

Mission Critical Security for your Mission Critical Applications

Bringing NonStop™ to the Enterprise
and the Enterprise to NonStop™



About XYPRO

- 29 years serving the HP NonStop™ community
- Specialists in Mission Critical security, compliance and encryption
- Sales and Support offices around the world
 - Europe, North America, Asia Pacific, Latin America, and Africa
- FIPS 140-2 validated encryption
- XYGATE Merged Audit included on all HP NonStop servers



Enterprise Security Program
Platinum Partner



PARTICIPATING ORGANIZATION

PRO Services

Safeguard PRO

- Comprehensive GUI interface to Safeguard, OSS, and SQL/MX security
- Extend Authentication for SSO with LDAP, RSA, etc.
- Synchronize all passwords across network
- Enable Role Based Access Control (RBAC) with Dynamic Object Security rules



ACCESS PRO
Grant privileges according to job function



PRO Services

Audit PRO

- Included with all new HP NonStop servers
- Collect, Alert, Forward, and Store Security Audit
- Integrate HP NonStop with the HP ArcSight SIEM or any other enterprise SIEM solution
- Automatically generate and deliver audit reports
- Comply with regulatory audit requirements



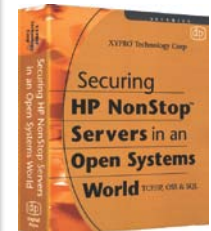
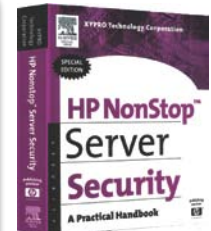
ACCESS PRO
Grant privileges
according to job
function



PRO Services

Compliance PRO

- Automatic analysis of your entire NonStop security configuration and file integrity monitoring.
- Compliance comparison to thousands of industry best practice settings and specific regulations including PCI
- Custom configuration for analysis, detection, and reporting on your corporate security policy



ACCESS PRO
Grant privileges according to job function

PRO Services

Access PRO

- Privileged access management with command and sub-command control
- Eliminate shared ID use and employ the principle of “Least Privilege”
- Individual accountability for any user with keystroke logging



Database Management

Access PRO

Grant privileges according to job function



Identity Management



Data-Centric Security



Device-Centric Security

PRO Services

Encryption PRO


- Encryption for data-in-transit and data-at-rest
- SSL and SSH support for all TCP/IP communications
- Encryption library to encryption enable your applications
- Full function key management solutions
- FIPS validated to NIST 140-2



