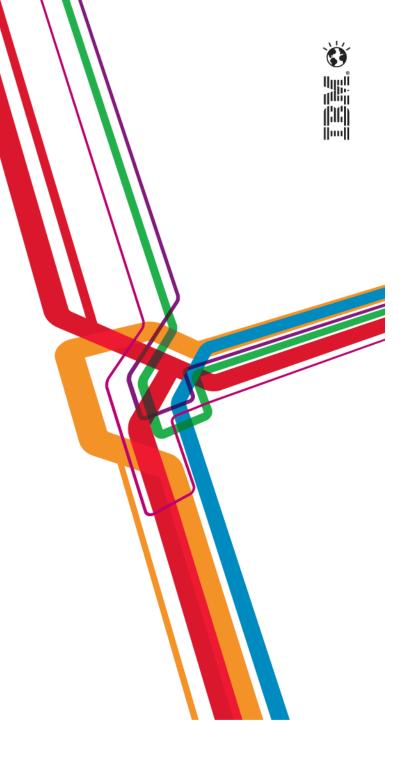


Keith Poyser. Sales Leader: IBM Mobility & End Point.



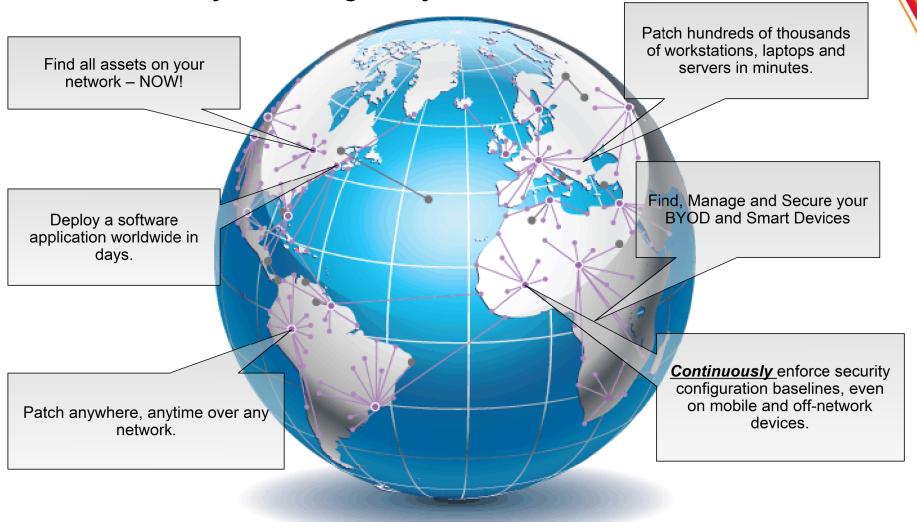
Pulse Comes to You

Optimizing the World's Infrastructure



Visibility is key in a constantly changing, distributed world

Critical systems are globally distributed and in constant flux





End Point Manager: The Power of One







Faster, Smarter Systems Management

- See all endpoints: physical, virtual, fixed, mobile
- Fix issues anywhere in minutes regardless of bandwidth or connectivity
- Deploy in days: any network size, OS, geography
- Save IT time and achieve fast payback



Endpoint management: The Three Cs



Complexity

- Manage Complexity, Simplify and Automate
- Coordination across business processes through the organization
- Heterogeneous endpoints, networks, applications and Os's
- Manage from the datacentre, to the desktop, out to the device.

Compliance

- Ensure Compliance, Reduce Risk
- Security vulnerabilities
- Inaccurate inventory
- Industry regulation compliance and auditing (COBIT, SOX, HIPAA, EMA and more)

Cost

- Reduce TCO & Operational Costs
- Remove manual intervention
- Remove unnecessary configuration diversity
- Improve efficiency



Devices
800,000
470,000
350,000
276,000
241,900
200,000
186,000
181,200
140,000
121,000
110,000
103,000
100,000
100,000



What Does End Point Manager Do?

- Gives IT the visibility, speed, adaptability, control, and precision to do more with less
- Packaged Specific Solution Areas:
 - Systems Lifecycle Management
 - Core Protection & DLP & DC
 - Security & Compliance Management
 - Patch Management (s/alone)
 - Power Management (s/alone)
 - Mobile Device Management
 - Software Use Analysis
- As well as solving unforeseen problems such as.....

