Rethinking Identity and Access Governance

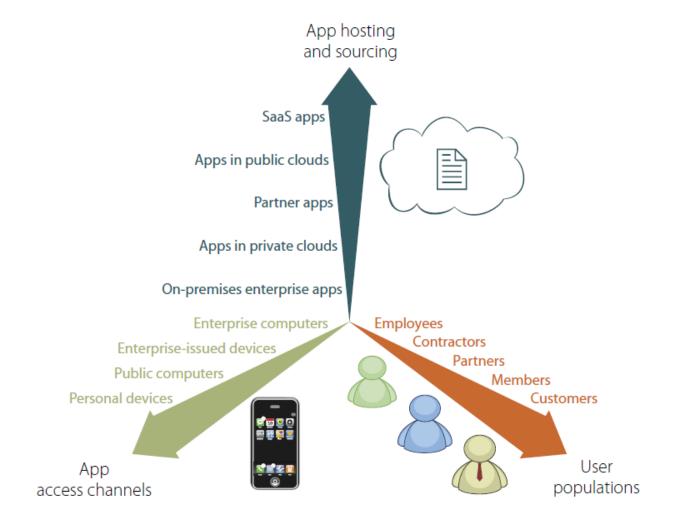
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Every Organization is Different

Extended Enterprise Presents IAM Challenges In Three Dimensions



Forrester Research, Inc. "Navigate The Future Of Identity And Access Management" - Eve Maler, March 22. 2012

How Does IT Maintain Control?

You may need to rethink your approach to identity and access













SONY



Breaches are increasing



Everyone's gone mobile



The cloud is here



Budgets are shrinking

It's All About Access

What does it all mean and what should it do for you?

Elements of Identity

- - Who/What are you?
 - Name, location, etc.
 - Roles/Privilege
 - Title, Manager, etc.
 - Relationship to business
 - Employee, Contractor, etc.

Access is a Relationship

- Applications
- Systems
- Data
- Resources
- Physical Facilities



Access Utilization

- Is activity aligned to roles and policy
 - Orphans, dormant access and entitlement creep
 - Privileged access control
- Distinguish attacker from insider activity

It's All About The Right Access

Right People, Right Resources, Right Time from Anywhere



What is "Right" Varies By Organization

Moving at the speed of business vs. mitigating business risks



Right Access Requires Proper Context

What, Where, Why and When add critical value to the Who



Right Access = Intelligent Access

Right people, right resources, right time, right device, right location

- Clearly understanding the 5 W's
 - More context around Who for better access decisions



- Organizational needs are in balance
 - Business Needs
 - Business policies and controls are in place
 - Organizational risk threshold is reflected in polices and controls
 - IT Resources and Assets
 - What is available, what are IT's capabilities?
 - What is the business getting out of the IT investment?



"We have brakes on our cars not so that we can stop, but so that we can go fast" – Sara Gates

Why Should You Care About Intelligent Access?

Mitigate Risk – Stay Out of the Press

"Security Breach Exposes Data on Millions of Payment Cards"—InformationWeek





~ \$7 Billion Loss

"British parliament shut down e-mail system to prevent damage" —ZDNet

"Hospital patient data revealed"





Regulatory & Oversight Pressures





Internal Audit



Board of Directors – Oversight Groups

Move At The Speed of Business

IT should enable business agility vs. acting as a roadblock



VS.



IT should be the catalyst for the solution

Resources / Assets

Bringing IT and The Business Together





Control

3 Key Processes of Intelligent Access







Access **Fulfillment**

Identity Management

- Granted access
 - Active decision
 - Automated process
- Access administration

Access **Authorization**

- Access Management
- Enforcement of access
 - Users, partners, customers, etc.

Access **Monitoring**

Security Management

- Tracking and observing what is being done with the access
- Improper activity

Business Needs

What Are Your Priorities and Needs?

Access fulfillment, authorization and monitoring

User

Security &

Activity

Intelligence

Analytics &

Reporting

Access Monitoring

Resources / Assets

Control

Delegated

Administration

Management

Log Management

Reporting

Flexibility

Access

Certification

Single Sign-on

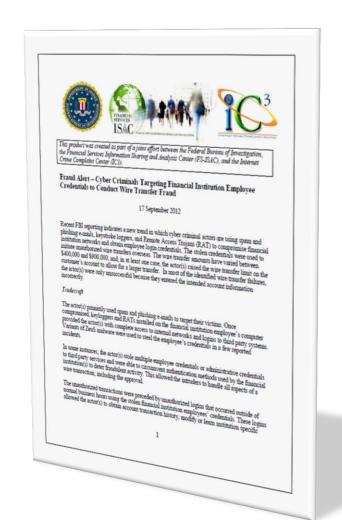
Dashboards.

