















Poll Question #1





Mobile Device Management Agenda

Trends & Challenges

Building a Mobility Device Management strategy

Specific Elements of MDM

- Vendor Assessment
- Looking Forward
- More Information







Mobility Trends Device Evolution









2004



2010





2007

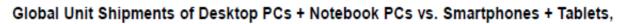


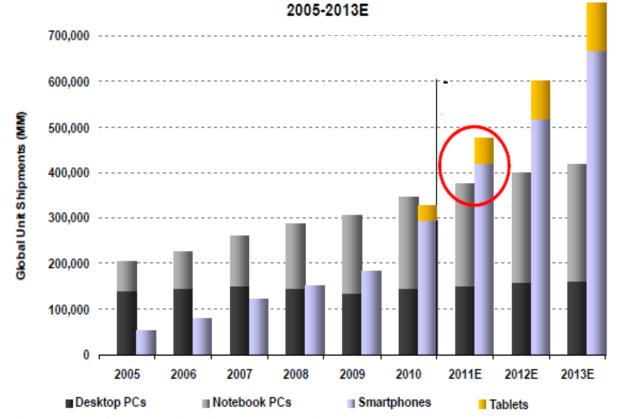






Shifting to Mobile Devices





Note: Notebook PCs Include Netbooks. Source: Katy Huberty, Ehud Gelblum, Morgan Stanley Research. Data and Estimates as of 2/11 "It's arguable that smartphone capability has evolved faster than any other technology over the past five years."

"As smartphones continue to develop, it will become possible to use them as primary work devices."

Forrester's Mobility Powers The Next Growth for Unified Communications 2010





Poll Question #2







"Enterprises will buy 50x as many tablets in 2011."

- Canalys Market Research

"Can I connect my to the network?"

> "Can we get ____ the classroom?"

"I want one!"







Consumer to Enterprise

symbian

Apple





RIM (Blackberry)



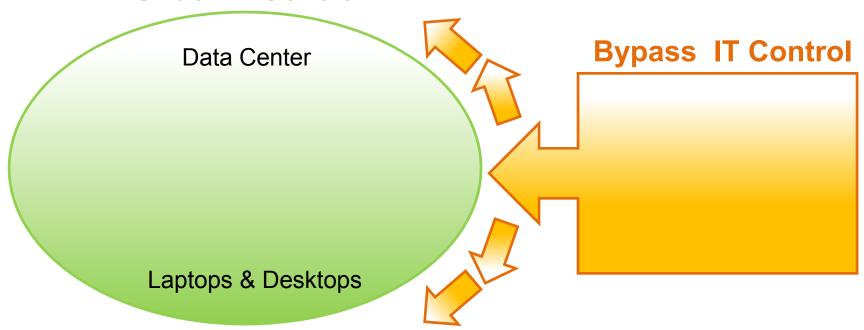


Mobile Device Management: Challenges

- 1. Costs
- 2. Usability
- 3. Maintenance

- Management is not centralized
- Don't have dedicated people or policies to manage devices
- Your current software does not manage mobile devices

Under IT Control



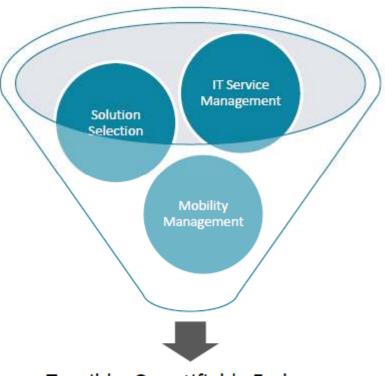




Building your MDM Strategy

- A holistic mobility strategy:
 - It must encompass both
 Organizational needs and IT requirements
 - Analysis of the total cost of ownership
 - Strategic plan for managing both the devices and their applications

www.strategyanalytics.com (p4 - diagram)



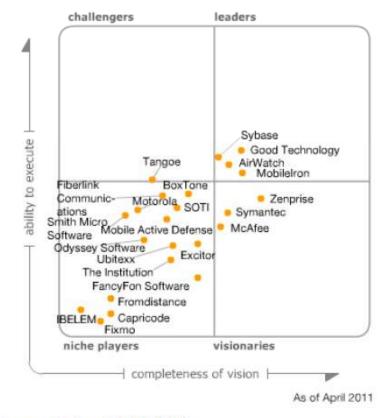
Tangible, Quantifiable End-user Value from Business Mobility





Vendor Assessment

Figure 1. Magic Quadrant for Mobile Device Management Software



Source: Gartner (April 2011)

- MDM Solutions address and support each platform differently
- Does solution manage multiple device types?
 - Android support is still maturing
 - Blackberry support still needed
- Are Reporting tools included?
- What is the solution key management focus?





