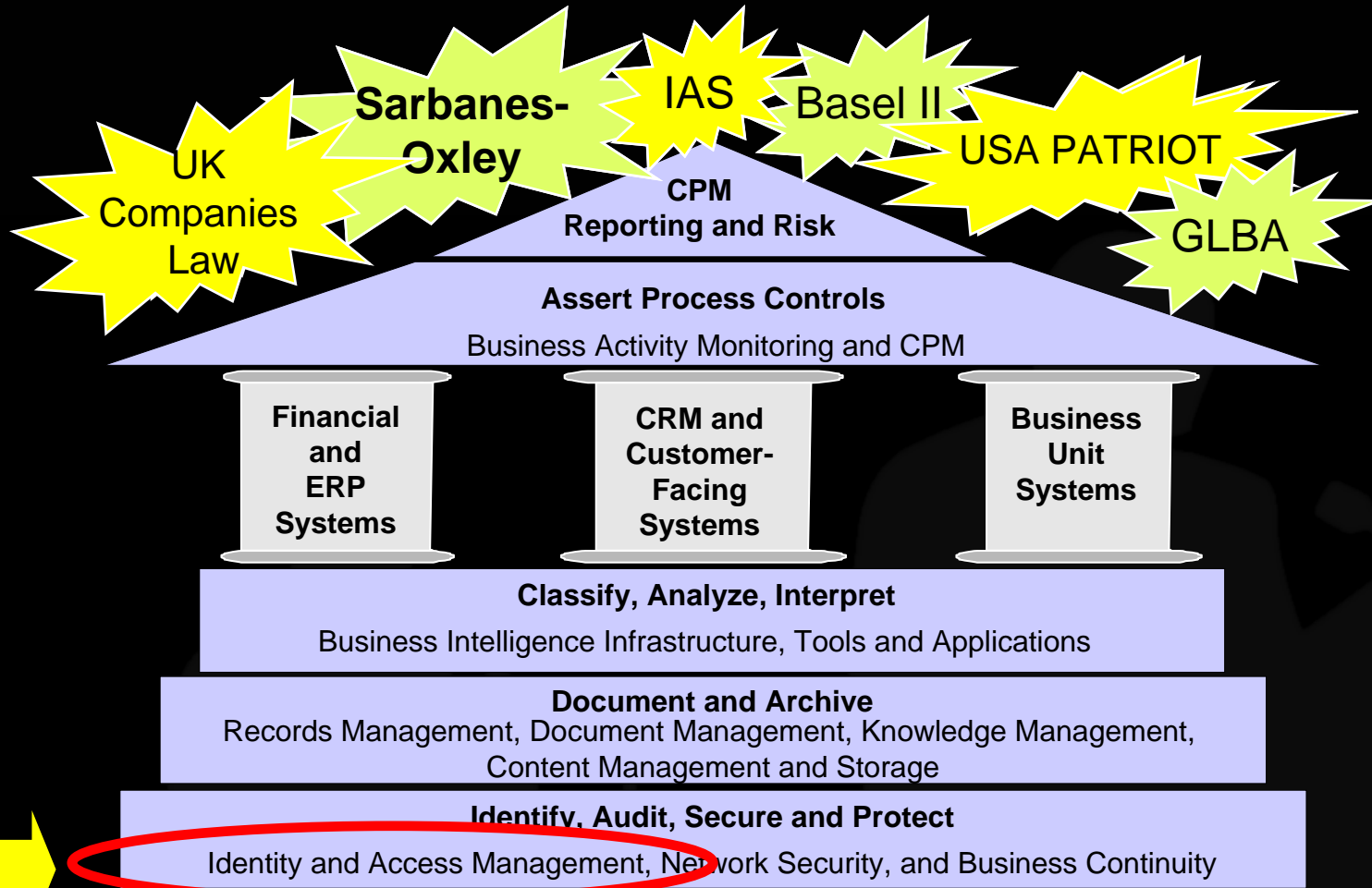IBM Software Group

Access & Identity Management: Regulation and Compliancy

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Gartner's View…

UK Companies Law

Sarbanes-Oxley

IAS

Basel II

USA PATRIOT

GLBA

CPM Reporting and Risk

Assert Process Controls

Business Activity Monitoring and CPM

Financial and ERP Systems

CRM and Customer-Facing Systems

Business Unit Systems

Classify, Analyze, Interpret

Business Intelligence Infrastructure, Tools and Applications

Document and Archive
Records Management, Document Management, Knowledge Management, Content Management and Storage

