PIREAN

BEYOND AUTHENTICATION…

IDENTITY AND ACCESS MANAGEMENT FOR THE MODERN ENTERPRISE

Stephen Williams, Pirean
Jon Harry, IBM

23rd April 2013

infosecurity® EUROPE

Premier Business Partner IBM®
Ready for Security Intelligence

IBM Business Partner Award
2013
Beacon Winner

OUR ORGANISATION AND SPECIALIST SKILLS

PIREAN

Focused on delivery, integration and managed services around Identity and Access Management.

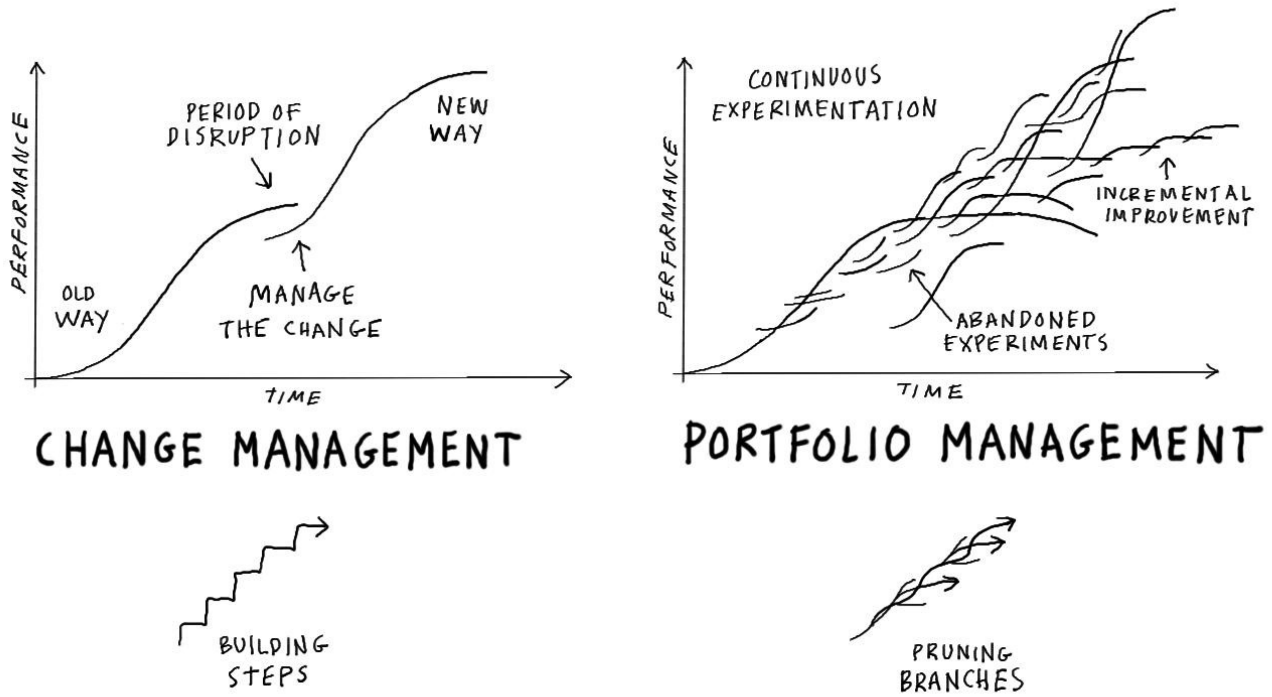
- Specialist Consultancy (Principal Consultant, Senior, Consultant and Juniors);
- Project and Programme Management;
- Analysis (Business and Technical Analysts);
- Software Development;
- Test Services; and
- Creative (including interface design and internal marketing).

PIREAN SOFTWARE

A dedicated Software Development organisation, our portfolio helps our clients to achieve their business goals by providing capabilities across:

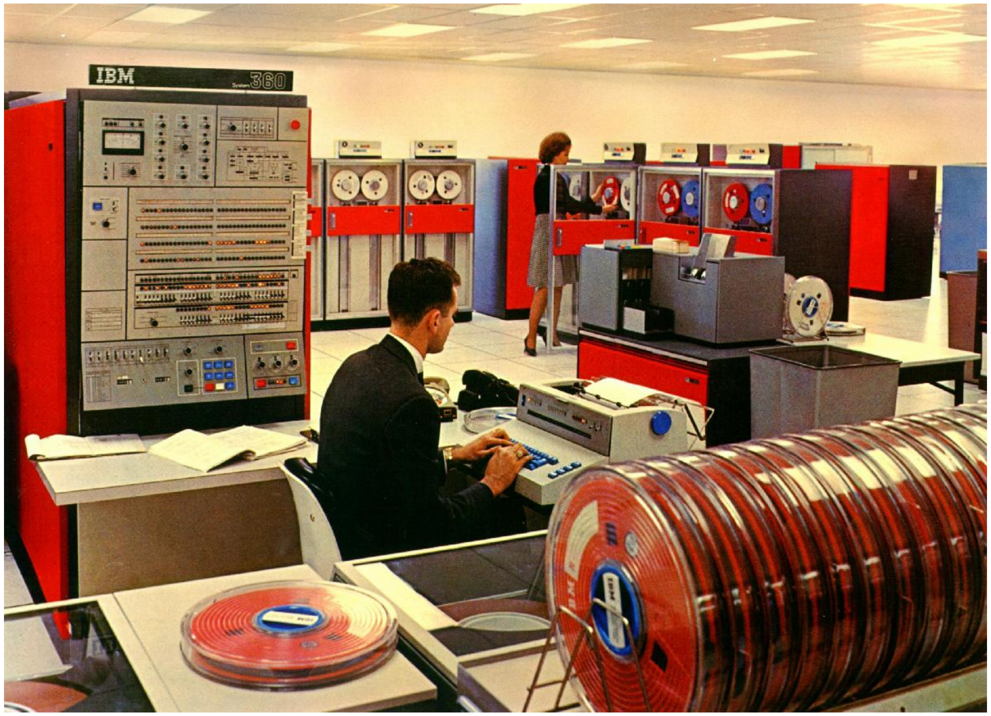
- Centralised Audit;
- Federated Identity Management;
- Identity and User Lifecycle Management;
- Identity and Access Governance, included Segregation of Duties Management;
- Mobile Access and Device Management;
- Strong Authentication, Web Access Management and Single Sign-On.

WHY DO WE NEED TO MOVE ‘BEYOND AUTHENTICATION’?