Vendor Assessment

Viability and Longevity of Vendor

Configuration Complexity

Learning Curve







Elements of MDM

Security Management

Software Distribution

Policy Management

Inventory Management

Service Management

Classroom Management

* It takes multiple types of software to address a full solution





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Security Management

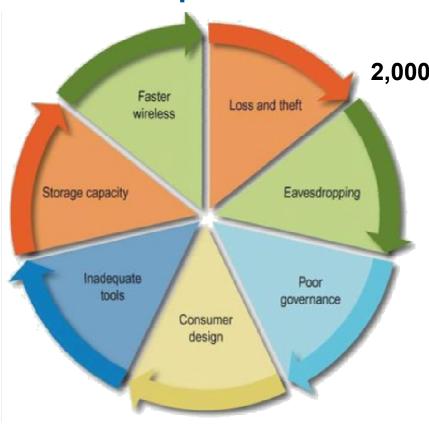
Device security, authentication and encryption.

Do you need to?		
Real-time protection updated automatically	Scans files received over all network connections	
Full control of alerts/logging	Default (high/low) filtering options + customizable	
Blacklist filtering (voice/SMS)	Remote alarm/notification and SIM change notification	
Automatic denial for unknown or unwanted calls	GPS Locate/Track and Device Backup/Restore	
Application inventory and removal	View call log, photos, address book and contacts	
Monitor SMS, MMS, email message content	On-demand scans of all memory	
Alerts on detection	Automatic Inbound/Outbound Port+IP Filtering	





Enterprise Risks from Smartphones



2,000,000 smartphones stolen in US in 2008

Out of smartphone users,

- •80% store personal information
- •40% do not have a basic password

HashTag: dni_mdm

- •25% store bank account details
- •10% store credit card info

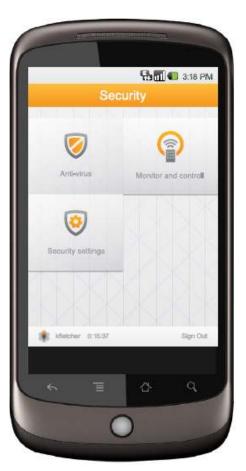
Source: "Smartphone Security: A Modern Day Pandora's Box" – Burton Group, Dec 2009





Mobile Security Management

- Device Management
 - Antivirus, Firewall & Anti-Spam
 - Loss/Theft Protection
- Content Control
 - Blocking & Filtering with reporting
 - Supported without VPN / Cloud-based for remote users
 - Integrates with search engines, Active
 Directory, LDAP and Open Directory
- Access Control
 - Role-based capabilities
 - Integration to Remote Access/VPN



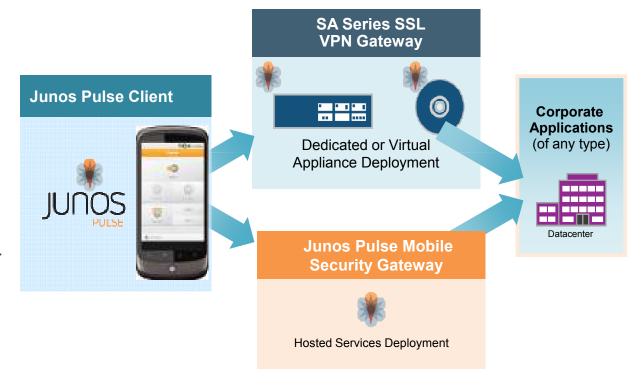




Security Management

Example: Junos Pulse

- Range of app access requirements
- "Data in Transit" Security
- Enterprise-user app portal
- Dynamic role-based app menu
- Provisioned via app stores
- Designed for minimal user interaction
- Autoboot upon device restart







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* It takes multiple types of software to address a full solution





Software Distribution

Deploy, install, update, delete or block.

Do you need to?		
Secure Distribution and update of in-house apps	Recommended App Store apps	
Access control for distributed in-house apps	Control unapproved apps	
Inventory of installed apps	Reporting on software distribution and versioning	
Rogue app protection	Internal App Store *	
Mandated presence of mission-critical apps	Track installed apps	