Identify, Audit, Secure and Protect

Identity and Access Management, Network Security, and Business Continuity

Where to Start

Acronym Key
CFR = Code of Federal Regulations
CPM = corporate performance management
CRM = customer relationship management
ERP = enterprise resource planning
EU DPD = European Union Data Protection Directive
IAS = International Accounting Standards

The Process Issues of Identity Management

- Provisioning
  - **Is <u>every</u> user account on <u>every</u> resource valid?**
  - **Is user access configured correctly to <u>every</u> resource?**
  - **And does it stay that way?**

- Productivity
  - **Are users <u>efficiently</u> gaining access to valid resources?**

- Access
  - **Are *access policies* and *data disclosure rules* implemented consistently across <u>every</u> application, data source and operating system?**

- Audit
  - **Can I prove all of this to the auditor, for all users, systems and operational information?**

Service-Oriented Architecture (SOA)
Enabling Easier Change

What is… … a service?

A **repeatable business task** – e.g., check customer credit; open new account
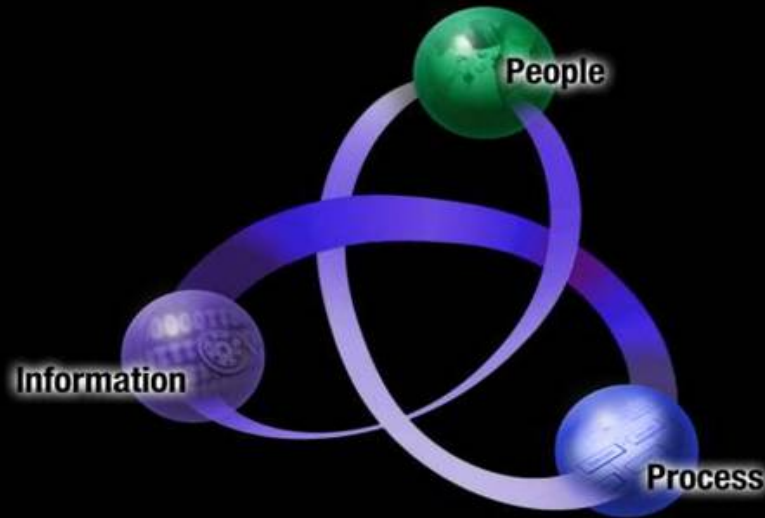
… service oriented architecture (SOA)?

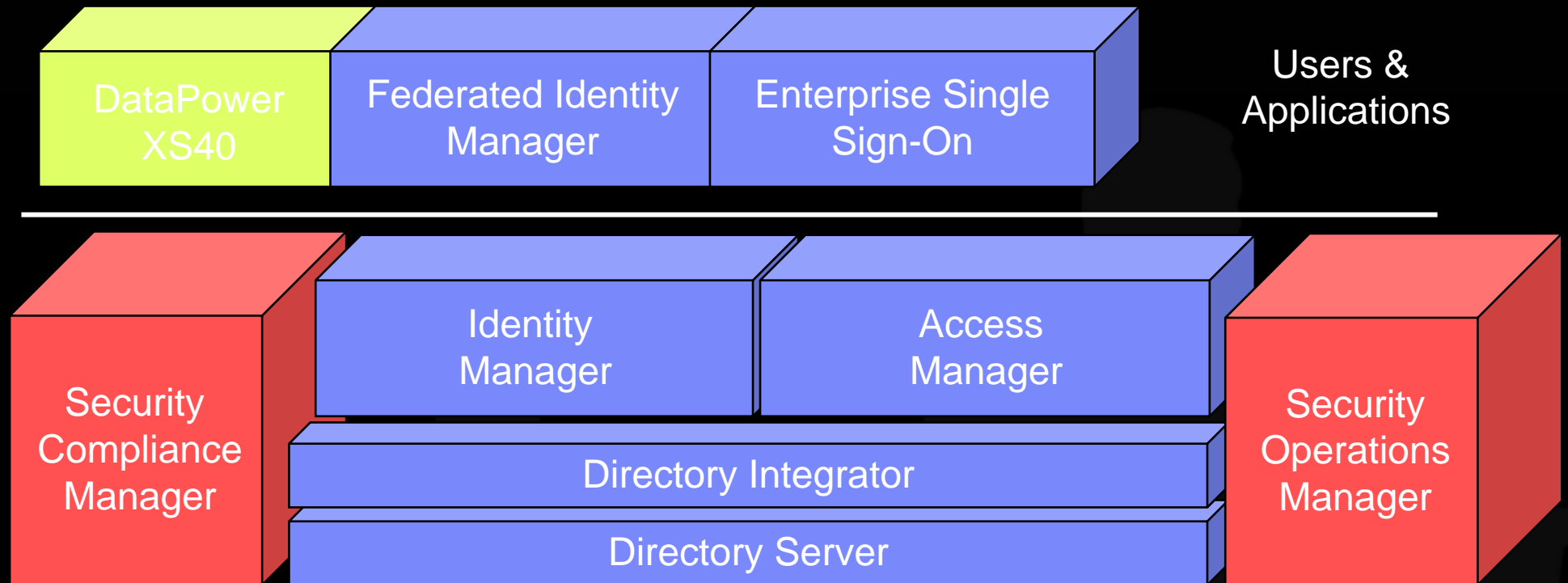An IT **architectural style** that supports integrating your business as linked services

