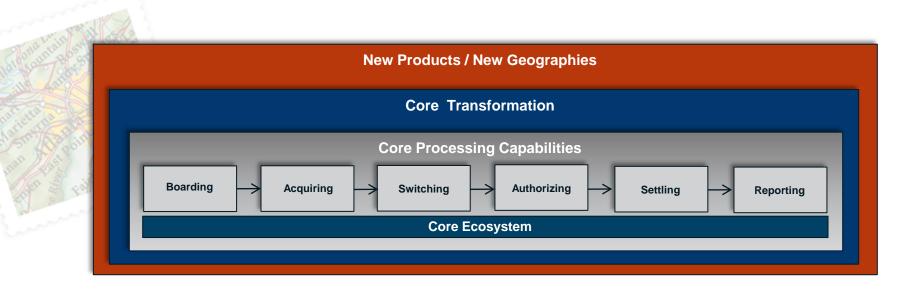
## **Use Case: Real-Time-Offers**



- Simplifies offer redemption process for merchants
- Electronically attaches deals, eCoupons and loyalty programs to payment cards or mobile wallet
- Automatic redemption at the point-of-sale
- CardSpring API enables integration with multiple publishers
- Open, scalable and secure



### First Data Re-Usability: Real-Time-Offers



**SOA** and reuse of existing **Data Power** and **Secure Web Services** capabilities significantly increased speed of delivery

Reuse of First Data TransArmor® solution increased speed and quality of delivery and provided a solution for tokenization and cryptography services to secure transactional data

Developed **New Java Connectivity Architecture (JCA)** based capability for OfferWise, which can be reused by future applications

**Standard Web Service APIs** position OfferWise alongside legacy FEs facilitating rapid product expansion and adoption

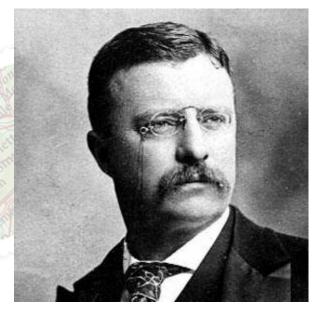


## **Transformation Warrior Rules**

- Know your environment (industry, company) and its appetite for change
- 2. Have a roadmap...with a destination
- 3. Fully understand your capabilities and capacity to deliver on customer expectations



### Roosevelt Said it Best...



"The credit belongs to the man who is actually in the arena, whose face is marred by dust and sweat and blood; who strives valiantly; who errs, who comes short again and again, because there is no effort without error and shortcoming who at the best knows in the end the triumph of high achievement, and who at the worst, if he fails, at least fails while daring greatly, so that his place shall never be with those cold and timid souls who neither know victory nor defeat."