Risks & Trends

Use-Case

FBI Fraud Alert

Cyber Criminals Targeting
Financial Institution
Employee Credentials
to Conduct Wire
Transfer Fraud



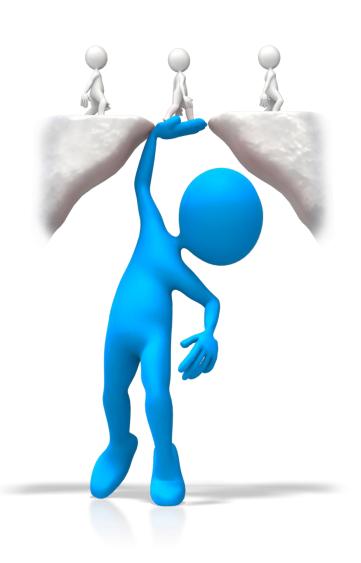
Use-Case:

- Cyber Criminals Target Finalcial Institution Employee
 Credentials to Conduct Wire Transfer Fraud
- Released by the FBI (and others) on Sept 17, 2012
- What's the story?
 - Spam and phishing to target victims
 - Keyloggers and Remote Access Trojans installed on employee's computer
 - Variants of ZeuS malware used to steal employee's credentials in some cases
 - In some cases, multiple employee credentials and admin credentials were stolen, wire tranfer limits raised

- What's the story? (continued)
 - Authentication methods used to deter fraudulent activity were circumvented, allowing intruders to handle all aspects of a wire transaction, incl. approval.
 - Unauthorized logins outside of normal hours, allowing actors to obtain account transaction history, learn about wire transfer system, read manuals and training on the use of the systems.
 - In at least one instance, the actors browsed through accounts, apparently selecting the ones with the highest balance.
 - Victims: Small-to-medium sized banks, however a few large banks have also been affected.
 - In some incidents, DDoS attacks were used to distract bank's personnel.

Align Business and Security

- Difficult to achieve
- · Common issues:
 - Language
 - Needs
 - Awareness
 - Complexity
 - Management buy-in
 - Silo-thinking
 - And many more



Identify the Real Risks

- What is our risk posture?
- Do we understand risk?
- Do we measure risk?
- Do we do it right?
 - ...really?
 - Who determines what is "right"?
 - ...so again:
- Do we understand the risks we're facing?