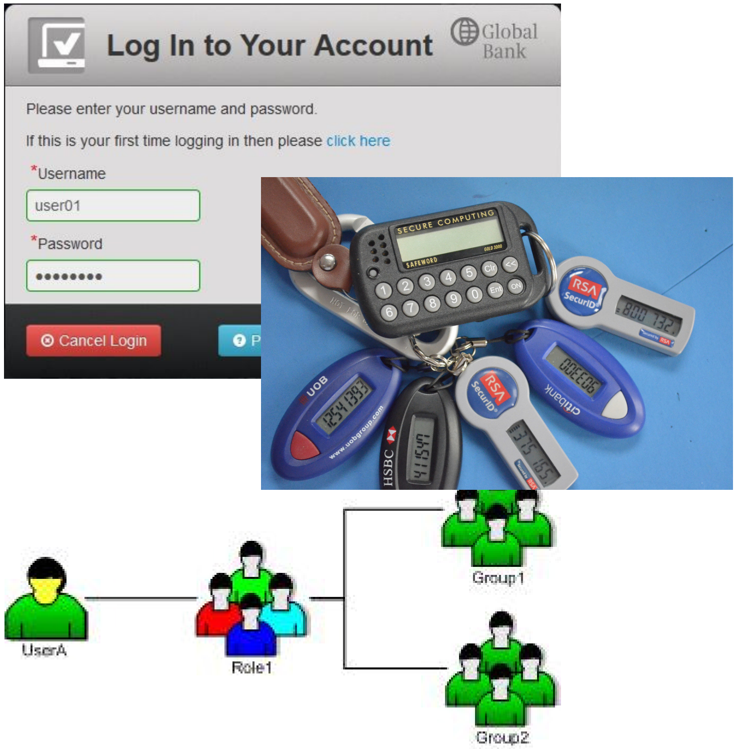


THE TRADITIONAL IT MODEL

- Users
  - Internal, External, Hybrid (i.e. VPN)
- Devices
  - PCs (desktop/laptop) and email clients
- Risks
  - Internal staff, External users, Malware
- Entitlements
  - Static and setup in advance
  - Internal users access internal apps
  - External user access external apps
- Identities
  - HR driven enrolment with fixed entitlements
  - Self or pre-registered external users with simple entitlement model



TRADITIONAL IDENTITY AND ACCESS MANAGEMENT



Log In to Your Account

Please enter your username and password.

If this is your first time logging in then please click here

*Username: user01

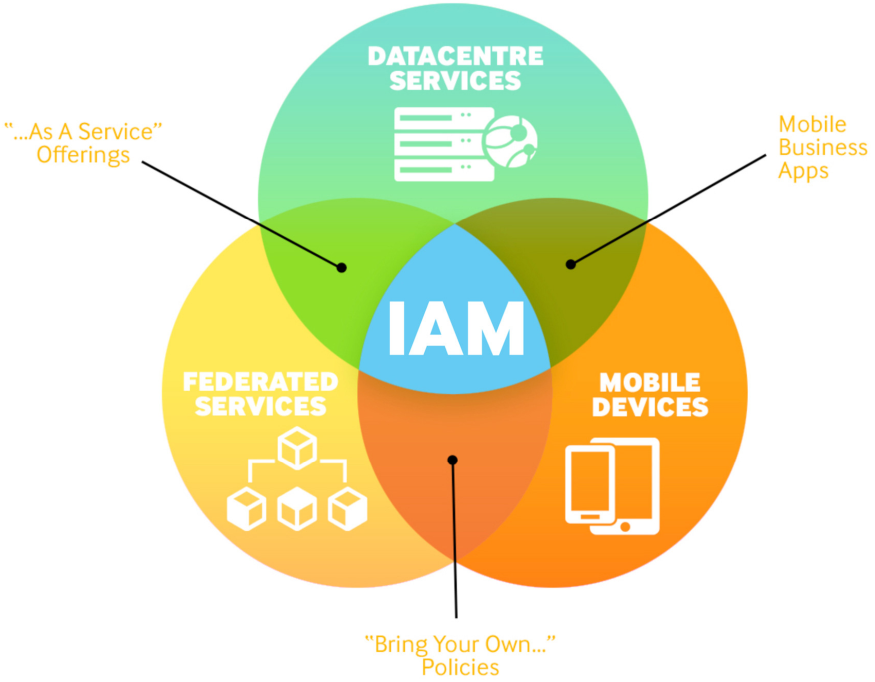
*Password: ••••••••

- Web Access Management
  - Centralised proxy or a collection of deployed agents
- SSO
  - Cookies, HTML form completion, headers, Kerberos
- Controls
  - Passwords, hardware tokens, SMS OTP
- Compliance
  - Analysis, review and approval of entitlements held within every internal user data repository
  - Resolution or dispensation of breaches
- Data Privacy
  - Enforcement of secure data channels
  - Privileged user/system account controls
  - Lock down of client and server OS

ADAPTING TO FUNDAMENTAL CHANGES

- Cloud
  - Applications are no longer only internal
- Devices
  - End user devices can be mobile
  - Devices no longer all internally owned
- User Expectation
  - Intuitive access at anytime, from anywhere on anything
- Business Expectation
  - IAM is now a business differentiator
  - Ability for IAM to adapt rapidly
- Risk
  - Context and device now contributory factors