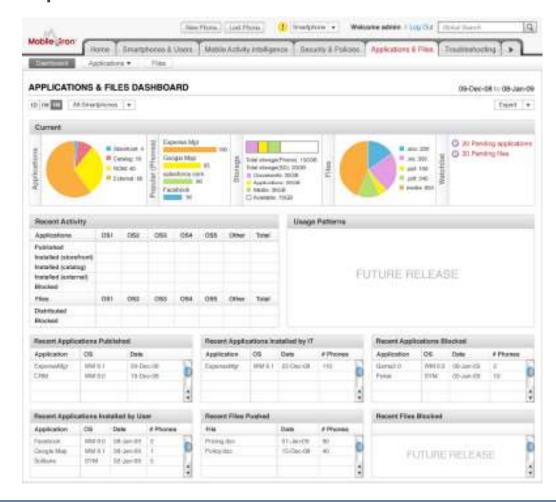




Software Distribution

Example: Mobile Iron

- Applications:
 - Published
 - Installed
 - Blocked
- Files:
 - Distributed
 - Blocked
- Recent Apps:
 - Blocked
 - Installed by User
 - Installed by IT







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Policy Management

Development, control and operations of enterprise mobile policy

Do you need to?		
Require Passcode	Number of failed attempts before wipe	
Maximum passcode age	Allowable Applications enforcement	
Password complexity requirements	Browser security preferences	
Number of unique passcodes before reuse	Automatic sync of mail account when roaming	
Grace period for device lock	Allow/Disallow Application installs	
Time before auto-lock	Data Roaming setting (on/off)	

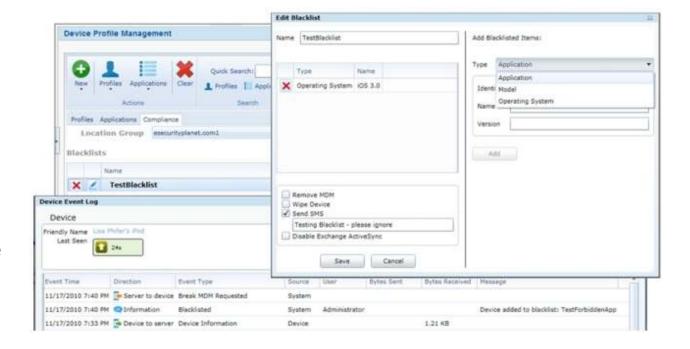




Policy Management

Example: Air Watch

- Apps Blacklist
- Model Blacklist
- Operating System Blacklist
- Remove MCM
- Wipe Device
- Send SMS
- Disable Exchange ActiveSync







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Inventory Management

Tracking, Reporting, Dashboards, Analysis

Do you need to?		
Detailed reporting of asset information	Serial Numbers	
Model Name and Number	Capacity and Space Available	
OS Version	Firmware Version	
Device Name	Battery Status	
Unique Device Identifier	IP Address	

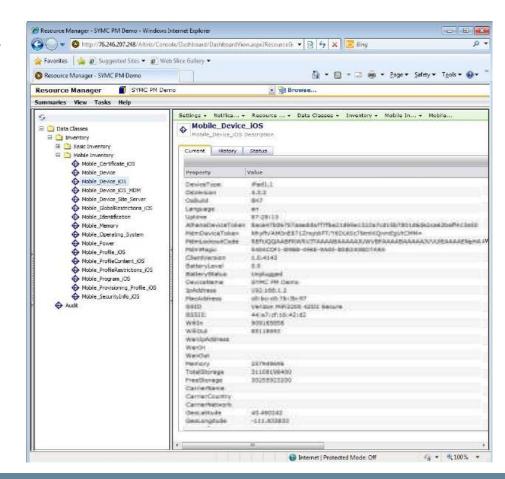




Inventory Management

Example: Symantec Mobile Management

- Unique Device Identifier (UDID)
- Device Name
- iOS and build version
- Model name and number
- Serial number
- Capacity and space available
- Firmware version







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Service Management

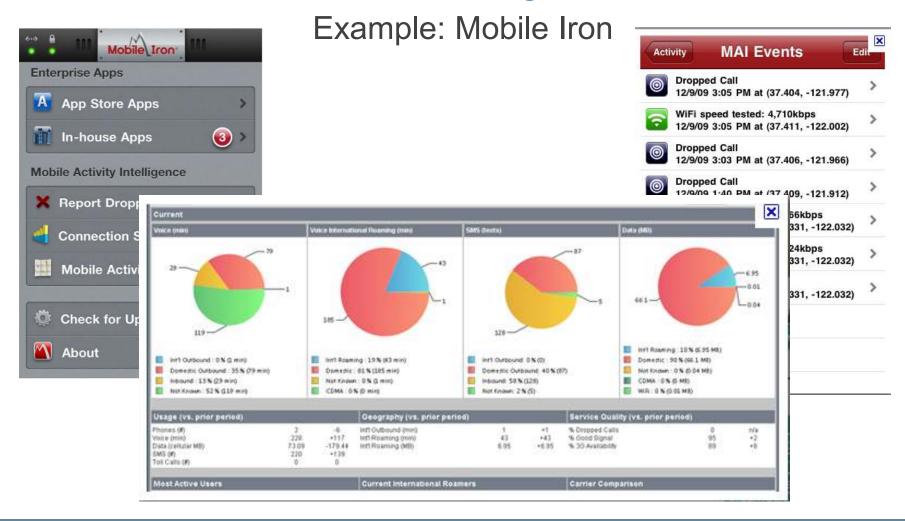
Provider Service Monitoring and Analysis

