

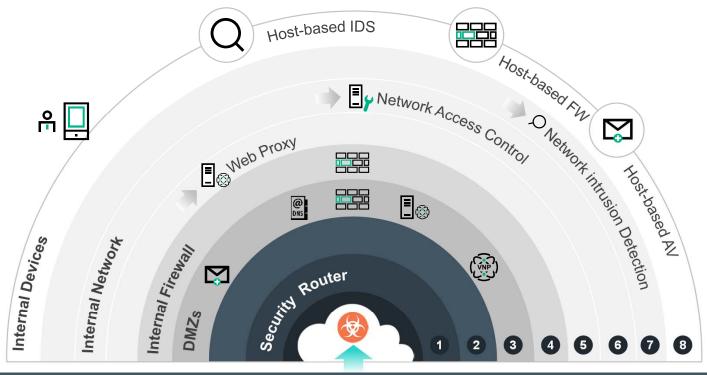
Welcome

connect. transform. repeat.



HPE Security Fortify on Demand

Existing network and perimeter based security is insufficient



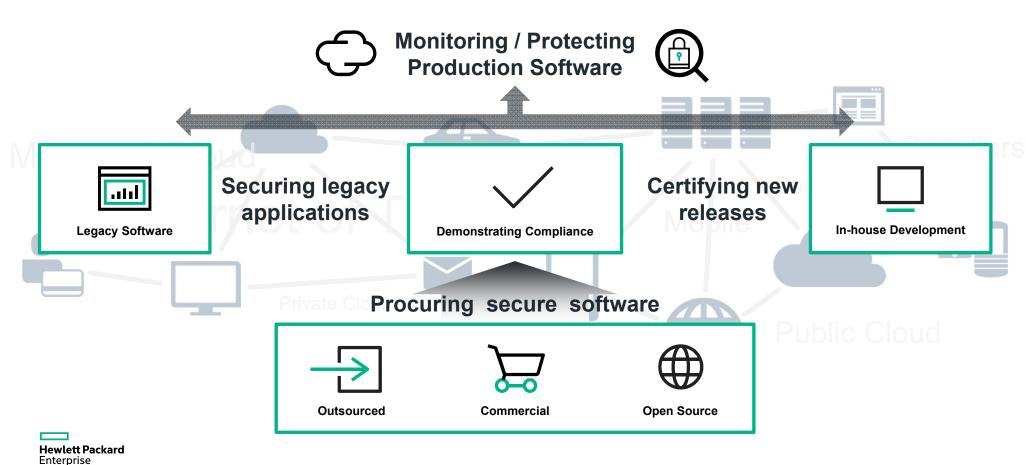
84% of breaches exploit vulnerabilities in the application layer

Yet the ratio of spending between perimeter security and application security is 23-to-1

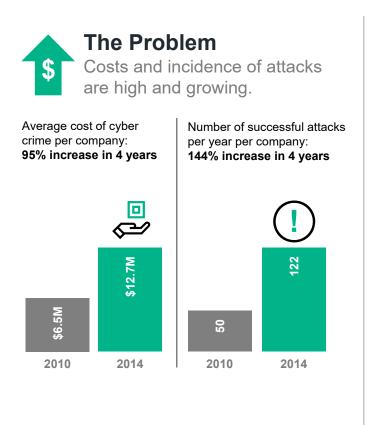
- Gartner Maverick Research: Stop Protecting Your Apps; It's Time for Apps to Protect Themselves (2014)

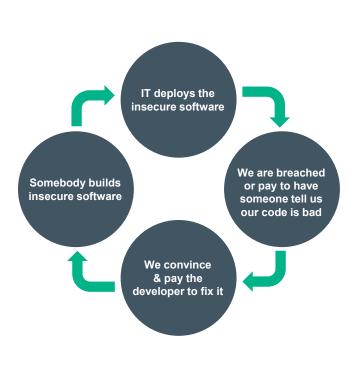


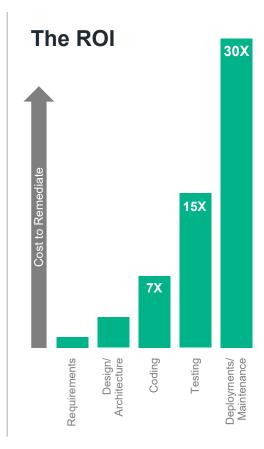
The number of apps is growing Increasing platforms and complexity ...many delivery models