*"SOA is the **heart of the next wave of innovation**. The leaders that do this well are able to **rapidly change** …"*

AMR

*"SOA is critical for … executing the on-demand vision and in preparing … for the **incremental changes** … over time. Companies … make better decisions."*
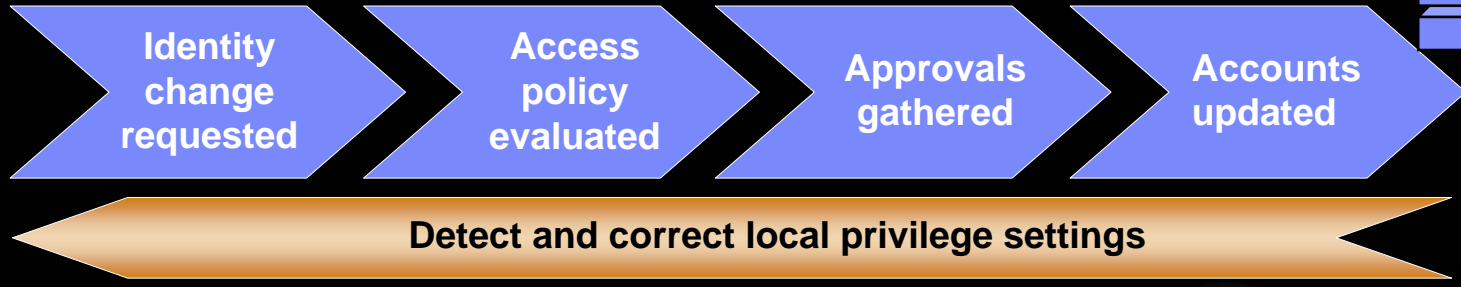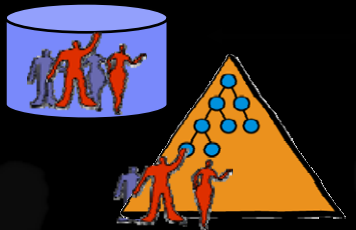
IDC

IBM Tivoli Portfolio for Ensuring Systems Security

DataPower XS40

Federated Identity Manager

Enterprise Single Sign-On

Users & Applications

Security Compliance Manager

Identity Manager

Access Manager

Directory Integrator

Directory Server

Security Operations Manager

Tivoli Identity Manager

Security Event Correlation
Identity | Access | Privacy
Directory
Directory Integration

Identity change requested → **Access policy evaluated** → **Approvals gathered** → **Accounts updated**