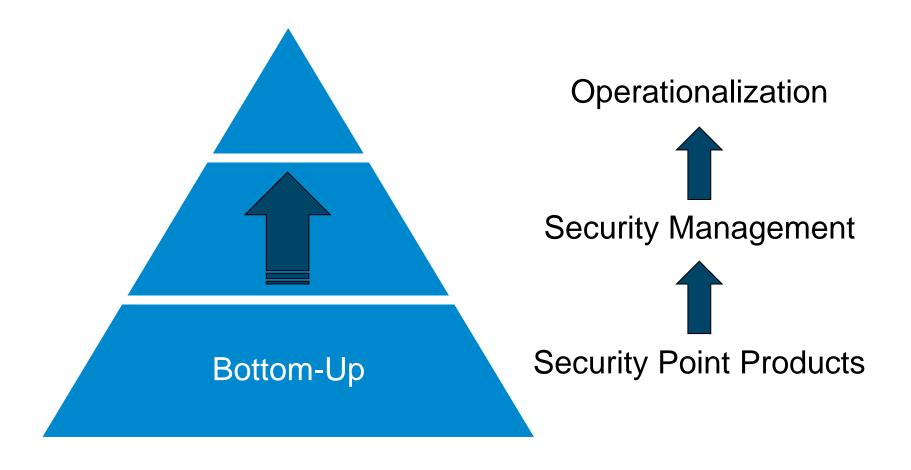


People are Key



Needs Analysis

Typical / Traditional Approach





Typical Approach: Silos Prevent Intelligent Analytics





Verizon Data Breach Report 2012

· 92%

of breaches was discovered by a third party

· 85%

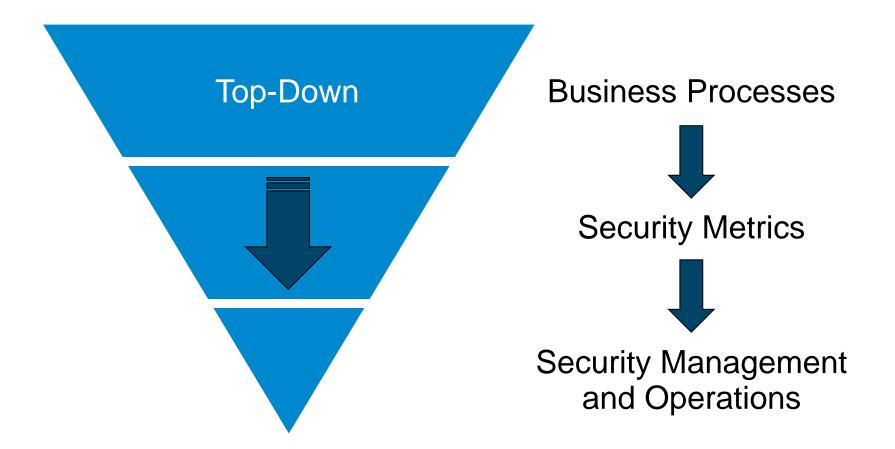
of breaches took weeks or more to discover

. 84%

of organizations had evidence in their log files

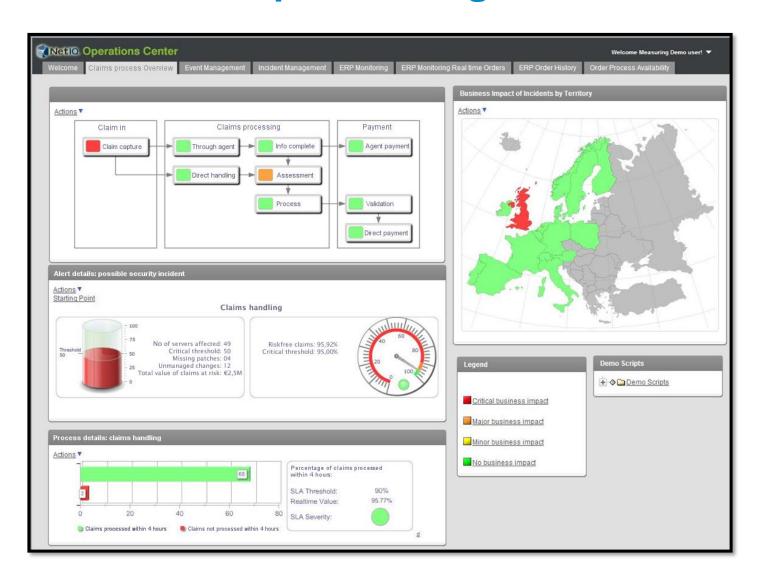


Alternative Approach





Threat Landscape in a Single Pane of Glass



Let's Come Back to the Use-Case

So what to do?

- FBI released a list of advices around people, process and technology
- Bird's Eye View:
 - Many components come together
 - Including spam and phishing, account mis-use, out-of-hour usage, privileged account mis-use, DDoS activity, etc.
- What can Security Management do?
 - Change Detection and Privileged User Monitoring
 - Security Information and Event Management (SIEM)
 - Anomaly Detection and Security Dashboards
 - Privileged user access restrictions



- So what to do? (continued)
 - And outside of Security Management?
 - Identity and Access Management
 - Seggragation of duty and two-man rule
 - Access Governance
 - Fraud Detection
 - Anti-Virus, Anti-Spam, Anti-Phishing
 - Application White-Listing
 - And what about Dashboards and Metrics?
 - Build the Business Service of Wire Transfers
 - Implement supporting technology event feeds to visualize service disruptions AND anomalies