NEW IAM REQUIREMENTS



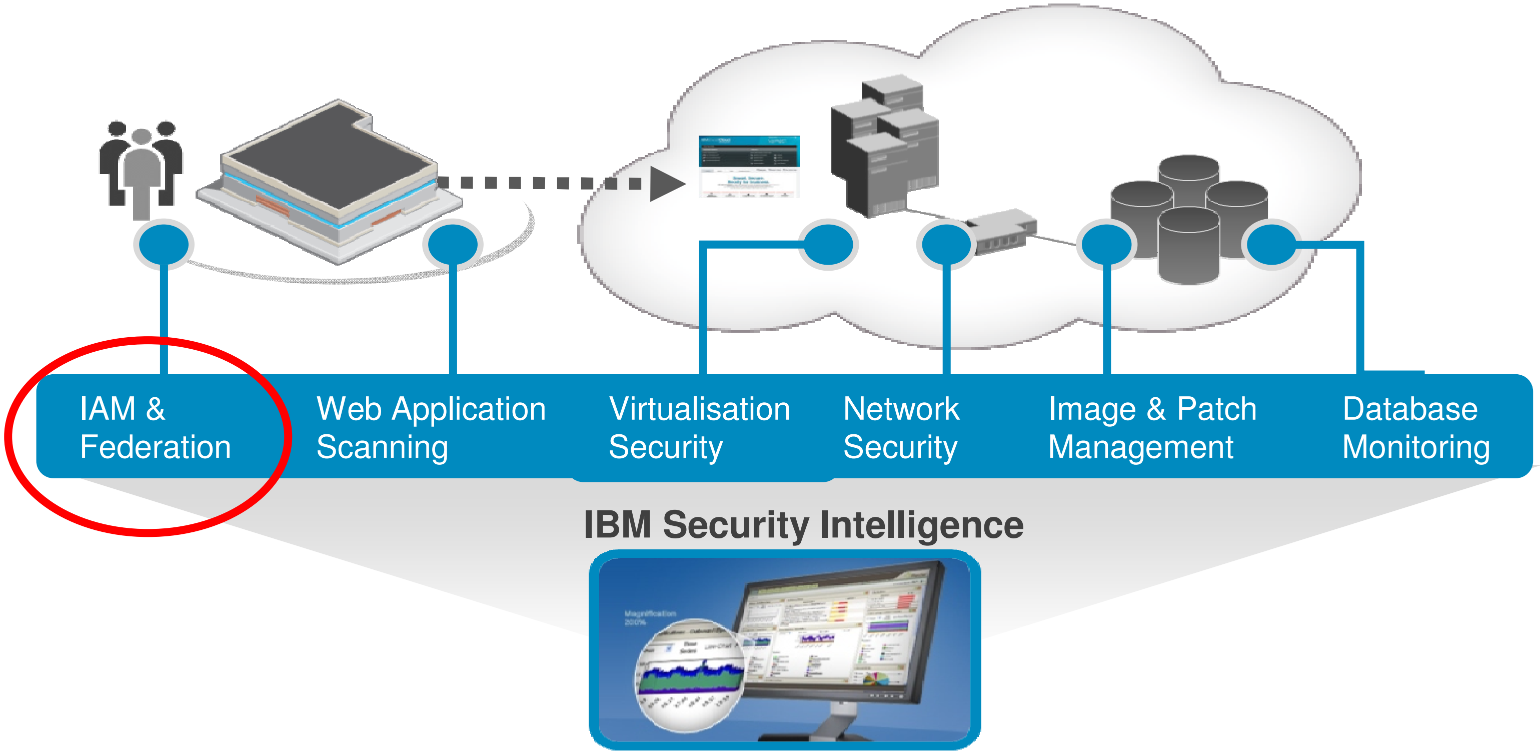
- IAM that spans Federated, Datacentre and mobile services
- Support for incremental change
- Evolving beyond the password
- Mitigating the need for ‘role mining’
- Support for ‘B.Y.O.D.’
- Support for ‘Bring Your Own Identity’
- ‘Risk-appropriate’ entitlements
- Unification of user experience

HOW DO WE ADAPT?

- Orchestration
  - Unification of UX, IAM and business processes
  - Pluggable adaptive IAM workflows
  - Unification of multi-vendor infrastructures
- Strength
  - Work from a proven security infrastructure
  - Make use of new open source technology
  - Align with proven industry standards
    - SAML, OAuth, WS-*,… OpenID Connect
- Context
  - Understand a service’s Business Impact Level (BIL)
  - Appreciate the Level of Assurance (LoA) in a user’s identity
  - Recognise the status of a user’s chosen device
    - Untrusted, Trusted and Compliant

IDENTITY IS CENTRAL TO ENABLING ACCESS EVERYWHERE

IBM IS HELPING CLIENTS TACKLE INSIDER THREAT AND ADOPT SOCIAL, MOBILE AND CLOUD USE CASES TODAY WITH FLEXIBLE, LAYERED SECURITY SOLUTIONS