Detect and correct local privilege settings

HR Systems

Identity Stores

Tivoli Identity Manager

Workflow Diagram

| Workflow Name | jsong1 |
| Service Type | NT40Profile |

Save | Relayout | Exit

Approval

RFI

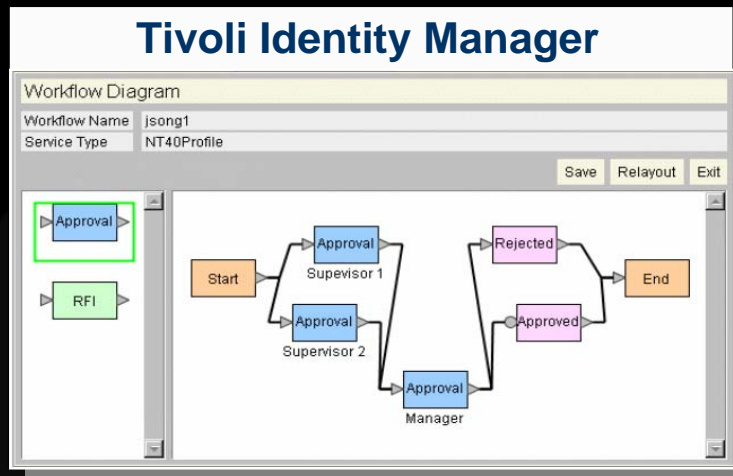Start → Approval Supevisor 1
Approval Supervisor 2
Approval Manager
Rejected
Approved
End

**Industry's most comprehensive list of supported agents, and toolkit to create more**

Operating Systems

Databases

Applications

Tivoli Security Operations Manager

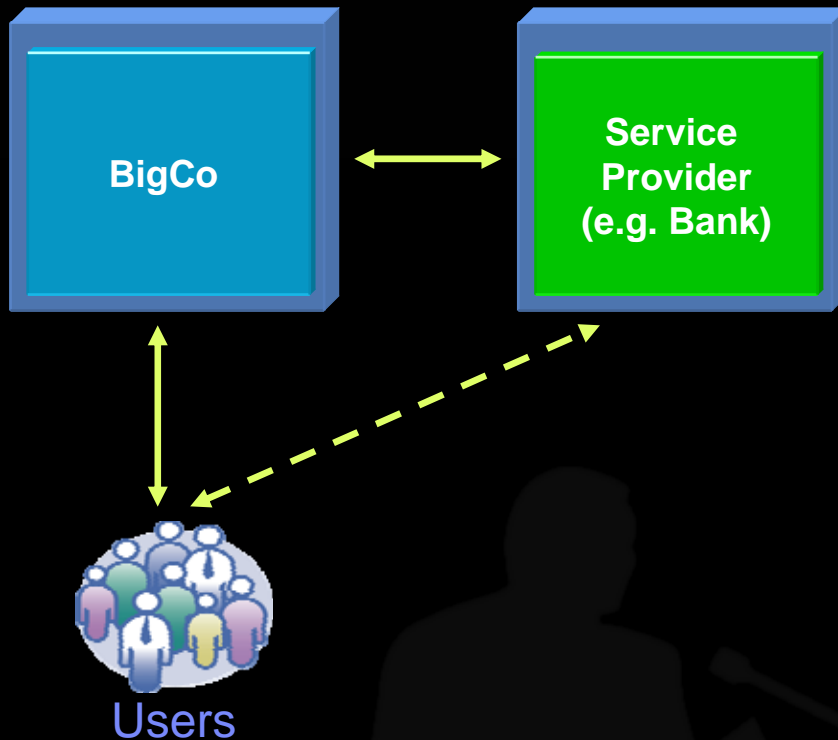*Clearly define and communicate potential security incidents so they can be handled correctly.*

Best practices

- **Develop an IRP that includes classification/severity of potential incidents**

- **Outline escalation procedures for incidents within the IRP**

- **Monitor infrastructure continuously and in real-time to detect potential incidents**