A reactive approach to AppSec is inefficient and expensive







Hewlett Packard Enterprise

Customer Challenges









Difficult to Train and Retain Staff Constantly
Changing
Environment

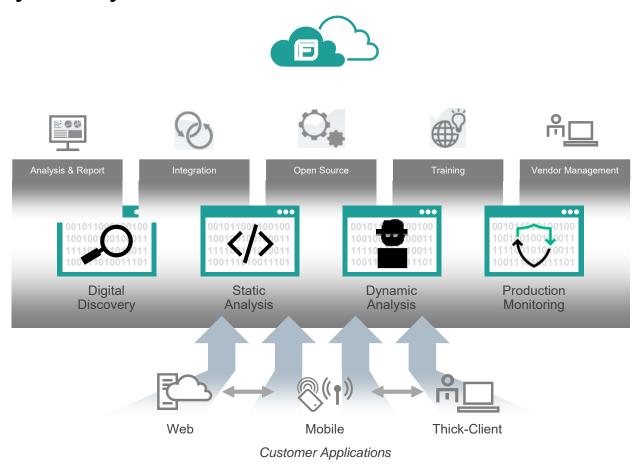
New Attacks Compliance Requirements



Fortify on Demand Overview

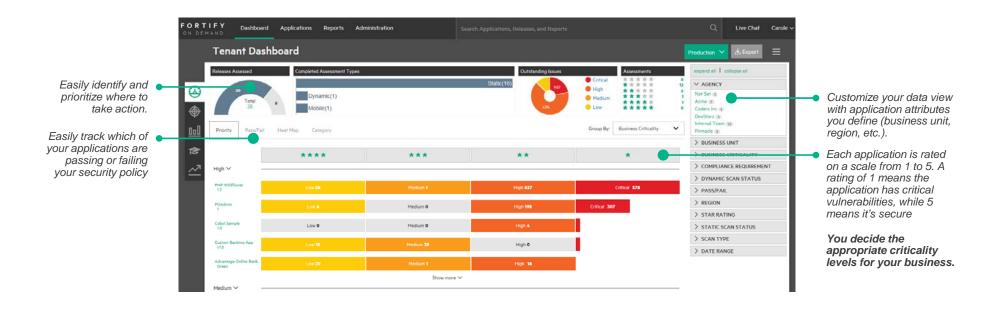


HPE Security Fortify on Demand





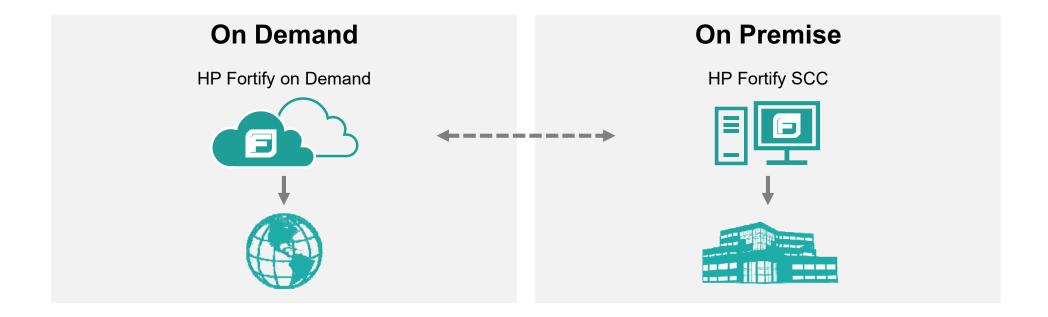
Cloud-based Portal Single interface to manage your entire application security program