Database Management

ACCESS PRO

Grant privileges according to job function



Identity Management



Data-Centric Security



Device-Centric Security

Partnerships

Business and Technology

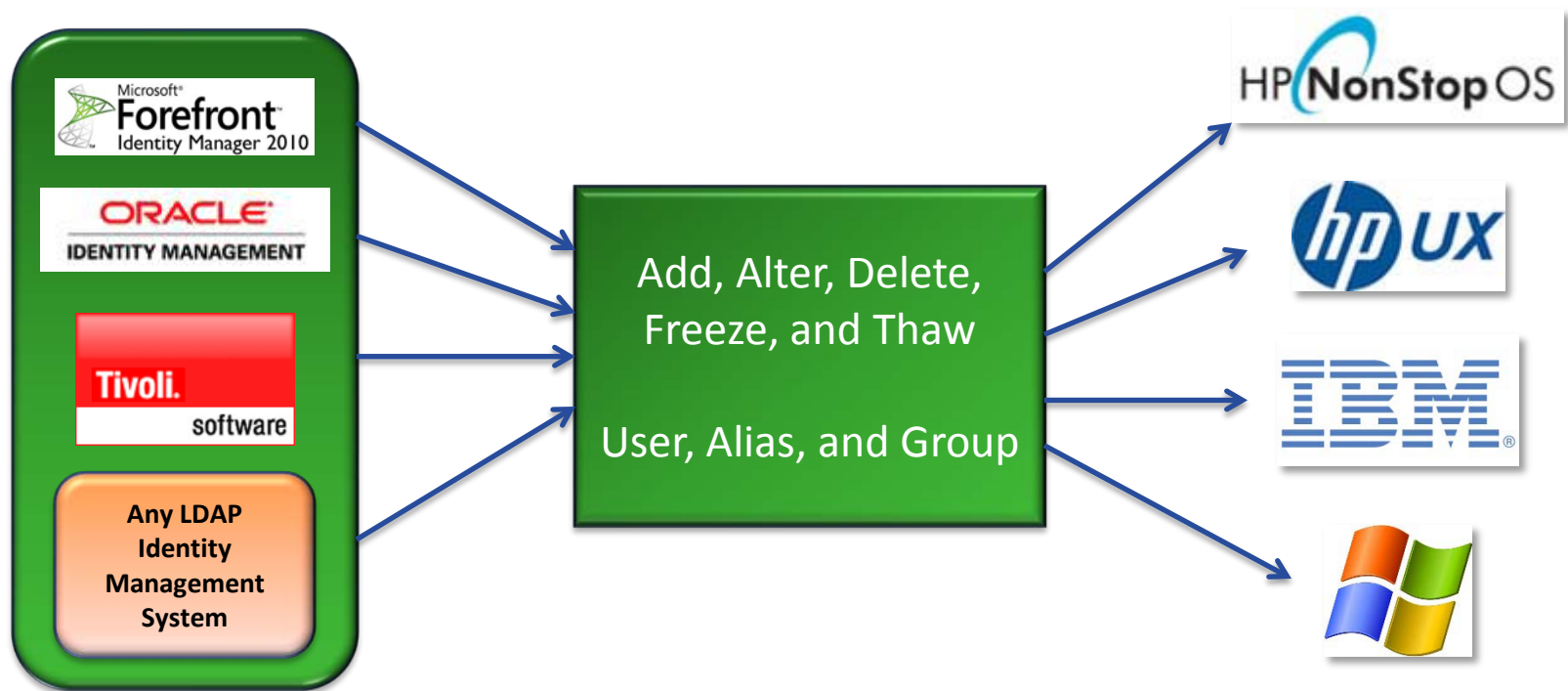


Database Management



- SQLXPress
 - GUI Browser Interface for NonStop SQL (MX and MP)
- MARS
 - Merlon Auto Reload System
- Discover
 - Disk Storage Management
- Partner
 - Enscribe and SQL Partition Analysis

Identity Management (IdM)



Key Features

- Authentication, User Security Management, Password Management, Group Management
- Standard LDAPv3 Interface
- Risk Reduction, Policy and Regulatory Compliance, Increased operational efficiency, Reduced administration costs, Improved Security
- Extends current technology investments

Data Centric Security



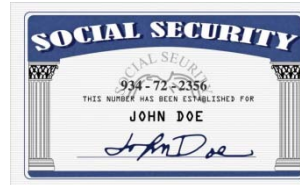
- Encryption
- Tokenization
- Masking

Format-Preserving Encryption (FPE)



Credit Card

7412 3456 7890 0000



Tax ID

934-72-2356



Driver's License

RAMIRJM-302JA

FPE	7412 34 23 3526 0000	934- 28-77 56	BETJJKL-288TU
AES	8juYE%UWjaks&dDFeruga2345^WFLERG	lja&2924kUEF65%QarotugDF2390^32	ZLllkdiI3&3#a45lja8v%Jm<1Pa

- Supports data of any format
 - Credit Card, Social Security, Bank Account, Generic Alphanumerics, Dates, etc.
 - Maintain rules such as credit card checksums
- Encrypts all or part of a value – e.g., first 6, last 4 preserved
- Preserves referential integrity
 - Allows encrypted data to be used as database indices & foreign keys
 - Enables searching on encrypted data without performance impact

Voltage Advantages

Cryptographic Breakthroughs that yield measurable business value:

- Stateless key management -- No Keys to Store or Manage or Distribute/Replicate
- True Enterprise Scalability
- Reduction in administration and infrastructure
- Exceptional Ease of Use
- No schemas or structured data table changes
- Full / partial encryption, masked, and tokenized data from same interface with AES-backed security
- From Mainframe to Mobile...

