JUNOS PULSE MOBILE SECURITY SUITE

Stallion Winter Seminar 11.3.2011
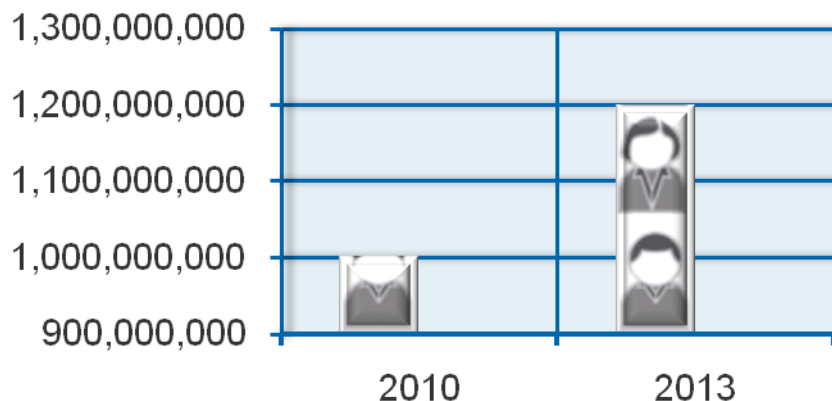
Jukka Piirainen & Jani Ripatti
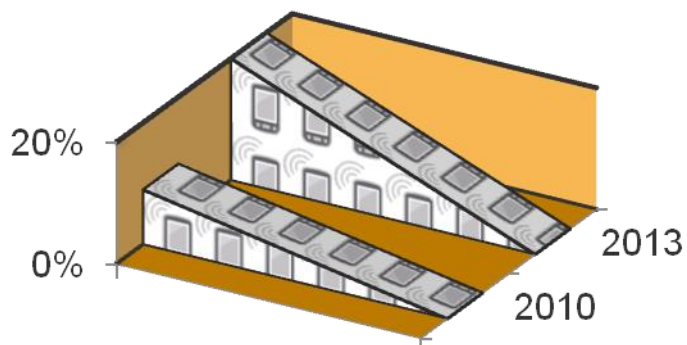
JUNOS PULSE MOBILE SOLUTION
FOR ENTERPRISES

MORE MOBILE USERS, MORE PORTABLE DEVICES FOR CORPORATE ACCESS
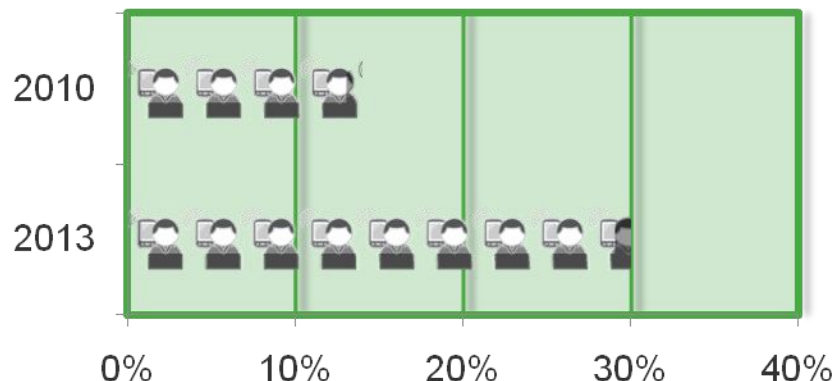
EXPLOSIVE GROWTH IN MOBILITY

World's mobile worker population to surpass *1B people* in 2010 and grow to *> 1/3* of world's workforce by 2013*
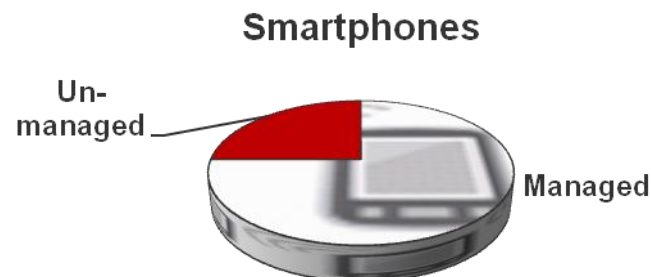