IAM & Federation

Web Application Scanning

Virtualisation Security

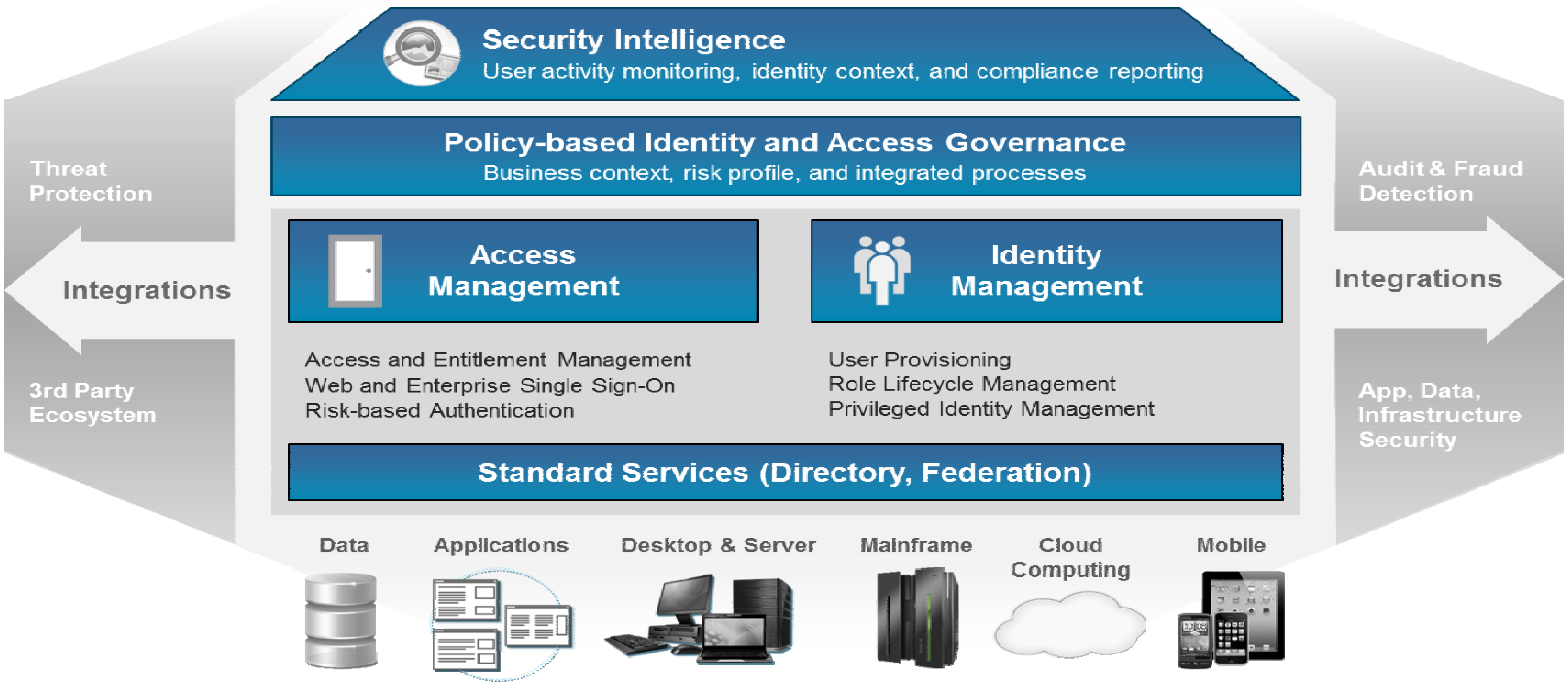
Network Security

Image & Patch Management

Database Monitoring

IBM Security Intelligence

IBM NEXT GENERATION IDENTITY AND ACCESS MANAGEMENT STRATEGY



Security Intelligence
User activity monitoring, identity context, and compliance reporting

Policy-based Identity and Access Governance
Business context, risk profile, and integrated processes

Access Management

Access and Entitlement Management
Web and Enterprise Single Sign-On
Risk-based Authentication

Identity Management

User Provisioning
Role Lifecycle Management
Privileged Identity Management

Standard Services (Directory, Federation)

Threat Protection

Integrations

3rd Party Ecosystem

Audit & Fraud Detection

Integrations

App, Data, Infrastructure Security

Data
Applications
Desktop & Server
Mainframe
Cloud Computing
Mobile

Standardised IAM and Compliance Management

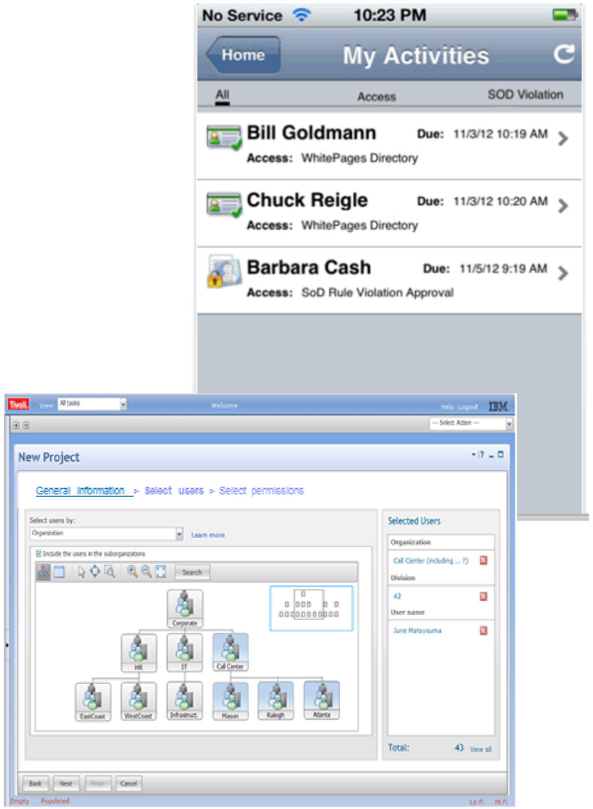
Secure Cloud, Mobile, Social Interaction

Insider Threat and IAM Governance

IDENTITY MANAGER 6.0 AND PRIVILEGED IDENTITY MANAGER

IBM SECURITY IDENTITY MANAGER 6.0

- Integrated role and identity management
- Adapters for provisioning to cloud services
- Rich adapters with health check, self-monitoring
- Simplified Web services API for self service UI



Bill Goldmann Due: 11/3/12 10:19 AM
Access: WhitePages Directory

Chuck Reigle Due: 11/3/12 10:20 AM
Access: WhitePages Directory

Barbara Cash Due: 11/5/12 9:19 AM
Access: SoD Rule Violation Approval

Select users by: Organization
Learn more

☑ Include the users in the suborganizations

Selected Users

Organization: Call Center (including ... ?)

Division: 42

User name: June Matsuyama

Total: 43 View all

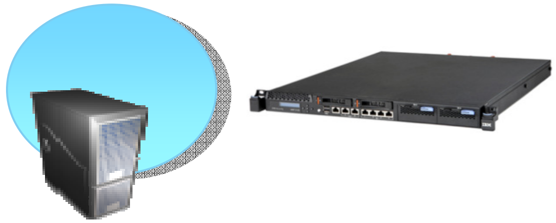
IBM SECURITY PRIVILEGED IDENTITY MANAGER

- Control shared access and lifecycle
- Automate check-in/check-out with fine-grained audit
- Integrated with Enterprise SSO

IBM SECURITY ACCESS MANAGER 7.0

IBM SECURITY ACCESS MANAGER FOR WEB

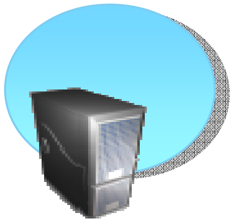
- User access + integrated web content protection
- New Hardware Appliance (Access Manager Proxy)
- Highly scalable web access management
- Lower TCO and easy to deploy 3rd party integration



Web Access & Application Protection
(software, virtual, HW appliance)

IBM SECURITY ACCESS MANAGER FOR CLOUD & MOBILE

- OAuth authorisation service and enforcement points
- Built-in Risk-based Access control
- Wizard-driven integration with Google, SalesForce



Federated, Risk-based Access

INTRODUCING PIREAN SOFTWARE

Our focus is to build a portfolio of solutions which address the challenges of Identity, Access and Mobile management.

Our Software portfolio helps accelerate IBM deployments and enables clients to achieve their business goals with:

ACCESS: ONE

User Experience,
Self-Service,
Mobile Authentication,
Mobile Device Management,
Single Sign-On,
Strong Authentication, and
Federated Identity.