Application testing flexibility

Only vendor with a hybrid delivery model





How we're different

Scans are backed by SLAs with financial penalties

We assign a Technical Account Manager to every account – at no additional cost

Mobile Reputation testing and database – free to all customers

Multiple global datacenters – 24/7 global support

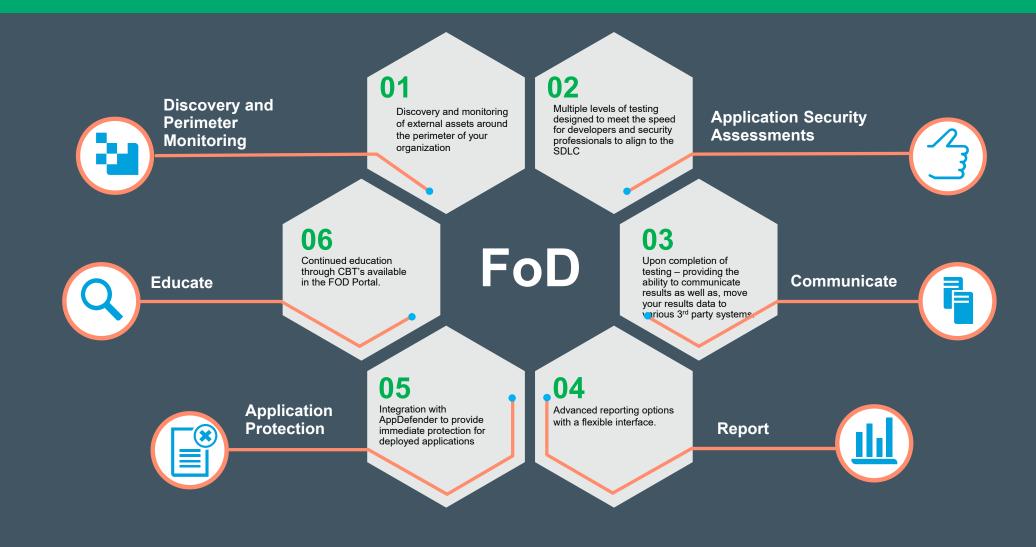
Only provider to offer both "on-demand" and on premise solutions



Managing Your Application Security Program



Six steps to managing the risk within your organization



Digital Discovery and Perimeter Monitoring

Discover and Monitor

Assessment

Communicate

Report

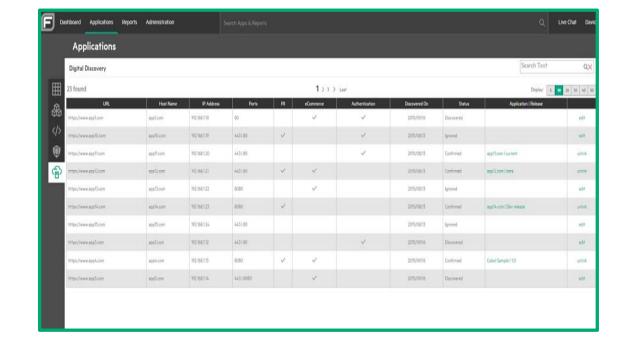
Protect

Educate

Digital Asset Discovery Process

- Create risk ranked inventory of on-line applications
 - · Web, Facebook, mobile
 - In-house developed, out-sourced, thirdparty
- Basic risk categorization
- · Lightweight vulnerability scan of all applications
 - · See what the script-kiddies see
- Establish the business case
 - · Gain executive sponsorship

Don't wait for a breach





Web Application Assessment Solutions

Discover and Monitor

Assessment

Communicate

Report

Protect

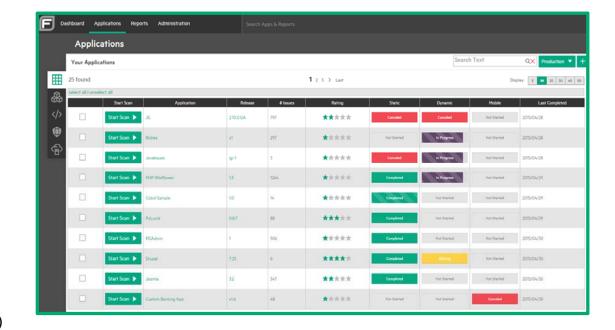
Educate

Service Levels

- Static
 - Award winning static analysis solution
- Dynamic
 - Basic
 - Standard
 - Premium
- Mobile
 - Basic
 - Standard
 - Premium