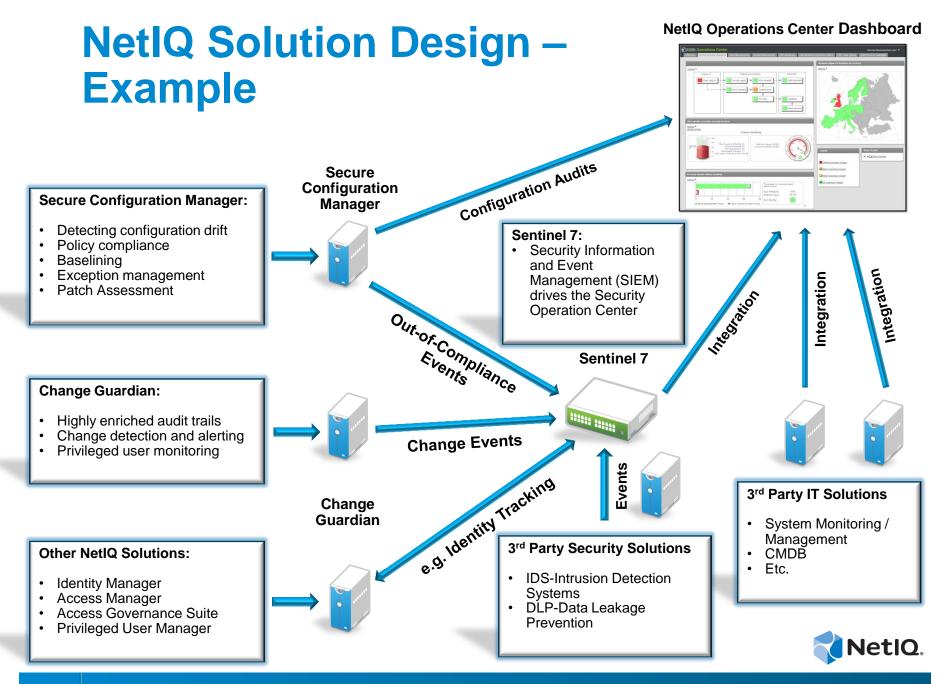
Solution Overview

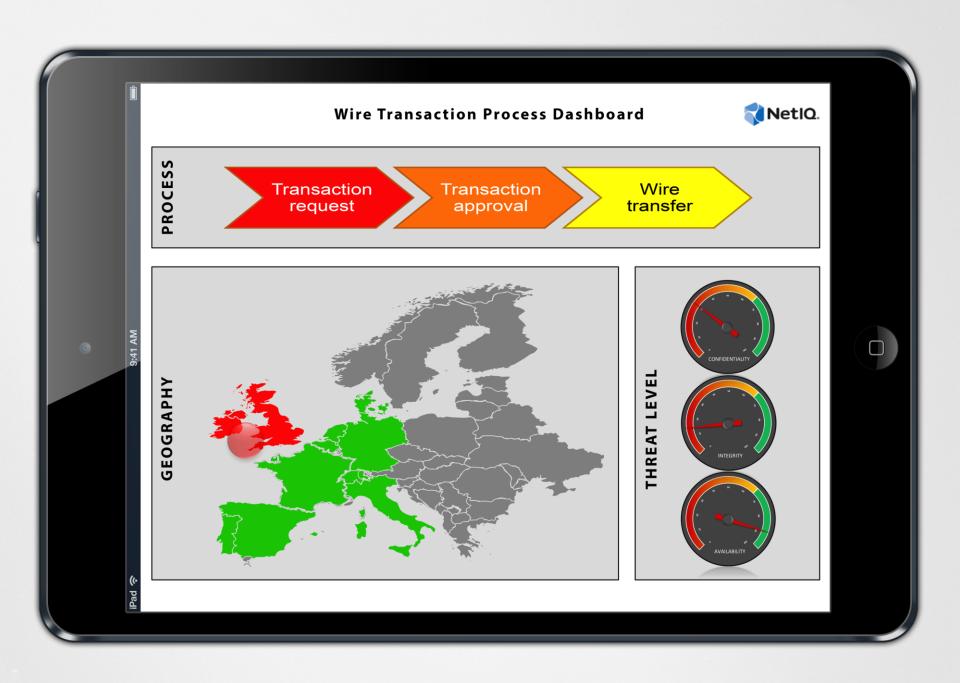
Wire Transaction Process

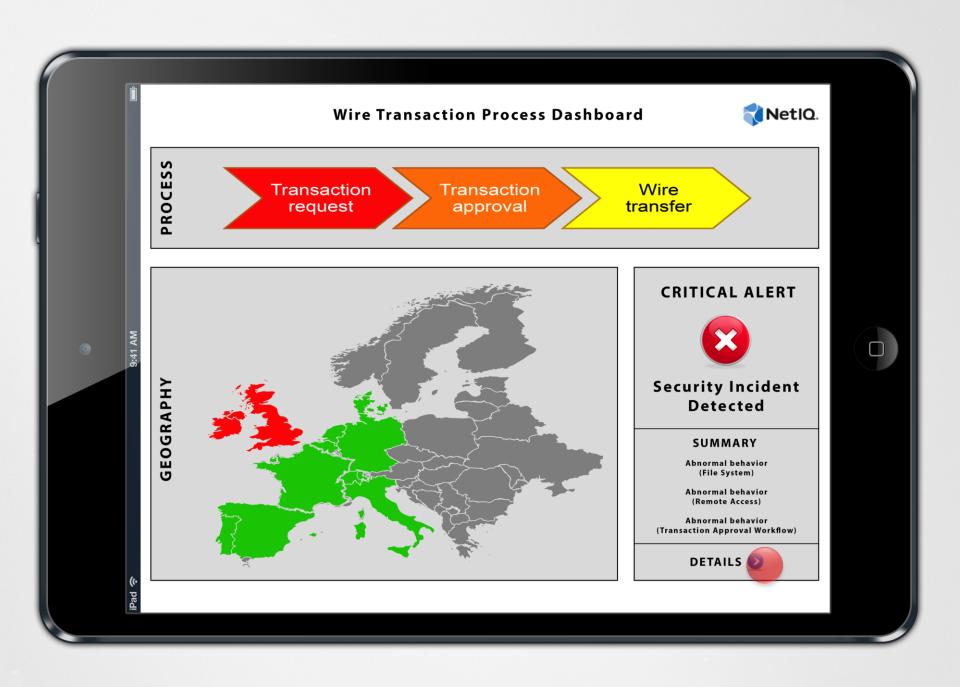
Understand the business process...