Premier Business Partner
IBM

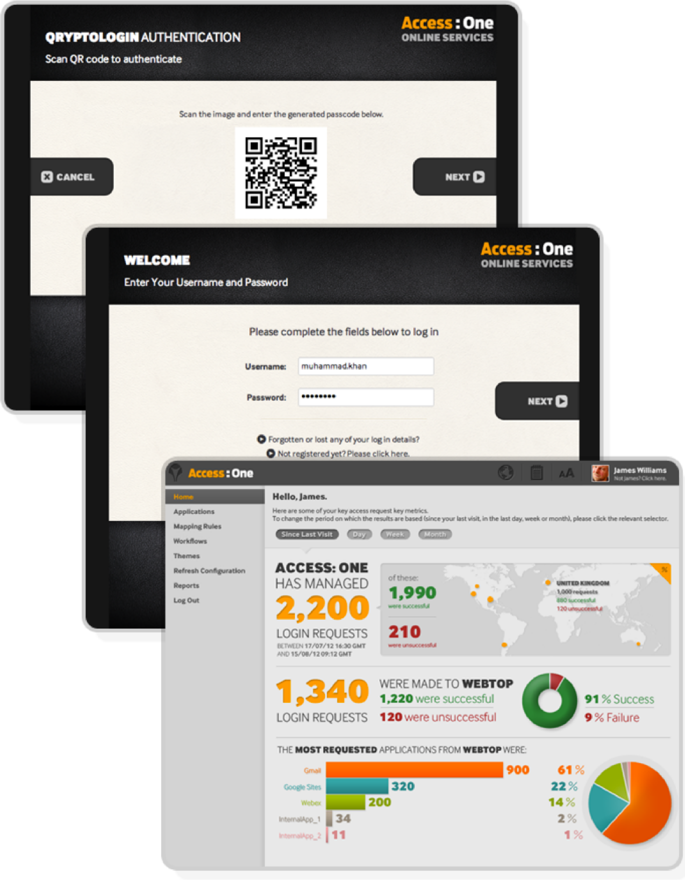
Ready for
Security Intelligence

RISK MANAGER

Service Desk Integration,
Rule Based Compliance and Risk,
Dynamic Reporting and Dashboarding,
Entitlements Enrichment,
Compliance and Audit.

Premier Business Partner
IBM

Ready for
Tivoli software



QRYPTOLOGIN AUTHENTICATION
Scan QR code to authenticate

Scan the image and enter the generated passcode below.

WELCOME
Enter Your Username and Password

Please complete the fields below to log in

Username: muhammad.khan
Password: ••••••••

Forgotten or lost any of your log in details?
Not registered yet? Please click here.

Hello, James.

Here are some of your key access request key metrics.
To change the period on which the results are based (since your last visit, in the last day, week or month), please click the relevant selector.

ACCESS: ONE HAS MANAGED 2,200 LOGIN REQUESTS BETWEEN 17/07/12 16:30 GMT AND 15/08/12 09:12 GMT

of these: 1,990 were successful
210 were unsuccessful

UNITED KINGDOM
1,000 requests
880 successful
120 unsuccessful

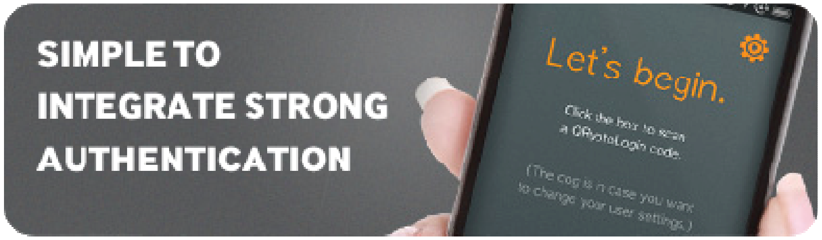
1,340 LOGIN REQUESTS WERE MADE TO WEBTOP
1,220 were successful
120 were unsuccessful

91 % Success
9 % Failure

THE MOST REQUESTED APPLICATIONS FROM WEBTOP WERE:

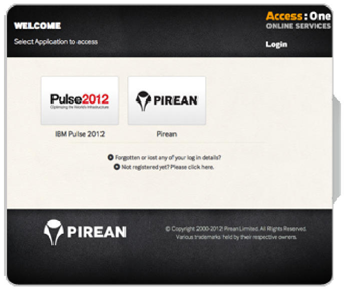
PIREAN ACCESS: ONE CAPABILITIES

- Provides an IAM workflow framework
- Supports incremental/rapid change
- Context-driven IAM
- WebTop and corporate AppStore
- Multiple parallel UI themes
- Modelling of LoA, BIL and risk score
- Dashboarding of IAM metrics


SIMPLE TO INTEGRATE STRONG AUTHENTICATION
Let's begin.
Click the box to scan a QRyptoLogin code.
(The cog is in case you want to change your user settings.)

INTRODUCING ACCESS: ONE – SAMPLE USE CASES

The screenshots below illustrate some common use cases of how customers have leveraged Access: One to strengthen security and enrich the user experience during user registration and authentication.



Select Application to access

Forgotten or lost any of your log in details?

Not registered yet? Please click here.

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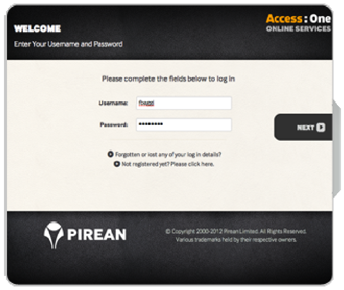

Enter Your Username and Password

Please complete the fields below to log in

Username: fbugg

Password: ••••••••

Forgotten or lost any of your log in details?

Not registered yet? Please click here.

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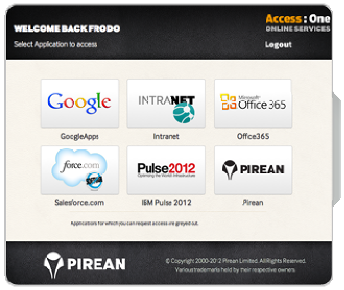

Select Application to access

Applications for which you can request access are greyed out.

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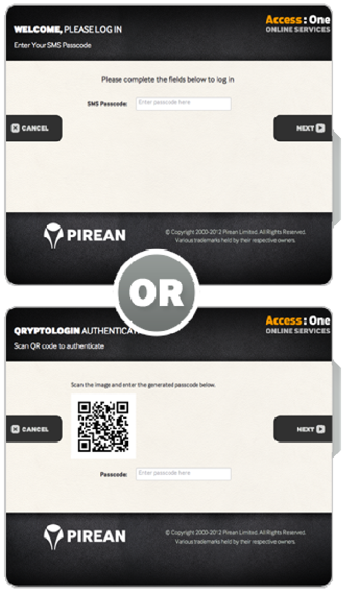

Enter Your SMS Passcode

Please complete the fields below to log in

SMS Passcode: Enter passcode here

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Scan QR code to authenticate

Scan the image and enter the generated passcode below.