By 2012, smartphone penetration to roughly *double* globally (~9% to 20%)*

Information Workers' Smartphone Usage

14% of information workers use smartphones in 2010 to access data; expected to reach *30%* by 2013**

Smartphones

About *1/4 of employees* use smartphones that are not "corporate-standard" or managed*

*Forrester Research; ** IDC

FUNDAMENTAL CHANGE IN MOBILE SECURITY
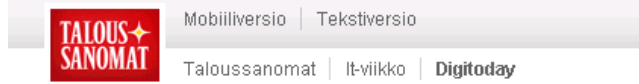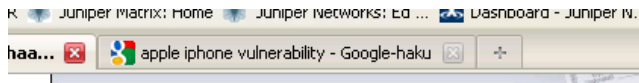
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Smartphones have become computers

Threat vectors are at the device, application and network level

Threat landscape has evolved from SMS based attacks

NetworkWorld — 13 Jan 2010
MOBILE MALWARE WILL TEST ANDROID AND IPHONE

SMARTPHONE — 12.23.09
MALICIOUS APPS FOUND IN GOOGLE'S ANDROID ONLINE STORE

May 05, 2009
STUDY FINDS EMPLOYEES EXPECT MOBILE ACCESS TO ENTERPRISE APPLICATIONS

SECURITY — 09/12/09
ANDROID SECURITY CHIEF: MOBILE-PHONE ATTACKS COMING

NETWORLD WOLRD — 12.23.09
SMARTPHONE ATTACKS, ROGUE ANTIVIRUS, CLOUD BREACHES TOP 2010 SECURITY CONCERNS

JUNIPER NETWORKS

RECENT INCIDENTS

Source: Digitotaday.fi, March 3 & 11, 2011

USERS AND MOBILE DEVICES

- Approximately 2 million smartphones were stolen in the US in 2008[1]

- 80% of mobile device owners store personal information on their handset[1]

- 40% of users who store credit card information on their handset do not have a basic password on the device to limit entry[1]

- 24% of smartphone users store bank account details on their device, 10% store credit card information[1]

[1] Credant Technologies

JUNOS PULSE MOBILE SOLUTION

Junos Pulse Client

SA Series SSL VPN Gateway

Dedicated or Virtual Appliance Deployment

Junos Pulse Mobile Security Gateway

Hosted Services Deployment

Corporate Applications (of any type)