Consumption Models

- Single Scan (One scan plus remediation)
- Subscription (Unlimited annual scans)





Static Testing Reduce security by building better software

- Supports over 22 coding languages, most comprehensive static analyzer on the market
- 90% of scans completed in less than 24 hours (48hr SLO)
- Unlimited file size at no additional charge or change in SLO
- Source, byte and binary scanning
- Fits naturally into the development process with IDE, build server and other plug-ins integration.
- False positive removal
- Incorporates Sonatype open source component analysis for Java and .NET applications

Simple to use







Upload

Test

Review





Dynamic Testing For QA and Production Testing – just point us at your URL

Dynamic Analysis	Basic	Standard	Premium
App Risk Level	Low Marketing Site	Medium Personally Identifiable	High Credit card / SSN
Automated Scan	✓	✓	✓
False Positive Removal	✓	✓	✓
Remediation Scan	✓	✓	✓
Manual Testing		✓	✓
Business Logic Testing			✓
Web Services			✓
Static Analysis/IAST/ Security Scope			✓



Mobile Testing

Mobile Analysis	Basic	Standard	Premium
Risk/Test Level	Low Marketing App	Medium Personally Identifiable	Sensitive Credit card / SSN
Automated Binary - Client		✓	✓
Source Code - Client	✓		✓
Manual Binary – Client		✓	✓
Network		✓	✓
Reputation/Behavioral Analysis		✓	✓
Server: Web Services - Dynamic		✓	✓
Server: Web Services - Source Code			✓
Turnaround	1-2 Days	1-2 Days	5 Days

Standard and Premium Cover all Categories of OWASP Mobile Top 10 2014



Integrations and Advanced Reporting

Discover and Monitor

Assessment

Communicate

Report

Protect

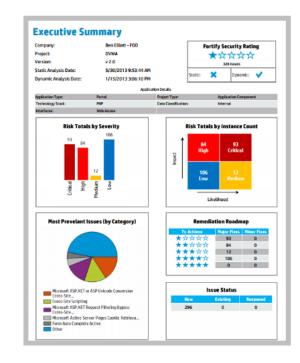
Educate

Communication

- Hybrid model
- Vendor Management Capabilities
- Out-of-the-box integrations (Jenkins, ALM, AppDefender, WAFs)
- Powerful Restful API for additional integrations and data export

Powerful Reporting Engine

- From Executive Summary to Full Details
- PCI, OWASP, etc.
- Easy to create reports
- · Use existing templates or create-your-own
- 3rd Party application reporting





Powerful reporting and remediation guidance







Insightful Dashboard

- Tenant
- Issues
- Usage
- Training

Detailed Reports

- Star Ratings
- Remediation roadmap
- Detailed vulnerability data
- Recommendations

Collaboration

- Line of code details
- IDE Plugins
- Assign issues to developers
- Track remediation workflows



Application Protection

Discover and Monitor

Assessment

Communicate

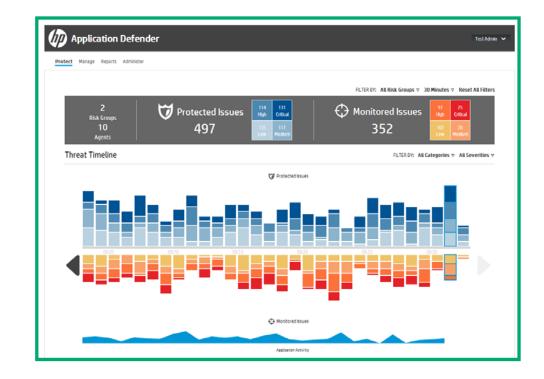
Report

Protect

Educate

Application Self Protection

- AppDefender to be integrated directly into FOD
- Quick protection against attacks from within your application
- Easy identification of top vulnerability events by criticality
- Accurate results from within application logic and data flows