Device Centric Security



Industry's first mass-scale device centric strong authentication

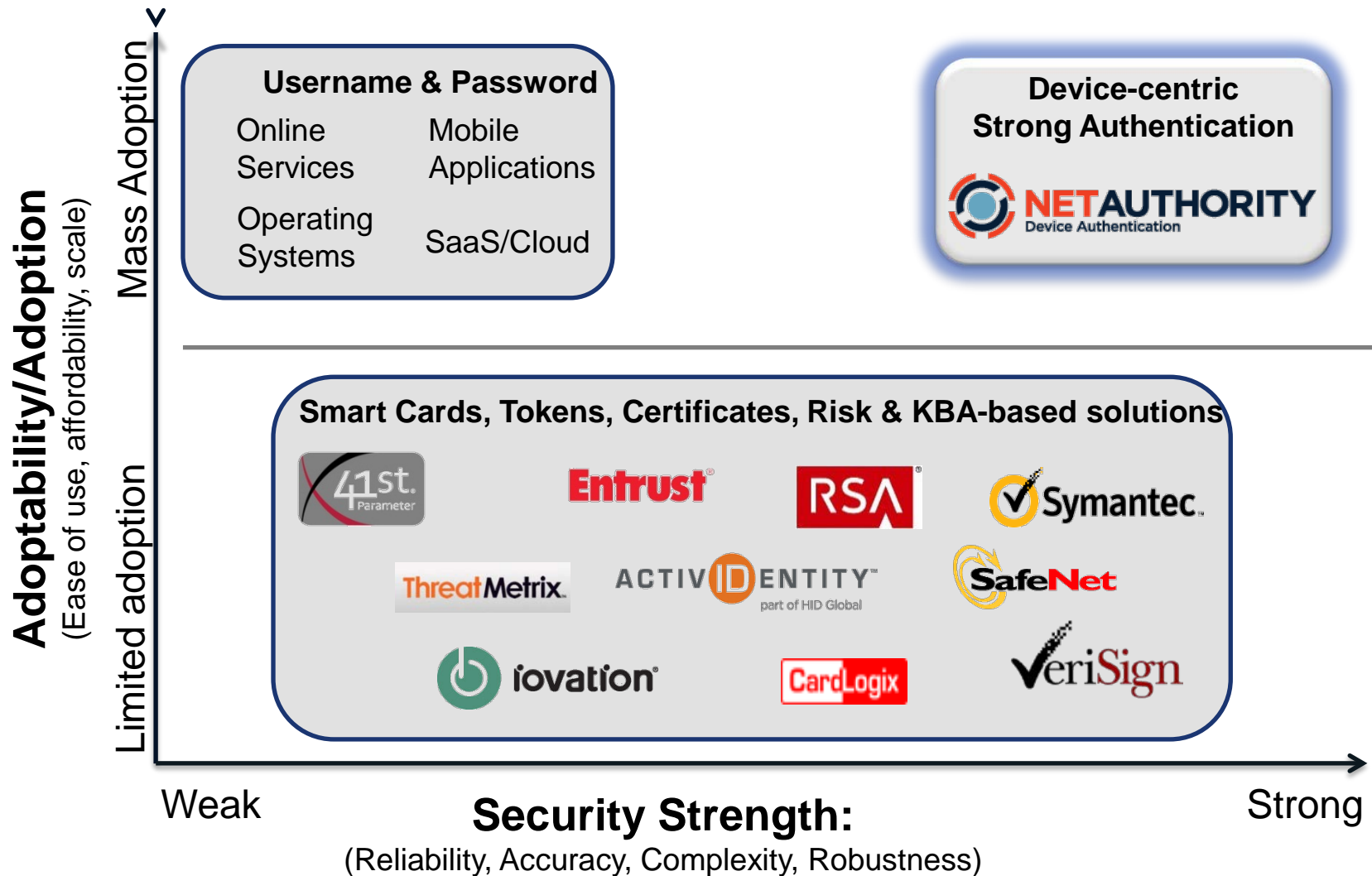
- Irrefutable Authentication Accuracy
 - Authenticates the user's device with a uniquely expandable & flexible multi-attribute device "key"
 - Expands to provide independent transaction verification
- Exceptional User Experience
 - Requires no user interaction or response
 - Sub-second device authentication
- Purpose-built for Integration
 - Secure service API for easy integration with existing solutions
 - Provision, manage, and report from other systems