DISCOVER IN MINUTES:

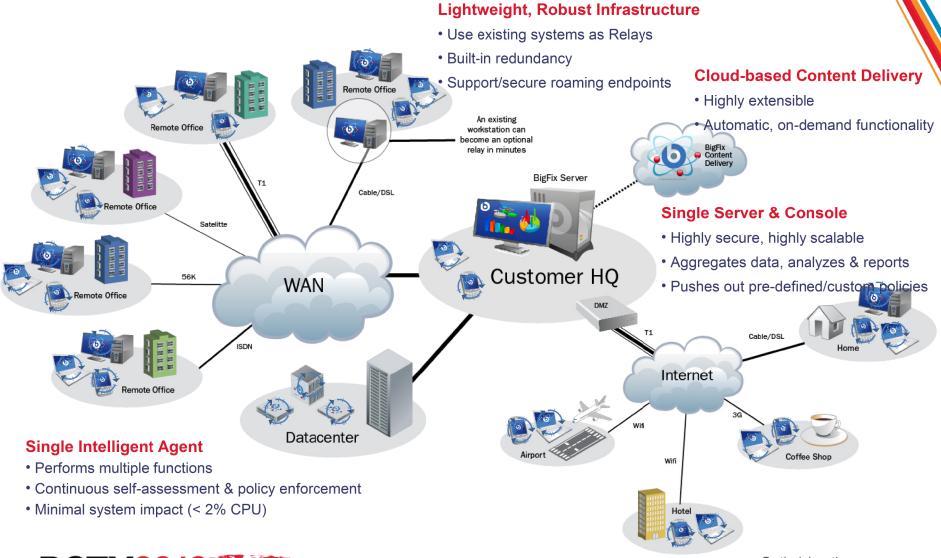
- How many machines are hardware-compatible with Win7?
- Which laptops are affected by a manufacturer's battery recall?
- What software are we paying for vs. what we're using?

RESULTS IN MINUTES:

- Automatically target machines for migration that are hardware-ready
- Precisely manage battery/hw replacements
- Reduce software spend based on accurate usage patterns



End Point Manager: How it Works





Tivoli Endpoint Manager, built on BigFix technology: Converged Capability.

Tivoli Endpoint Manager IT Operations Solutions



Tivoli Endpoint Manager for Lifecycle Management



Tivoli Endpoint
Manager for Mobile
Device Management



Tivoli Endpoint Manager for Patch Management

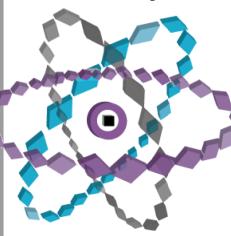


Tivoli Endpoint Manager for Power Management



Tivoli Endpoint
Manager for Software
Use Analysis

Unifying IT operations and security



Tivoli Endpoint Manager IT Security Solutions



Tivoli Endpoint
Manager for Security
and Compliance



Tivoli Endpoint
Manager for Core
Protection



Tivoli Endpoint
Manager for Mobile
Device Management



Tivoli Endpoint Manager for Patch Management



Endpoint Manager Value Across the Enterprise: Relevance

Unified Endpoint Management

Microsoft Windows • Mac OSX • IBM AIX • HP-UX • Solaris • VMWare ESX Server • 7 versions of Linux • iOS • Android • Symbian • Windows Mobile

Mobile Workforce

IT Operations

IT Security and Compliance

Facilities

IT Asset Management

- Enable password policies & device encryption
- Force encrypted backup
- · Disable iCloud sync
- Access to corporate email, apps, VPN, WiFi contingent on policy compliance!
- Selectively wipe corporate data if employee leaves company
- Fully wipe if lost or stolen

- Compress patch cycles to minutes-hours with 98-99% first pass success
- Patch 80+ OS variations and popular 3rd Party Windows applications
- · Software distribution
- OS deployment
- · Remote control
- Server management

- Ensure continuous compliance across all endpoints, regardless of location of network connectivity
- Security configuration baselines
- · Vulnerability assessment
- Network self-quarantine
- Personal firewall
- Multi-vendor anti-malware management
- Endpoint protection

- Reduce annual electricity costs by \$20-\$50 per PC/Mac
- Wake-on-LAN
- Current power usage baselines and savings models
- Attain real-time visibility and control
- Network discovery
- Managed endpoint hardware inventory
- Managed endpoint software inventory
- Software use Analysis to reclaim under used applications
- PC software license compliance analysis

1 console, 1 agent, 1 server, many OSs

AND....