Passcode: Enter passcode here

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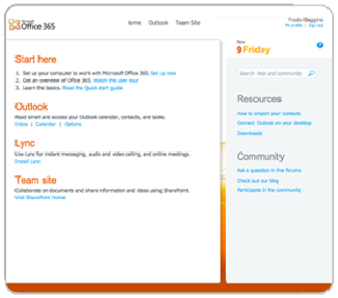


1. Set up your computer to work with Microsoft Office 365. Set up now
2. Get an overview of Office 365. Watch the user tour
3. Learn the basics. Read the Quick start guide

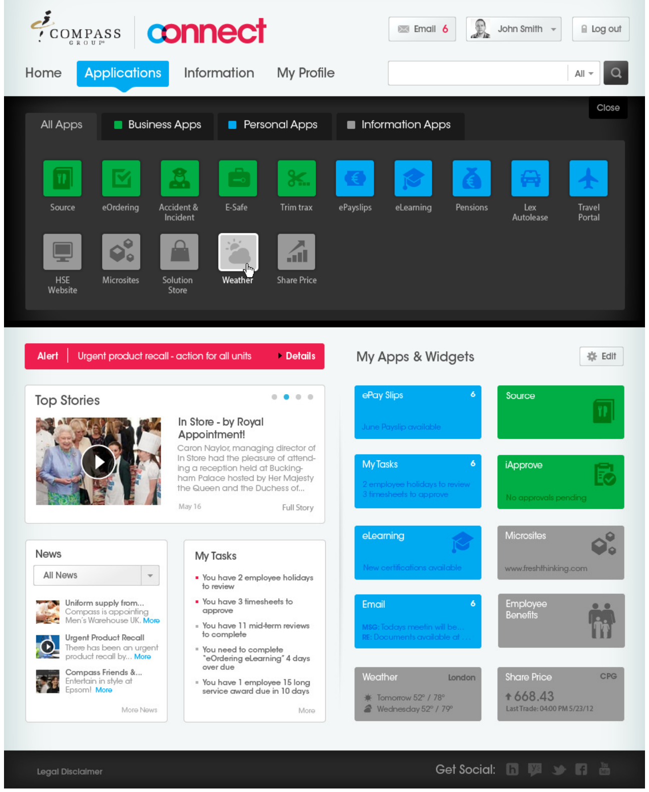
Read email and access your Outlook calendar, contacts, and tasks.

Use Lync for instant messaging, audio and video calling, and online meetings.

Collaborate on documents and share information and ideas using SharePoint.

INTRODUCING ACCESS: ONE – SAMPLE LOOK AND FEEL

The screenshots below illustrate production instances of Access: One protecting customer systems.



Alert | Urgent product recall - action for all units ▸ Details

Top Stories

In Store - by Royal Appointment!

Caron Naylor, managing director of In Store had the pleasure of attending a reception held at Buckingham Palace hosted by Her Majesty the Queen and the Duchess of...

May 16 Full Story

News

All News

Uniform supply from... Compass is appointing Men's Warehouse UK. More

Urgent Product Recall There has been an urgent product recall by... More

Compass Friends &... Entertain in style at Epsom! More

More News

My Tasks

- You have 2 employee holidays to review
- You have 3 timesheets to approve
- You have 11 mid-term reviews to complete
- You need to complete "eOrdering eLearning" 4 days over due
- You have 1 employee 15 long service award due in 10 days

More

ePay Slips 6 — June Payslip available

Source

My Tasks 6 — 2 employee holidays to review; 3 timesheets to approve

iApprove — No approvals pending

eLearning — New certifications available

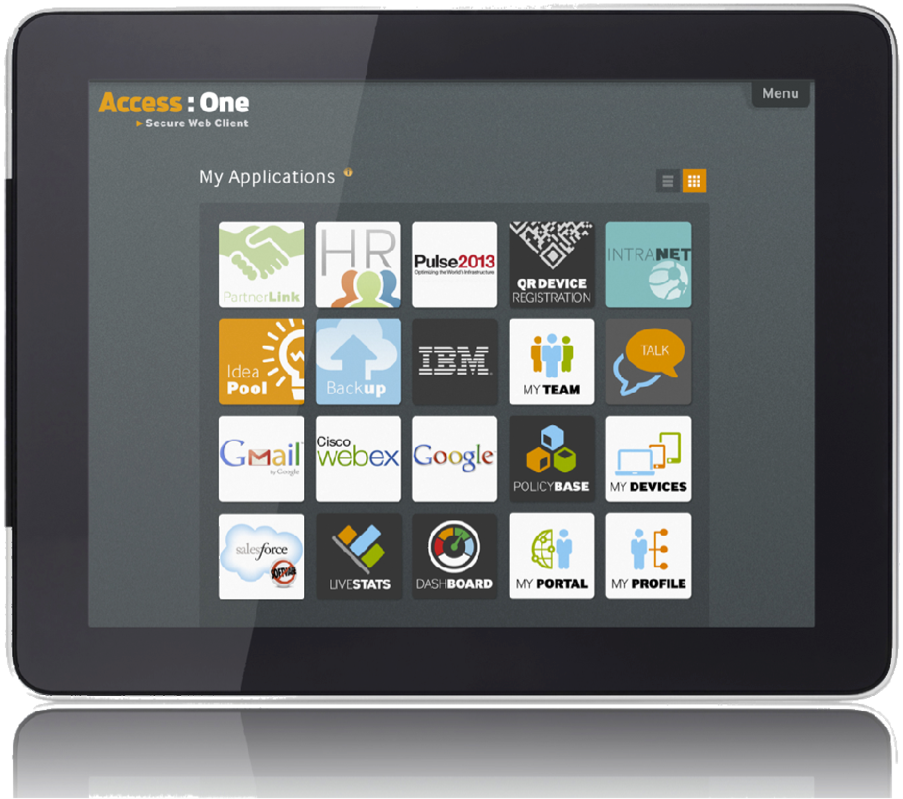
Microsites — www.freshthinking.com

Email 6 — MSG: Todays meetin will be... RE: Documents available at ...