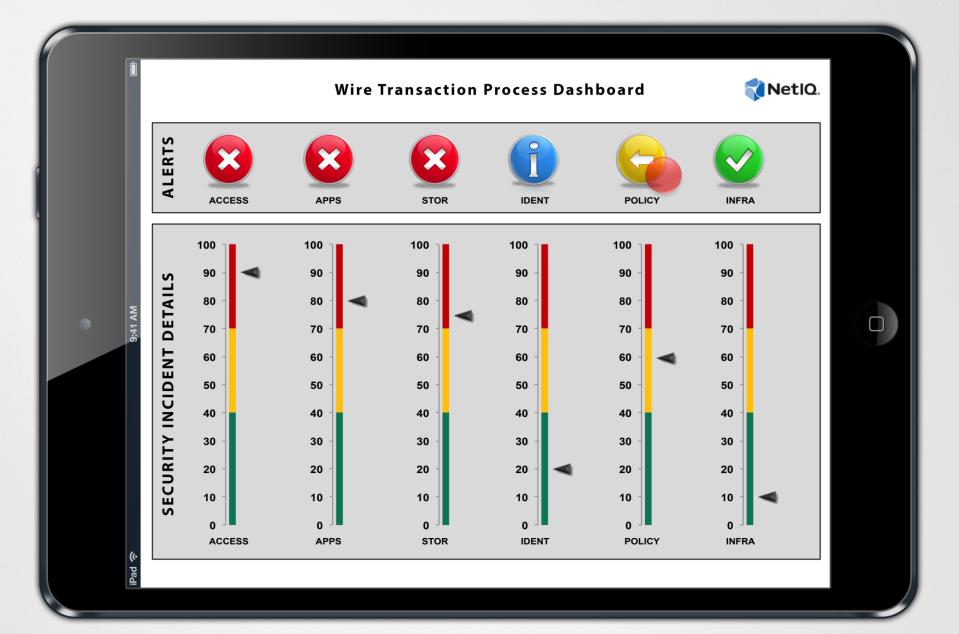


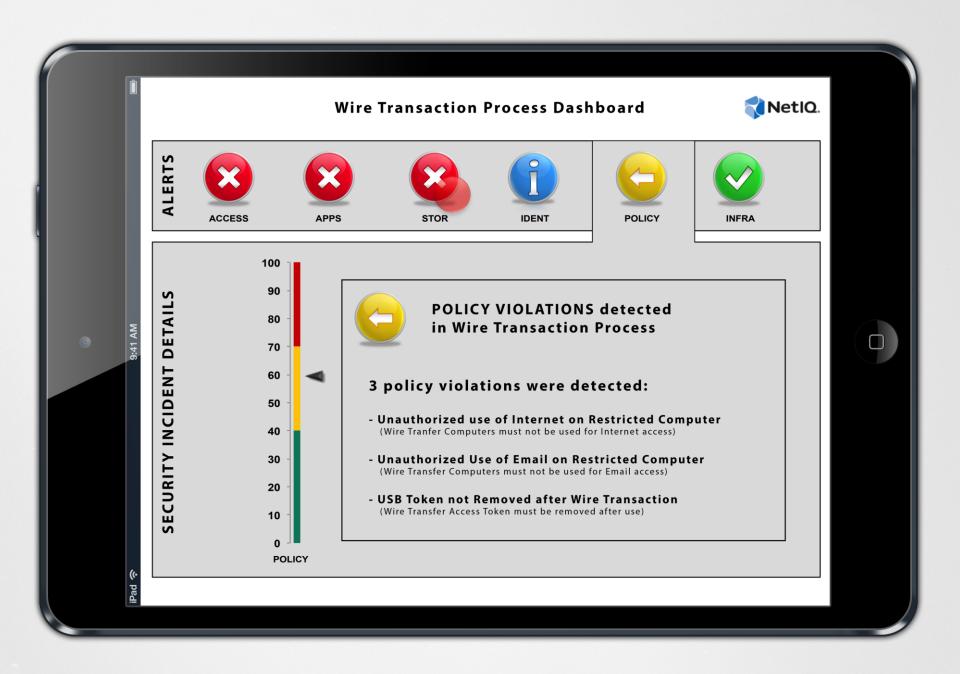
...and analyze its building blocks.