One billion consumers will have smart phones by 2016.

By 2016, 350 million employees will use their smart phones - 200 million will bring their own

Mobile spend will reach \$1.3 trillion as the mobile apps market reaches \$55 billion in

Table and smart phone apps, average price of \$2.43 USD, will grow to \$56 billion in 2012

Business spending on mobile projects will grow 100% by 2015

IT professionals will onslaught the onslaught respond to the budgets budgets by diverting technology by mobile technology



We are Not New to this.....!

Traditional Endpoint Management

Mobile Device Management

- OS provisioning
- Patching
- Power Mgmt
- Anti-Virus Mgmt







- Device inventory
- Security policy mgmt
- Application mgmt
- Device config (VPN/Email/Wifi)
- Encryption mgmt
- Roaming device support
- Integration with internal systems
- Scalable/Secure solution
- Easy-to-deploy
- Multiple OS support
- Consolidated infrastructure

- Device Wipe
- Location info
- Jailbreak/Root detection
- Enterprise App store
 Self-service portal













Benefits of an Endpoint Manager based Approach to Mobile Device Management

- "Organizations...would prefer to use the same tools across PCs, tablets and smartphones, because it's increasingly the same people who support those device types"
 - Gartner, PCCLM Magic Quadrant, January 2011
- Although at some level mobile is unique, the devices are just another form of endpoints in your infrastructure. This means whichever technologies you procure should have a road map for integration into your broader endpoint protection strategy.
 - Forrester, Market Overview: Mobile Security, Q4, 2011

Reduces Hardware & Administration Costs

- "Single pane" for mobile devices, laptops, desktops, and servers
- Single Endpoint Manager Server scales to 250,000+ devices
- Unified infrastructure/administration model reduces FTE requirements

Fast Time-to-Value

- Enterprise-grade APIs enable integration with service desks, CMDBs, etc (Integrated Service Management)
- Cloud-based content delivery model allows for rapid updates with no software upgrade or installation required



Mobile Devices Create New IT Challenges

Mobile devices magnify existing challenges and also pose unique ones that significantly disrupt traditional management paradigms.

Traditional Mgmt Model	New Device Mgmt Paradigm
Enterprises provide all equipment	Employees bring personal devices (BYOD)
Small set of supported platforms / models	Many different manufacturers / models
IT initiates and manages upgrades	OS/app upgrades managed by carriers, OEMs, users
IT tightly controls apps and security	Users control their own devices

Options for IT departments

Don't allow mobile devices because they are too hard to manage 💥



Allow unmanaged and insecure mobile devices 💥



Invest in tools to secure and manage devices

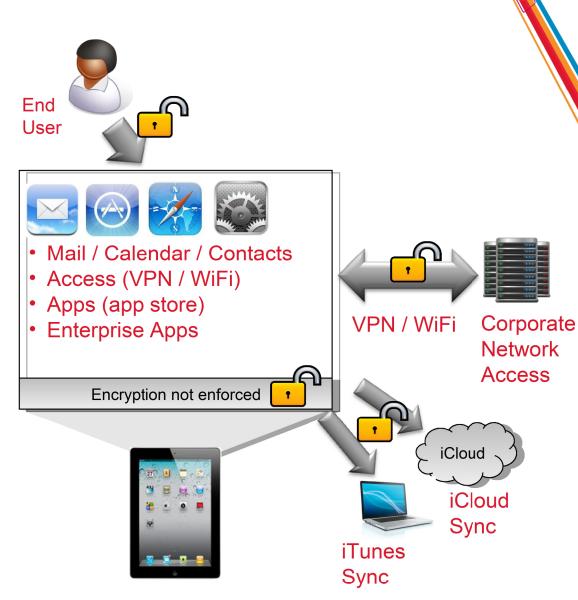




Managing Mobile Devices – The Problem

Security & Management Challenges

- Potential unauthorized access (lost, stolen)
- Disabled encryption
- Insecure devices connecting to network
- Corporate data leakage