Datacenter
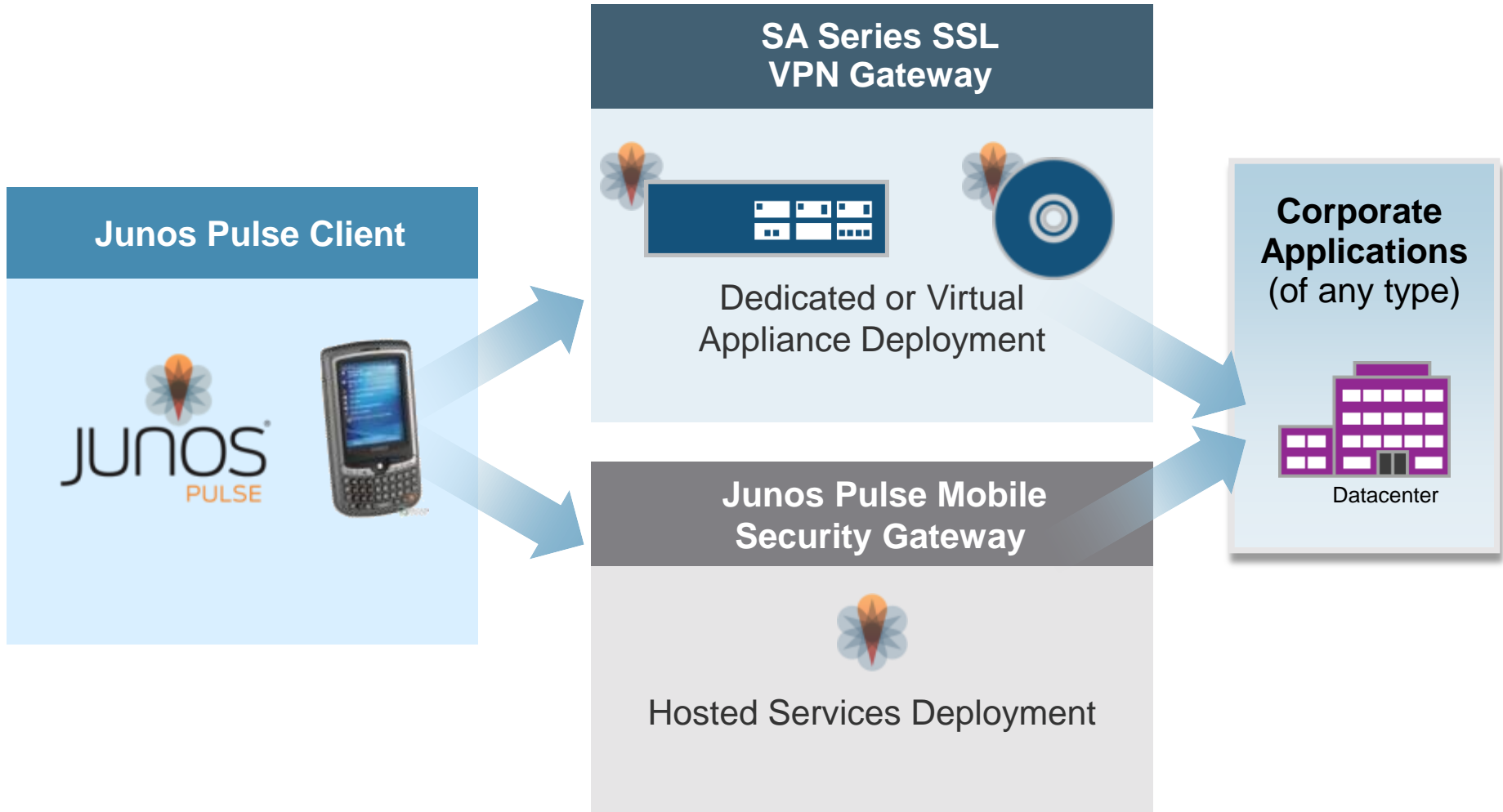
JUNOS PULSE MOBILE SECURITY SUITE

Comprehensive Smartphone Device Management and Security Solution

- Antivirus
- Firewall
- Anti-Spam
- Loss/Theft Protection
- Device Monitoring/Control

Sold with SA Series SSL VPN or as standalone

Requires Junos Pulse Mobile Security Gateway

- Secure, hosted deployment
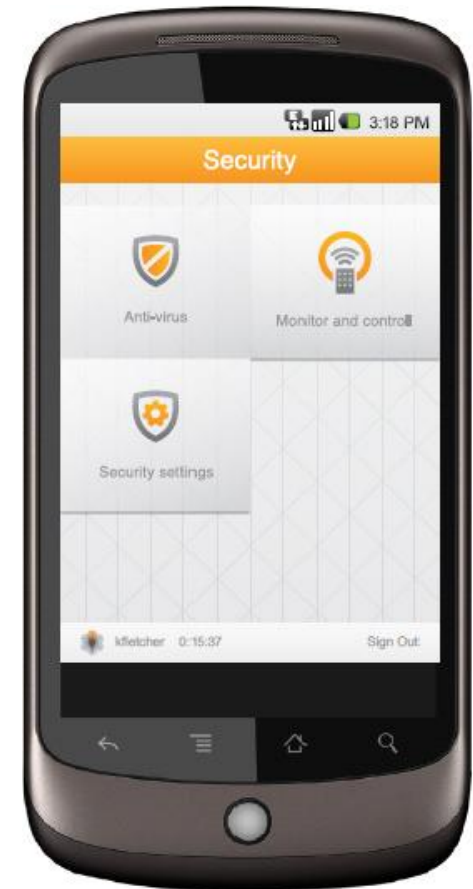
JUNOS PULSE MOBILE SECURITY SUITE ANTIVIRUS

Features

- Real-time protection, automatically updated OTA
- Scans files received over all network connections
  - SMS, MMS, email, direct download, Bluetooth, infrared, etc.
- On-demand scans of all memory (internal, memory cards) or full device
- Alerts upon detection
- Full logging of scans and deletion