- **Investigate and respond to incidents to mitigate potential problems**

- **Escalate across IT-silos to facilitate incident response and problem resolution**
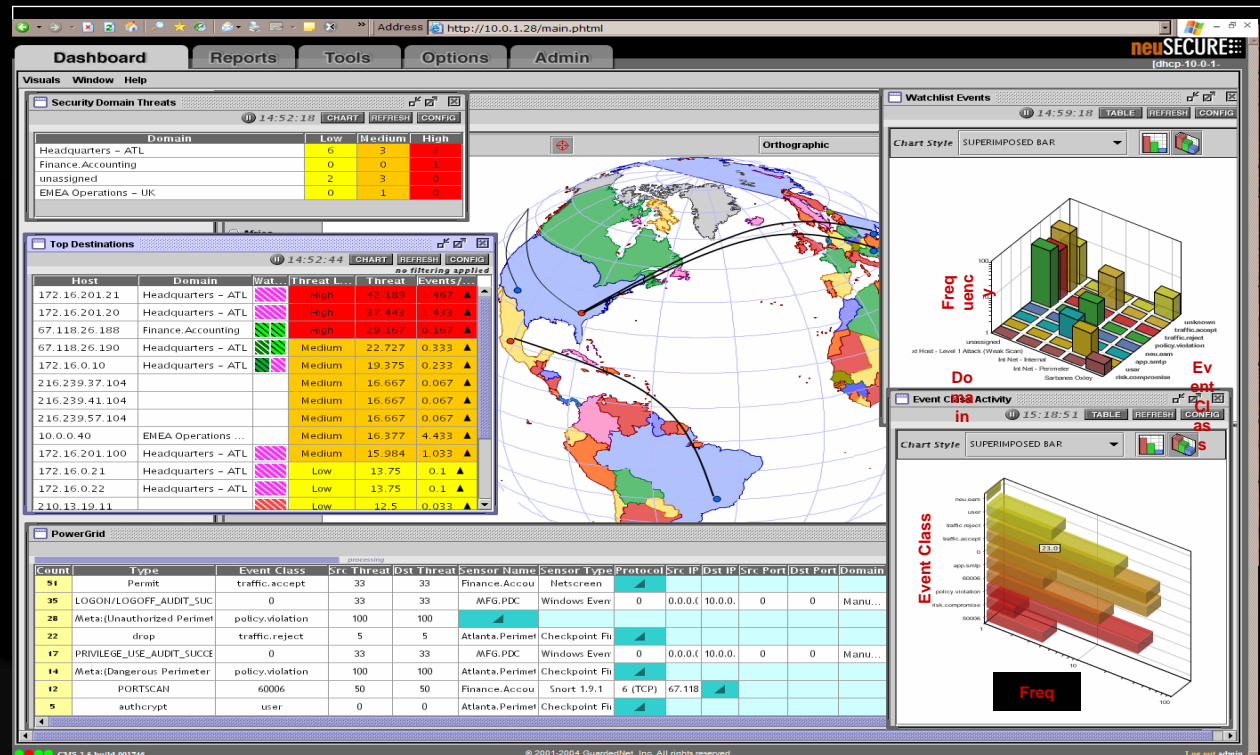
Enables centralized monitoring and analysis of security events and a dashboard from which to investigate potential security incidents.

Federated Identity Manager - Example business scenario – external service provider

BigCo ⟷ **Service Provider (e.g. Bank)**

Users

If you're the Service Provider and you want to win the business, you need to support these protocols

- Employees are given stock options/pension provision managed by a Service Provider (e.g. a bank)

- Employees need to be able to log on to the Service Provider site

- You either give your employees *yet another* User ID and Password…
  - or else you support SAML or Liberty ID-FF or WS-Federation

Service could be:
- HR
- Mobile phone services
- Insurance
- Managing stock options
- Savings/investment

Summary: Benefits of Ensuring Systems Security

- Improve efficiency and reduce costs
  - Productivity enhanced by automating previously manual processes

- Enhance compliance readiness
  - Flexibility to address the growing number of regulations
  - Consistent and more comprehensive approach enhances accuracy and speed of reporting

- Improve effectiveness
  - IT process integration enables a more consistent and comprehensive method for policy management and enforcement

- Reduce risk
  - Better manage who has the ability to change what in your infrastructure
  - Tracking and reporting on authorized and unauthorized activity enables the identification of potential exposures

IBM Identity Management Solutions
Continue to be Recognized for Leadership

- #1 Provisioning and Web SSO Vendor, IDC (August 2005)
- Information Security Names IBM Tivoli to The Influence List for 2003-2008
- 2005 #1 Provisioning Vendor, Gartner Vendor Selection Tool
- 2005 Frost & Sullivan Global Market Leadership Award for Identity Management
- 2004 SYS-CON Best Web Services Security Solution Award
- 2004 Information Security Product-of-the-Year Bronze Award for Authentication and Authorization
- 2003 Frost & Sullivan Market Engineering Leadership Award
- 2003 Crossroads A-List Award for Integrated Identity Management Solution
- 2003 Network Computing Well-Connected Award Finalist
- 2003 SC Magazine Reader Trust Awards – Best General Security Finalist
- 2003 LinuxWorld Product Excellence Award – Best Security Solution Finalist
- 2003 Top WLAN Companies of the Year for Leadership in Wireless Security
- IBM Tivoli Access Manager Sets New Performance Records – Mindcraft Benchmark
- IBM Tivoli Wins Information Security Excellence Award for Second Year in a Row
- 2002 Information World Editor's Choice Award for Security Software