End Point Manager: MDM Functionality: Same Tech

Category	Endpoint Manager Capabilities
Platform Support	Apple iOS, Google Android, Nokia Symbian, Windows Phone, Windows Mobile
Management Actions	Selective wipe, full wipe, deny email access, remote lock, user notification, clear passcode
Application Management	Application inventory, enterprise app store, whitelisting, blacklisting, Apple Volume Purchase Program (VPP)
Policy & Security Management	Password policies, device encryption, jailbreak & root detection
Location Services	Track devices and locate on map
Enterprise Access Management	Configuration of Email, VPN, Wi-fi
Expense Management	Enable/disable voice and data roaming



End Point Manager Patch Management

TEM Patch Management is a comprehensive solution for delivering Microsoft, UNIX, Linux, and Mac patches, as well as third-party application patches, through a single console.

Features and Benefits

- Patch capabilities for multiple platforms: Windows, Linux, UNIX, Mac
- Coverage for a variety of software vendors, such as Adobe, Mozilla, RealNetworks, Apple, and Java
- Real-time reporting that provides information on which patches were deployed, when they were deployed, who deployed them, and to which endpoints
- Scalability—manage more than 250,000 endpoints from a single server
- No loss of functionality over low-bandwidth or globally distributed networks. Compression of patch cycle!







End Point Manager Security & Compliance Management

Comprehensive solution for end-to-end security and compliance management which includes:

- Asset Discovery
- Patch Management
- Security Configuration Management
- Vulnerability Management

Features and Benefits

- Continuous enforcement of security policies, regardless of network connection status
- Host-based vulnerability assessment with severity scoring and a 99.9% accuracy rate
- Define and assess client compliance to security configuration baselines
- SCAP certified for FDCC, EAL-3 and more.
- Heterogeneous platform support: Windows, UNIX, Linux, and Macintosh





BigFix / TEM Core Protection

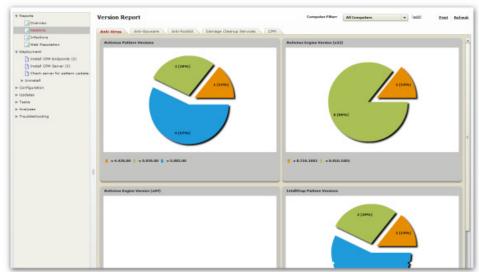
IntegratedCore Protection modules include:

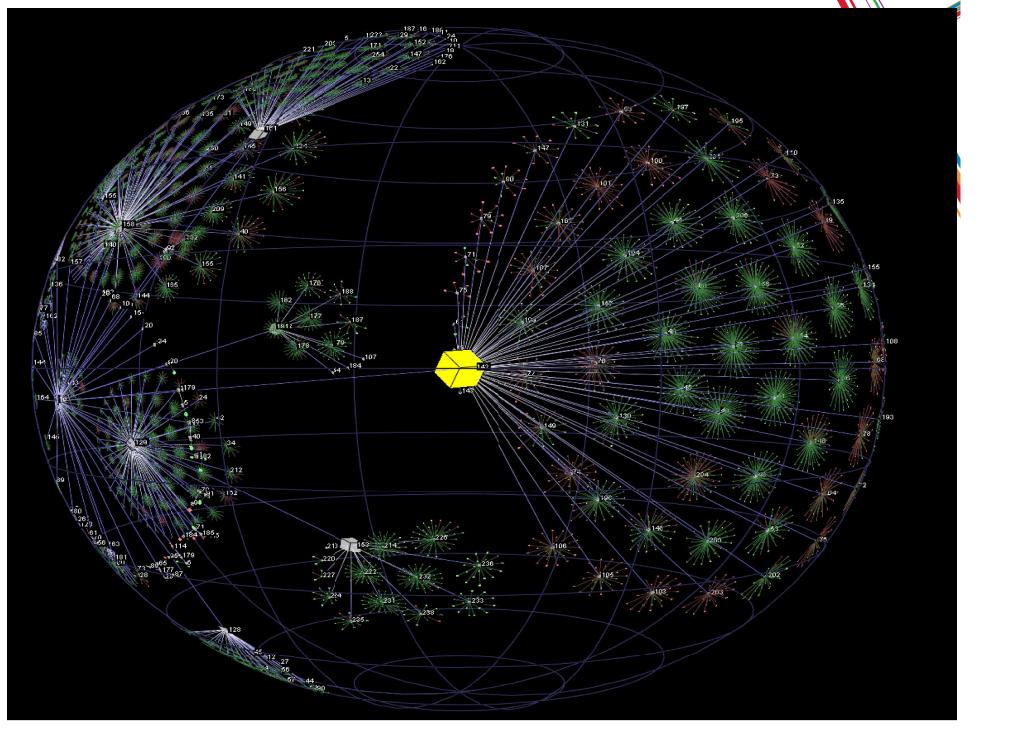
- Anti-Virus
- Anti-Malware
- Endpoint Firewall
- Web Protection
- Client Manager for Endpoint Protection
- Network Access Control (NAC)