Device-centric Multi-Factor Authentication

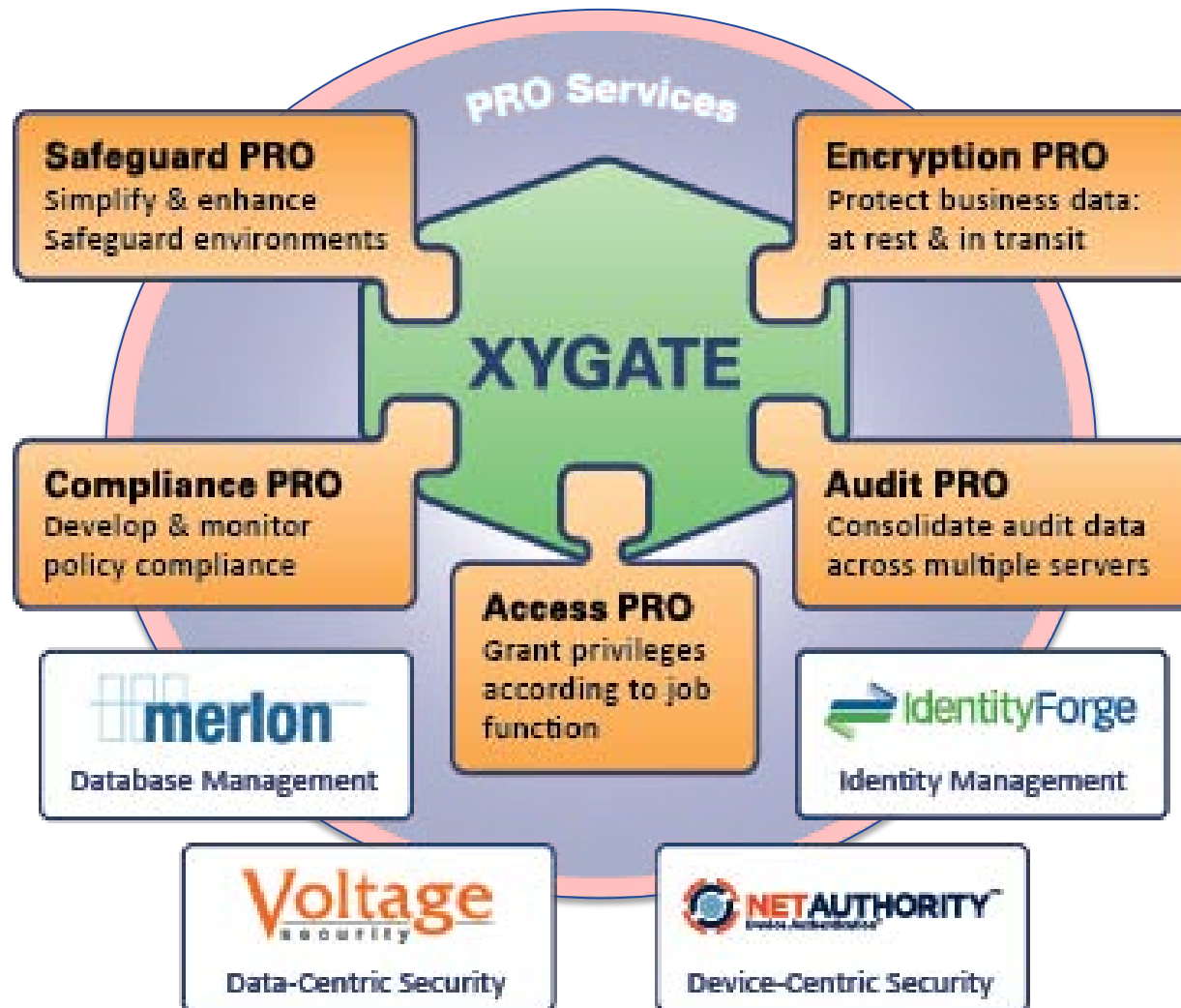
Delivers customer protection against the most dangerous threats & online fraud attacks:

- Key loggers
- Stolen cookies and user credentials
- Phishing attacks
- Circumvented KBA and Risk-based authentication
- Man in the middle attacks
- Man in the browser attacks

Evolution of User Authentication Security



Mission Critical Security Solutions



Questions?