Employee Benefits

Weather London — Tomorrow 52° / 78°; Wednesday 52° / 79°

Share Price CPG — ↑ 668.43 Last Trade: 04:00 PM 5/23/12

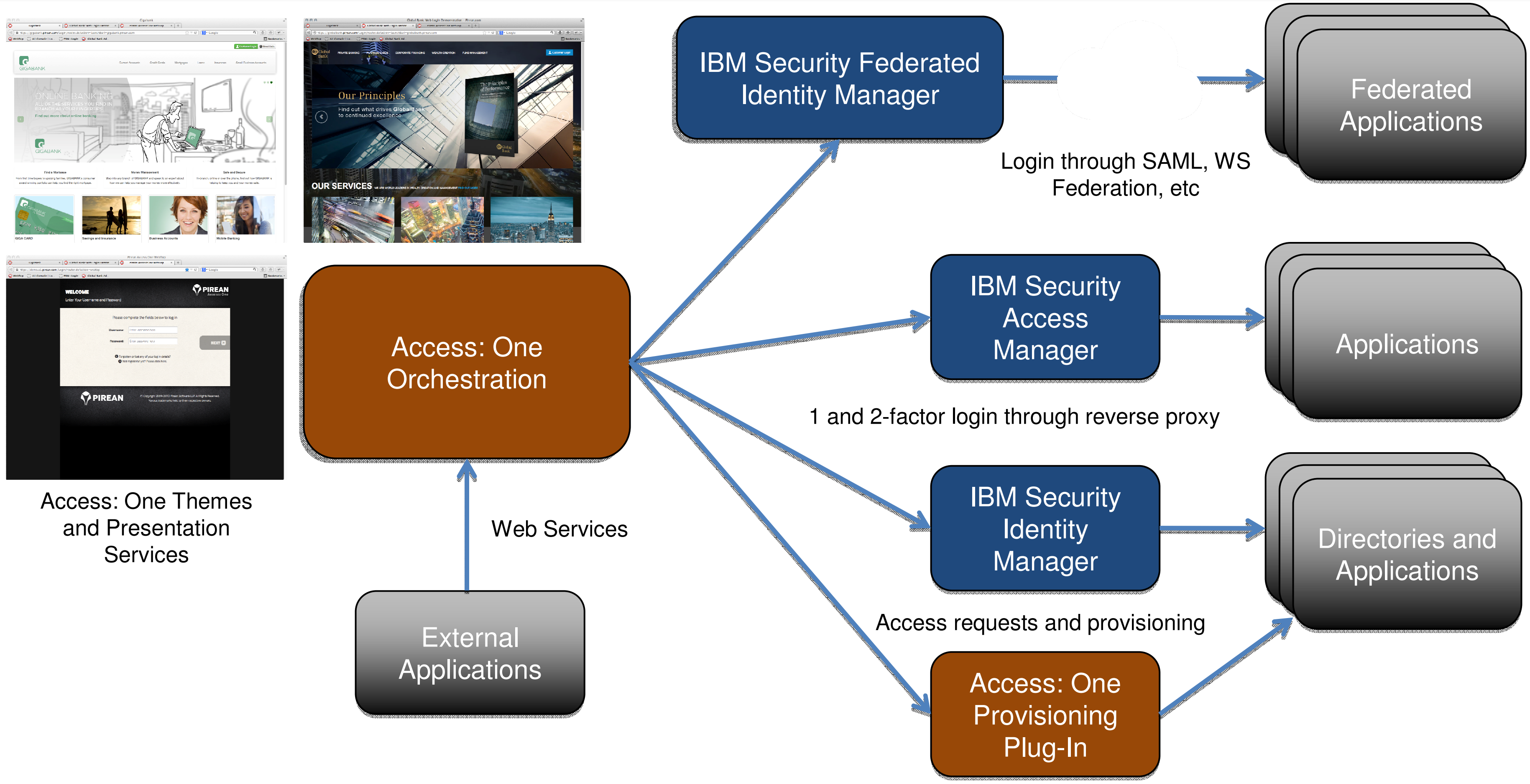


WALKTHROUGH OF REAL LIFE SCENARIOS

BEYOND AUTHENTICATION – REAL LIFE SCENARIOS

	Internal Employees	External Customers	Web Services
Audience	1K to 100K users	100K – 100M users	10s/100s services
Compliance Requirements	Strong with regular review	Low	Strong with regular review
Entitlements	Complex, changeable, privileged access	Simple and static	Simple and static
Access Mgmt.	Multi-factor, risk/context driven, dynamic authorisation	Strong and easy to use. Supports BYOI	Password or token (WS-*, SAML, Kerberos)
Identity Mgmt.	Centralised, complex and approval-driven process	User driven via self service capabilities	Typically setup locally
UX	Easy of use with low service desk dependency	Rich UX with cross device support	None