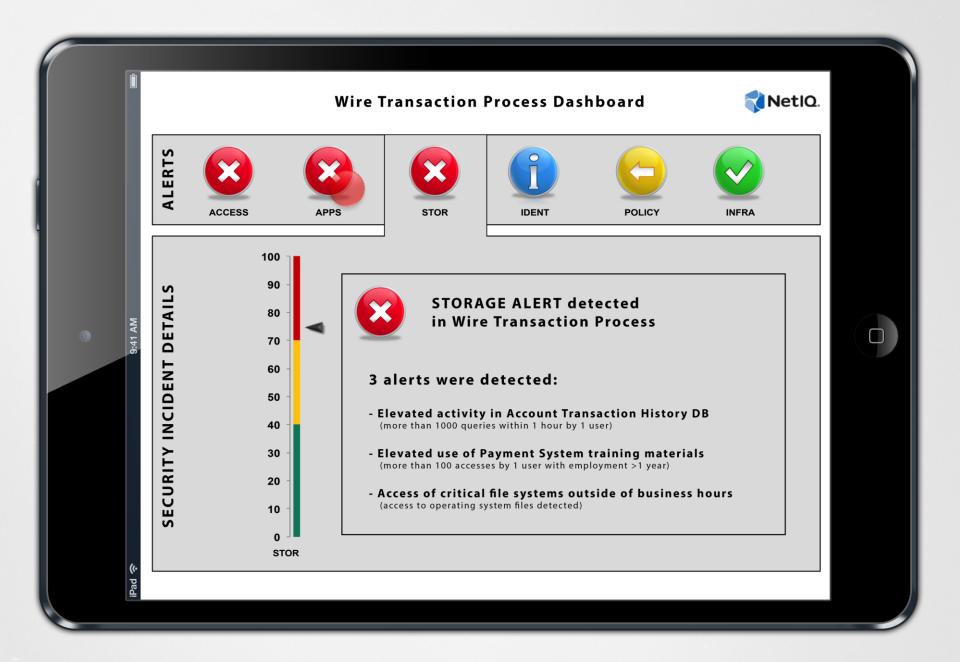


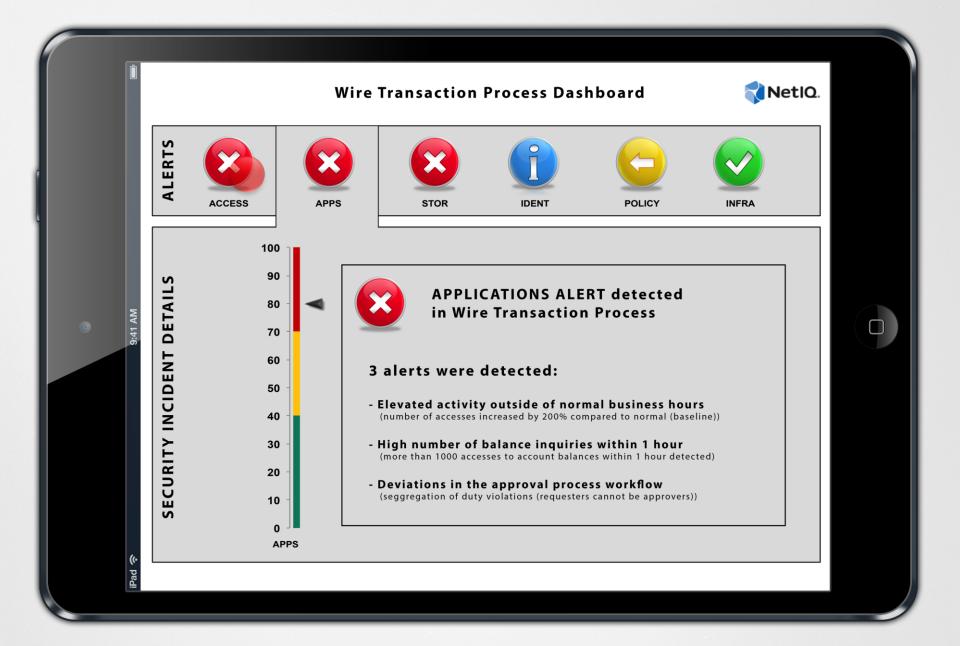


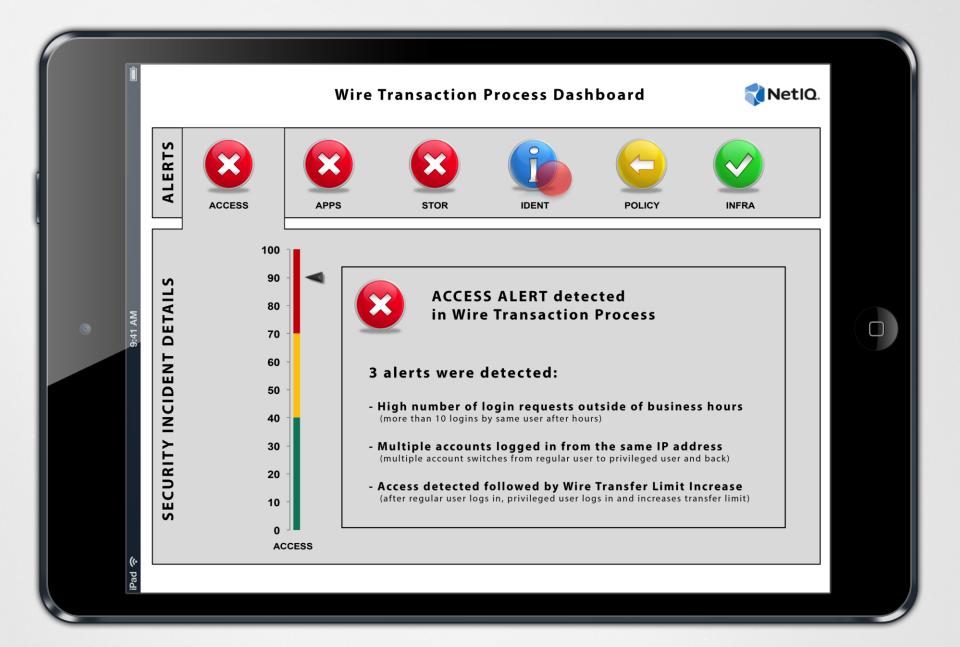


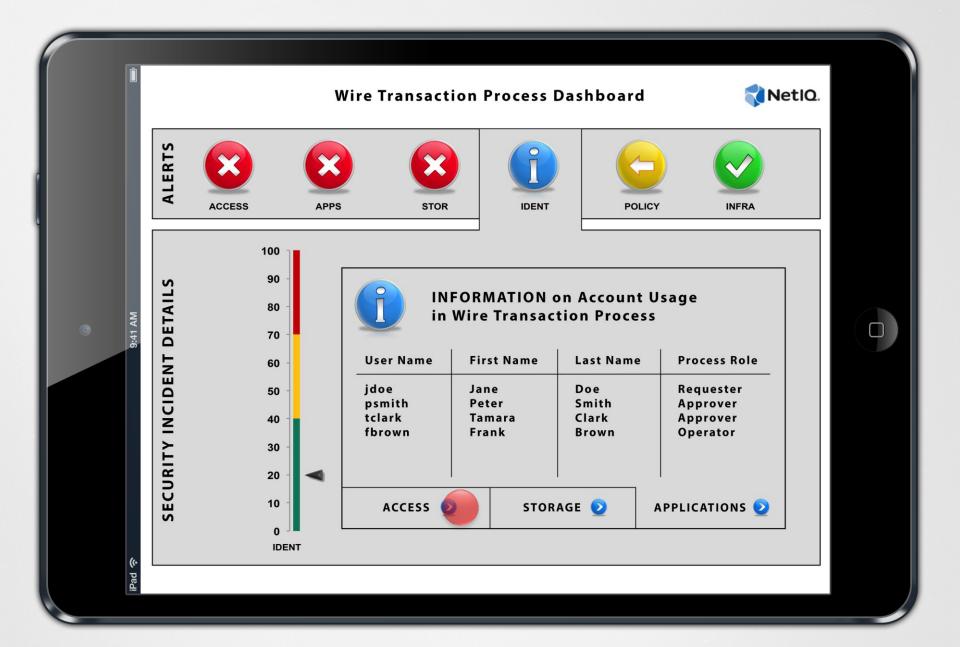


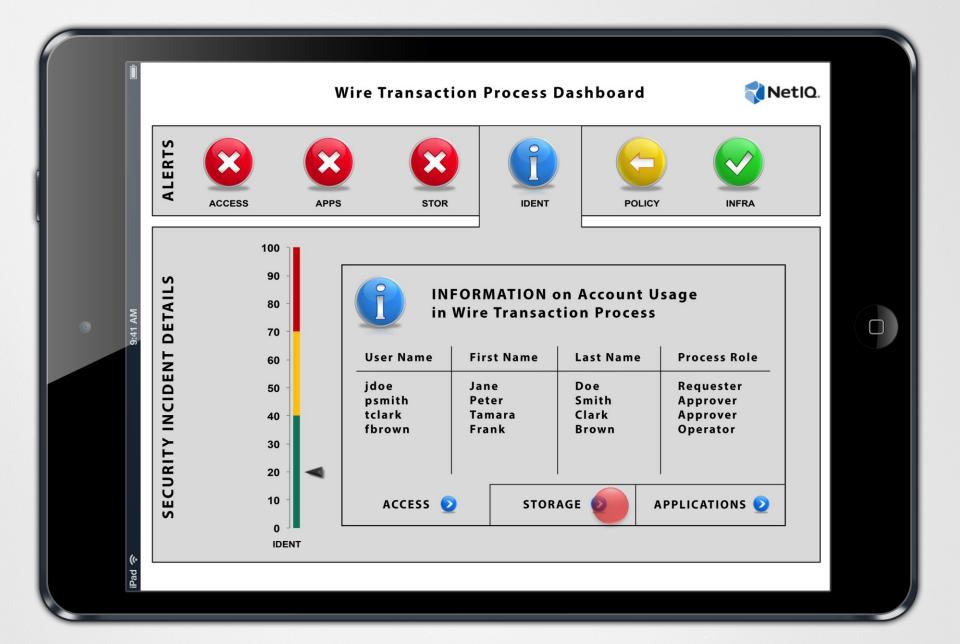


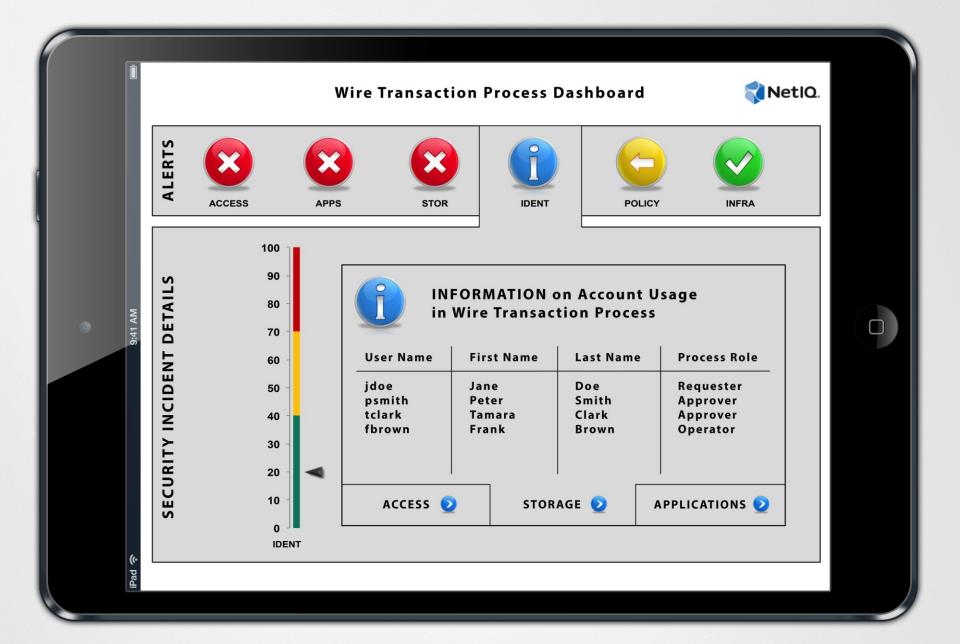












Summary

NetlQ's Approach

- Rethinking Identity and Access by viewing Security as a business process and aligning activities
- Bottom-up approaches only solve point problems, but don't show the big picture
 - One of the results of this: Security is seen as a cost center
- NetIQ's top-down approach assures that IS is seen as business-relevant
 - Result: Business alignment, proper visibility, greater awareness through executive sponsoring, etc.

What Are Your Priorities and Needs?

Access fulfillment, authorization and monitoring

Activity

Intelligence

Analytics &

Reporting

Access Monitoring

Control

Delegated

Administration

Privileged Access

Management

Log Management

Reporting

Resources / Assets

Flexibility

Access

Certification

Single Sign-on

Dashboards.

Risks & Trends

So, What's Next?

Rethinking your identity, access and security

- Every organization is different no one size fits all solution exists
 - Where do you start?
 - What is most important to you?
 - Short-term and long-term goals
- NetIQ has the answers
 - Leader in Identity, Access, Governance, and Security
 - This is just the first conversation
 - We would love to continue the discussion

For More Information

- NetIQ Website
 - www.netiq.com
- Local NetIQ Contact

White Papers





Any Questions?

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Thank you.





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