Role-based Secure Development Training

Discover and Monitor

Assessment

Communicate

Report

Protect

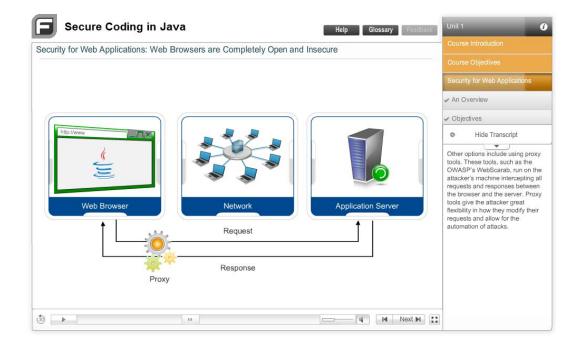
Educate

Role-based Training

- Developers
- .NET, Java, C/C++, PHP
- Mobile Developers
- iOS & Android
- Project Managers
- QA

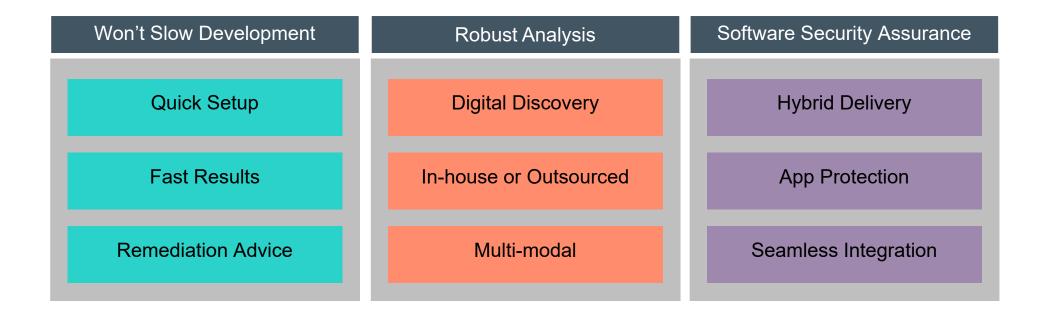
eLearning

- Low cost
- Easier to schedule
- Highly-scalable
- Easy to manage
- Easy to enforce





HPE Security Fortify on Demand The right choice







Thank you



Cardinals cyberattack on the Astros

The attack is the first known case of corporate espionage in professional sports.



Intellectual Property

Mr. Luhnow was a Cardinals executive, primarily handling scouting and player development. One of many innovative thinkers drawn to the sport by the statistics-based "Moneyball" phenomenon, he was credited with building baseball's best minor league system, and with drafting several players who would become linchpins of that 2011 Cardinals team.

The Astros hired Mr. Luhnow as general manager in December 2011, and he quickly began applying his unconventional approach to running a baseball team. In an exploration of the team's radical transformation, <u>Bloomberg Business called it</u> "a project unlike anything baseball has seen before."

It contained the Astros' "collective baseball knowledge," according to a <u>Bloomberg Business</u> <u>article</u> published last year. The program took a series of variables and weighted them "according to the values determined by the team's statisticians, physicist, doctors, scouts and coaches,"



Confidential

What can we do now?

The new battlefield



Vanishing perimeter

Perimeter in your pocket

Defending interactions between users, apps, and **DATA**

Patch or perish



Back to the basics

Unintended consequences

Vendor transparency



What can we do now?