Features and Benefits

- Prevent infection, identity theft,
 data loss, network downtime, lost productivity, and compliance violations
- Eliminate security gaps with real-time threat intelligence
- Achieve unparalleled visibility into complete enterprise protection
- Combine endpoint protection, security configuration, compliance, patch, DLP, DC....etc.

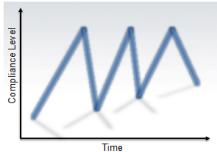






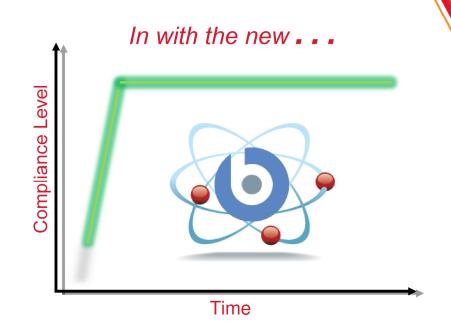
Compliance: DataCenter to Desktop to Device Raise the bar and manage the right way!

Out with the old...



Continuous Compliance with BigFix

- Initial low-cost hit to get compliant
- Continuous assessment, identify noncompliance within minutes
- Enforce compliance with minimal effort
- Overall reduced cost to maintain compliance and security.





Endpoint Manager Value: Drives Down Cost and Complexity

istributed architecture matches today's enterprise

andwidth Throttling for low bandwidth networks

ffective mobile and remote computer management

lazing Speed

00x faster than competing solutions

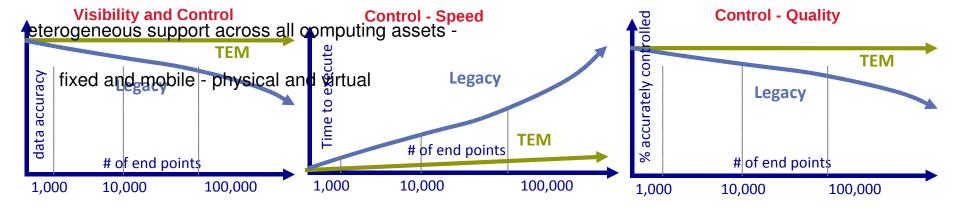
Massive Scalability

Manage thousands to hundreds of thousands

Extreme Productivity

- 1 FTE performing the task of a dozen Revolutionary Economics
- Proven ROI and the Lowest TCO

ervasive Visibility and Control

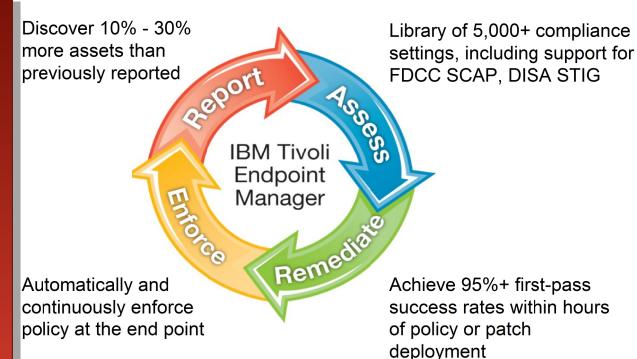




Tivoli Endpoint Manager: Security and Compliance across all Devices

See More, Secure More; Real Time Value. DC, to Desk, to Device

- Patch Management
- Security Config Mgmt
- Vulnerability Mgmt
- Asset Mgmt
- Network Self-Quarantine
- Multi-Vendor Endpoint Protection Mgmt
- Anti-Malware & Web Reputation Service, D.C and DLP.
- Software Distribution
- O.S Distribution
- Mobile Device Management