Supported on:

- Microsoft Windows Mobile 6.x
- Nokia Symbian S60 3rd & 5th editions
- Google Android v2.x
- BlackBerry 4.2 or greater

Note: iPhone APIs do not allow as yet

JUNOS PULSE MOBILE SECURITY SUITE PERSONAL FIREWALL

Features

- Inbound/Outbound Port+IP Filtering
- Full control of alerts/logging
- Default (high/low) filtering options + customizable

Supported on:

- Microsoft Windows Mobile 6.x
- Nokia Symbian S60 3rd & 5th editions

Note: iPhone, Blackberry and Android APIs do not allow personal firewall as yet

JUNOS PULSE MOBILE SECURITY SUITE ANTI-SPAM

Features

- Blocks voice and SMS spam (blacklist filtering)
  - Block calls, messages or both
  - Automatic addition of contacts to blacklist
- Message settings—save to Inbox, save to "spam" folder or delete
- Option to disable alerts for incoming messages
- Automatic denial for unknown or unwanted calls
- Full logging of blocked calls

Supported on:

- Microsoft Windows Mobile 6.x
- Nokia Symbian S60 3rd & 5th editions

Note: iPhone APIs do not allow as yet

JUNOS PULSE MOBILE SECURITY SUITE LOSS/THEFT PROTECTION

Features

- Remote Lock and/or Wipe
- GPS Locate/Track
- Device Backup/Restore
- Remote Alarm/Notification
- SIM Change Notification

Supported Platforms

- Microsoft Windows Mobile 6.x
- Google Android 2.x
- BlackBerry 4.5 and above
- Nokia Symbian S60

GPS Report

Handset Identification	GPS Type	Latitude	Longitude	Posted Datetime	Map It
IMEI: 352829020191884 IMSI: 310410263443134 DID: D487EC146D2284E23FE51F6D4884CE538EB13E2A MSISD: 16149064283	gps	39.98782638	-82.8874068	2009-11-02 15:30:06	
IMEI: 352829020191884 IMSI: 310410263443134 DID: D487EC146D2284E23FE51F6D4884CE538EB13E2A MSISD: 16149064283	gps	39.9880115	-82.8874778	2009-11-02 15:00:03	

JUNOS PULSE MOBILE SECURITY SUITE DEVICE MONITORING AND CONTROL

Features

- Application inventory and removal
- Monitor SMS, MMS, email message content
- View phone call log and address book/contacts
- View photos stored on device
- Remote device configuration
  - Send commands, update handset profile, delete account, update user account, etc.

Supported Platforms

- Microsoft Windows Mobile 6.x
- Nokia Symbian S60 3rd & 5th editions
- Google Android 2.x
- BlackBerry 4.5 and above

App Revocation List

Application Name
Adobe FlashLite
Adobe PDF
Backup And Restore
BfToggleApp
Conference call
DevEncStarter
Dictionary
Download!
Encryption
Firewall
GPX

JUNOS PULSE ENTERPRISE SOLUTION FOR MOBILE DEVICES

	BlackBerry 4.2*	Windows Mobile 6.x*	Symbian S60 3rd & 5th ed*	Google Android v2.x*	iPhone/ iOS 4.1
VPN with Juniper SA gateway	L3 VPN proprietary to BlackBerry	Y	Y	Y (for email and web access)	Y
Antivirus	Y	Y	Y	Y	Not possible due to OS restrictions
Personal Firewall	Not possible due to OS restrictions	Y	Y	Not possible due to OS restrictions	Not possible due to OS restrictions
Anti-Spam	Roadmap	Y	Y	Roadmap	Not possible due to OS restrictions
Monitor and Control	Y	Y	Y	Y	Roadmap
Backup and Restore	Y	Y	Y	Y	Roadmap
Loss/Theft Protection	Y	Y	Y	Y	Roadmap

* Junos Pulse for Google Android and Junos Pulse for BlackBerry will be available in late October 2010. Junos Pulse for Nokia Symbian will be available in late November 2010. Junos Pulse for Windows Mobile will be available in late December 2010.

everywhere