Monetization of DATA



Ransomware

ATM-malware

Banking Trojans

Shifting politics



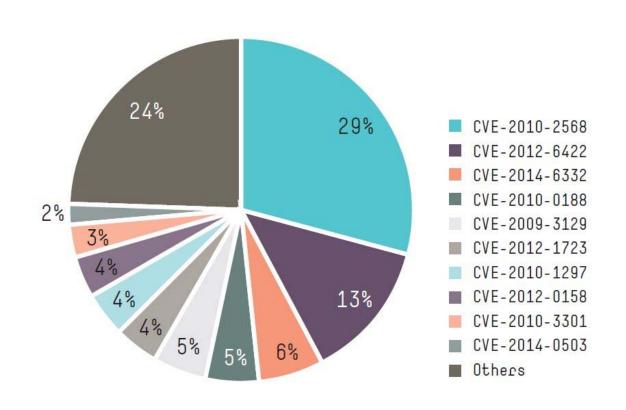
Cross-border agreements

Privacy protection

Protect our **DATA**



Successfully exploited vulnerabilities



29% used 2010 Stuxnet infection vector

Five repeat offenders Top 10 are >1 yr old 70% > 3 yrs old

Adobe Flash accounts for 29% of malware samples



29



Average time bad guys are inside **before detection**

2014 ...March April May June July August September October November December 2015 January February March...

of breaches occur at the application layer

84%

Since 2009, time to resolve an attack **has grown**

220%

Average Remediation
UK 30 days (25 in 2014)
Global 46 days (43 in 2014)

94%

of breaches are reported by a **3rd party**



23% ROI Security Intelligence
21% ROI Encryption Technology
20% ROI Advanced controls



- UTM, NGFW, IPS

You need a set of core beliefs and principles Here are ours



Core Belief

Protection must be **built into the fabric** of the digital ecosystem

Guiding Principles

Security is intended to protect and enable the business

Protect **what matters most** to you and the attackers: your apps, users, data & the interactions between them

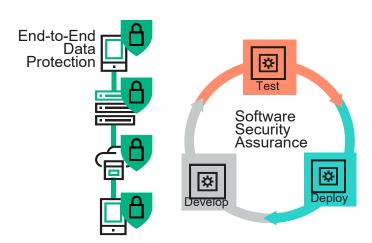
Every organization is unique: there is **no one size fits all** security program. But there are **common, foundational components**

Build Security into the fabric of your organization



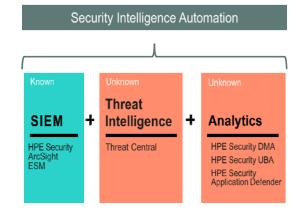
Build it In Prevent

- HPE Security Data Security
- HPE Security Fortify
- HPE Aruba ClearPass



Detect & Respond

- HPE Security ArcSight
- HPE User Behavior Analytics
- HPE DNS Malware Analytics
- HPE Threat Central