- Customer since 2007
- Protecting 240,000 WW endpoints
- Deal size \$2.65M

Business Problem

- Lacked automation and real-time analysis of compliance findings resulting in weeks of manual, labor - intensive procedures to collect and correlate scan data.
- Lacked the ability to automatically remediate and validate issues Identified during vulnerability assessments.
- Lacked ability to protect "non-connected" endpoints heightened by new & potential acquisitions in emerging markets.

Competition:

Microsoft, HP, BMC



What they bought: - IBM Tivoli Endpoint Manager for Lifecycle Management

Why they bought it:

- Our rapid deployment and no additional infrastructure elements required.
- Flexibility and coverage on multiple operating systems and 3rd party applications.
- We could implement a solution in one week across 240,000 endpoints.
- Achieve automated, continuous compliance by leveraging common security checklists DISA STIG, FDCC, SANS Top 20, etc.
- Audit procedures have improved dramatically with hourly reporting verses weekly or monthly.
- Issues are identified in real-time and remediation tasks are executed automatically increasing efficiency and quickly closing critical gaps of exposure







- Customer since 2006
- Protecting 420,000 endpoints
- Deal size \$9.3M

Business Problem:

 Could not reach all of their enterprise machines within the acceptable time frame to maintain required security levels.

Competition:

Microsoft SCCM & Patchlink



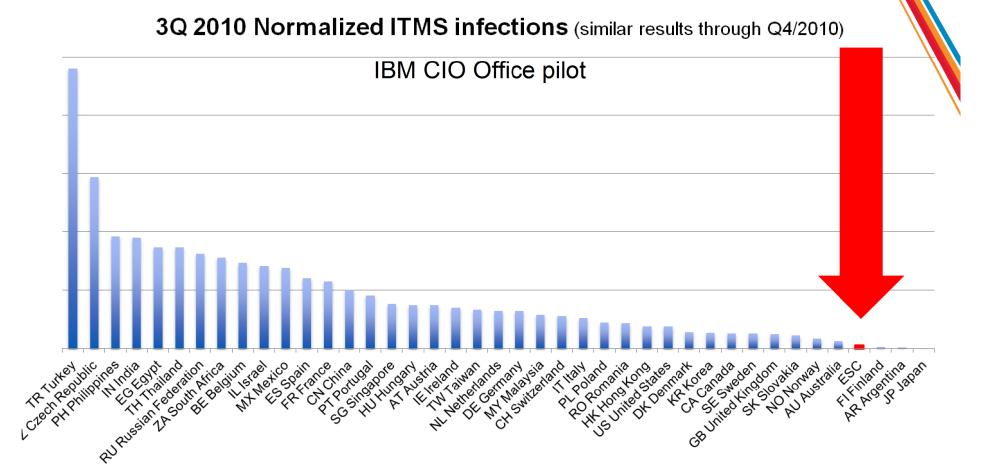
What they bought: IBM Tivoli Endpoint Manager for Security and Compliance

Why they bought it:

- Demonstrated ability to rapidly identify, isolate and mitigate malware attacks.
- Patched 7,000 "un-reachable" machines in less then 1 hour.
- Confirmed in testing to be the only solution that could be deployed in one week ensuring the VA was protected.



Tivoli Endpoint Manager in IBM Globally



Normalized: ITMS detected malware per country divided by number of employees per country



IBM Pilot Production results

BAU	BigFix
Patch availability typically 3-14+ days	Patch availability within 24 hours
92% compliance within 5 days (ACPM only)	98% within 24 hours
EZUpdate sometimes misses application of patches on required machines	Detected about 35% of participants missing at least one previous patch
Compliance model, completely reliant on user	90% of Windows requirements can be automatically remediated
Exceptions at machine level	Exceptions at setting level





Thank You! keith.poyser@uk.ibm.com +44 7711773878



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