Do you need to?		
Proactive monitoring of outages	Roaming Usage	
Monitoring of dropped calls	SMS (Text) Usage	
WiFi Speed	Report most Active Users	
Cell Data Speed	Report Data Used	
GPS Location mapping	Carrier Comparison	





Service Management







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Classroom Management

Student/Teacher devices in a learning environment.

Do you need to?		
Chat with Student	Limit Web Browsing	
Assess Student Progress with True/False and Multiple-Choice Questions	Real-Time results and announcements	
Ability for Student to vote on things	Send Students a message	
Assess Student Progress with True/False and Multiple-Choice Questions	Monitor Battery Level	
Limit Applications	Monitor Students** (GitHub – iOS Streaminb Browser)	



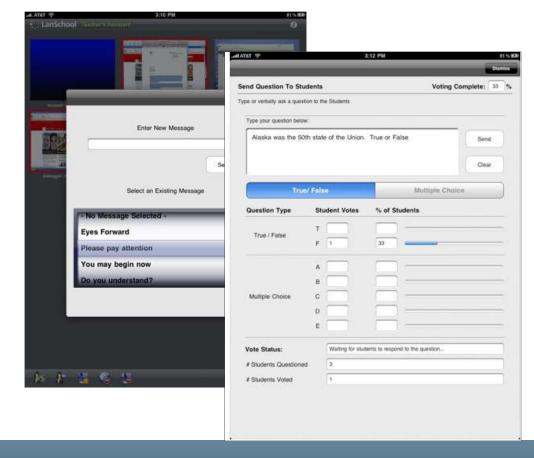


Classroom Management

Example: LANSchool

- Send Student a Message
- Chat with Student
- True/False and Multiple Choice Questions
- Ability for Student to vote









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Classroom Management

Example: github

iOS Streaming Browser

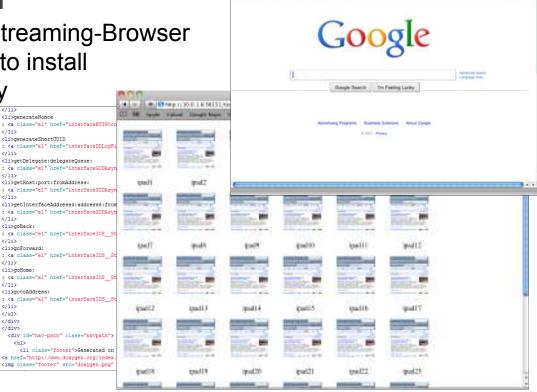
https://github.com/rubelw/IOS-Streaming-Browser

Must be comfortable with Code to install

Monitor Student Browser Activity

Application—level filtering





HashTag: dni_mdm

★ Mtp://10.0.1.6.36151/





Classroom/Meeting Management

Example: Conference Pad

- For iPad
- Display a PDF with up to 15 devices
- Devices sync to page turning, pinch to zoom, "laser pointer"
- BlueTooth and WiFi support
- Send files via app or iTunes File Sharing
- Support for external screens

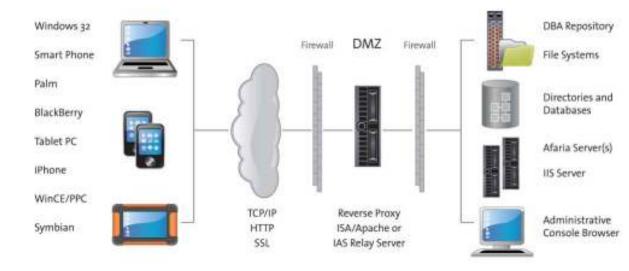








Device Management Many Features more Generic



Example: Sybase

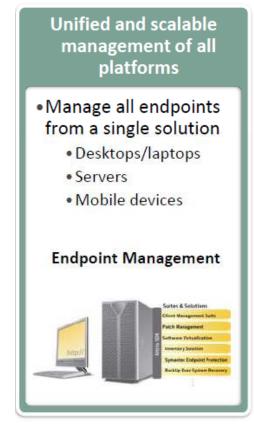






Device Management Many Features more Generic

Example: Symantec











Next Steps

- Figure out what you need/your purpose
- How do you want to use them
- What features you want make a list
- Be aware of your environment
- Understand pros & cons
- Think 'Big Picture'





More Information

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