ACCESS: ONE AND IBM – PROVIDING CENTRALISED ACCESS FOR CLOUD AND CORPORATE RESOURCES



Access: One Themes and Presentation Services

Access: One Orchestration

External Applications

Web Services

IBM Security Federated Identity Manager

Login through SAML, WS Federation, etc

Federated Applications

IBM Security Access Manager

1 and 2-factor login through reverse proxy

Applications

IBM Security Identity Manager

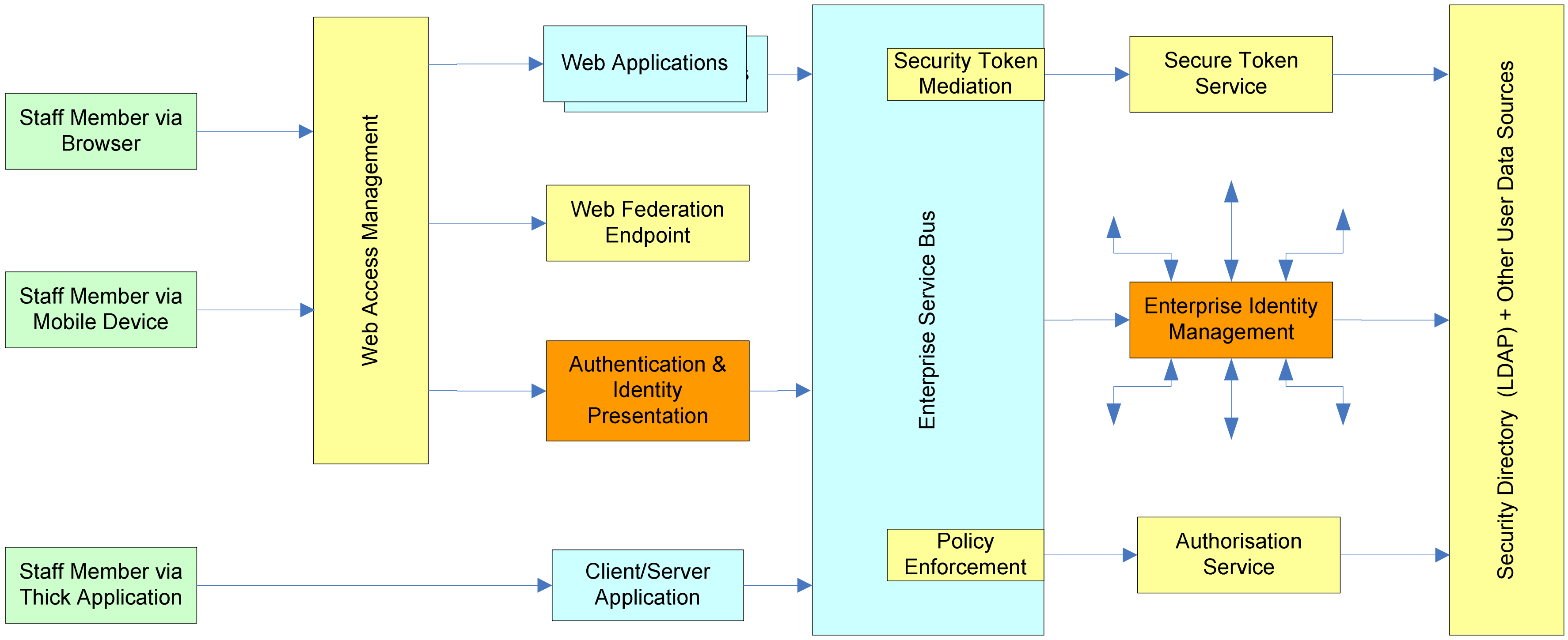
Access requests and provisioning

Directories and Applications

Access: One Provisioning Plug-In

WALKTHROUGH OF REAL LIFE SCENARIOS

BEYOND AUTHENTICATION – INTERNAL EMPLOYEE WEB ACCESS SCENARIO


Staff Member via Browser
Staff Member via Mobile Device
Staff Member via Thick Application
Web Access Management
Web Applications
Web Federation Endpoint
Authentication & Identity Presentation
Client/Server Application
Enterprise Service Bus
Security Token Mediation
Policy Enforcement
Secure Token Service
Enterprise Identity Management
Authorisation Service
Security Directory (LDAP) + Other User Data Sources

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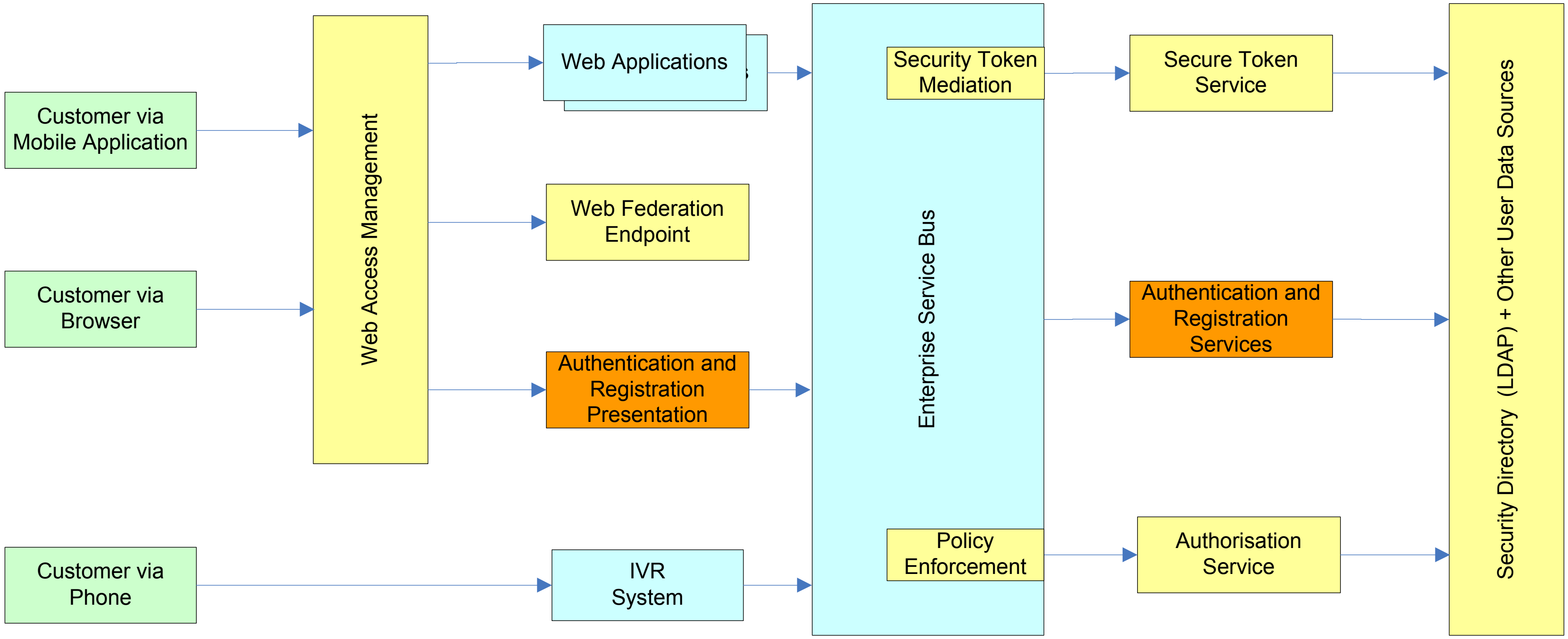
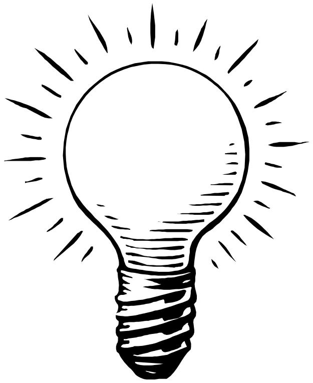
BEYOND AUTHENTICATION – EXTERNAL CUSTOMERS WEB ACCESS



CONCLUSIONS



- An(other) evolution in the IT landscape has begun

- We need to:
  - Support on-going incremental change
  - Embrace the new opportunities in Cloud, Mobile and Data
  - Build with the strongest security infrastructure with the most innovative tools

- IBM Security Portfolio + Pirean Software = Beyond Authentication

NEXT STEPS

WANT TO KNOW MORE?

- Live Access: One demonstrations are available at the IBM stand on the exhibition show floor (H80)

- A webinar on ‘Orchestrated IAM’ will be held in May
  - Please indicate your interest in attending on the feedback form

  - IBM and Pirean co-hosted IAM Proof-Of-Technology session in May
  - Please indicate your interest in attending on the feedback form

PIREAN SOFTWARE

www.pireansoftware.com