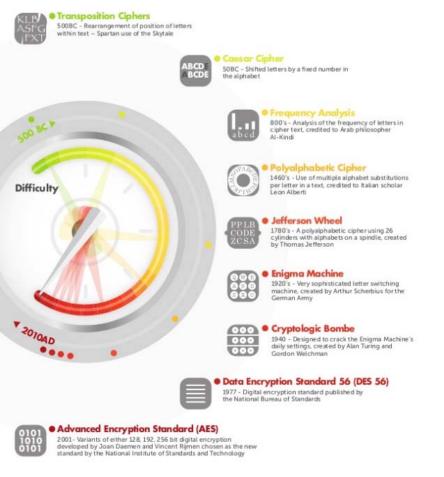
Recover it Fast Recover

- HPE Security Services
- IM&G, EG and Technology Services



Protect your data





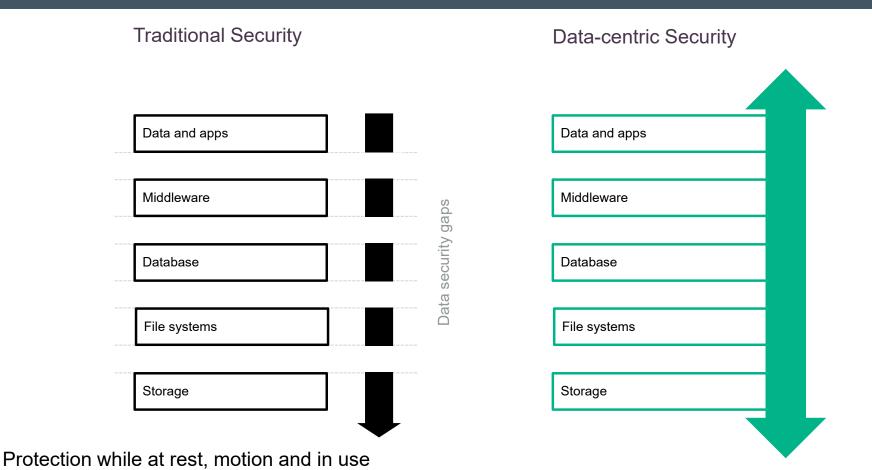




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	Credit Card	Tax ID 000-00-0000	Bank Account
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AES	8juYE62W%UWjaks& dDFeruga2345^WFL	lja&2924kUEF65%Qa rotugDF2390^32KNq	Hiu97NMko2^Ku}o{3 5RJ434DQNmnSDre

Build protection in Data Protection Across Private Cloud, Public Cloud and Traditional IT





Questions? Please contact lizl@mobiuspartners.com or call 281.469.3801.

Global Automative Manufacturer



Business Need

- Customer need to analyze real time data from vehicles, merged with large customer data sets.
 Reduce recall impact, enhance customer service
- Massive scale: Vehicles emitting 1-2 billion transactions per day – includes location data, VIN data, personal data
- Real time ingestion into Hadoop wit Flume, Data merges with IBM DataStage
- Complex EDW "2.0" ecosystem IBM BigInsights Hadoop, Teradata
- Analysts using Cognos, QlikView, Custom BI Tools
- Dynamic access to live data for investigations via Teradata, Cognos and other tools required after analysis



Solution

- HP SecureData Platform for Teradata, Hadoop, Open Systems
- Protecting multiple fields- GPS data, Vehicle data, sensor data, engine data, personal behavior data, accident databases, and under one EDW 2.0 platform
- HP SecureData integrated into Flume for automatic dynamic de-identification of data on real-time ingest – live feeds
- Full referential integrity from FPE across all systems
- Teradata and Hadoop UDFs for dynamic access to live data
- ODBC/JDBC real-time re-identification in BI tools

Outcome

- Enables Data scientists to operate on deidentified data – reduced risk and compliance
- FPE referential integrity preservation allows analytics across Teradata, Hadoop, Cognos etc. to be on de-identified data
- Plug and play for data science and BI tools
 no app changes
- Enables manufacturer to see real-time behavior of customers and vehicles without privacy and breach risks

HPE Security – Data Security

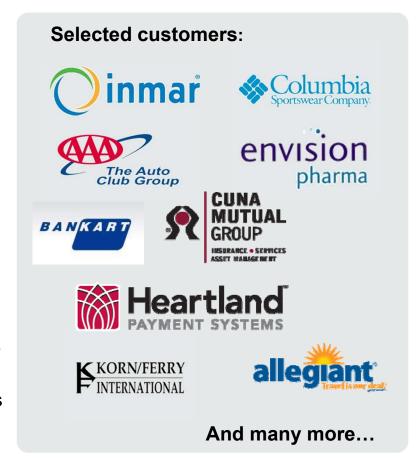


A leading expert in data-centric encryption and tokenization solutions for 1,100 of the world's foremost enterprises:

- 8 of the 10 top U.S. banks
- 6 of the 7 top U.S. payment processors
- Top 5 global Internet retailers
- Top 5 auto manufacturers / energy
- U.S. Tier 1 home improvement retailer
- Fortune 50 healthcare benefits providers
- Global leaders in retail, insurance, healthcare and telecommunications
- Over 70 million HPE SecureMail users worldwide

"With HPE SecureData and HPE SecureData Web, our onsite QSA audit went from two weeks to three days, with remediation expenses shrinking by 50%, saving us over \$1 million annually."

Global Internet Retailer



- PCI
- PII
- Analytics
- Test Data
- Cloud



Thank you! Survey and Q&A

connect. transform. repeat.