JUNIPER NETWORKS

JUNOS PULSE

SECURE ACCESS FOR LOCAL, REMOTE AND MOBILE USERS

TUESDAY, 20 SEPTEMBER 2011

AGENDA

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SECURITY IS IMPACTED BY TWO TRENDS

Industry Trends

Workforce Behavior

IT Infrastructure

Business Drivers

Security Trends

Attacker Behavior

Evolving Threat Vectors

New Attack Targets

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MOBILE DEVICE LOSS AND THEFT

A survey of consumer users found that one out of every three users lost their mobile device[1]

Approximately 2 million smartphones were stolen in the U.S. in 2008[2]

Over 56,000 mobile devices were left in the back seats of the city of London taxi cabs during 6 month period between 2008 and 2009

Over the 2010 holidays, in the U.K. alone, a total of 5,100 smartphones and 3,844 notebook computers were lost at 15 different airports[3]

In Paris, 75% of 991 violent crimes that took place in October 2010 happened because of mobile phone theft[4]

[1]Information obtained from Junos Pulse Mobile Security Suite internal transaction logs;
[2]Forrester Research;
[3]Credant Technologies; [4]The Sydney Morning Herald, 12/10/10

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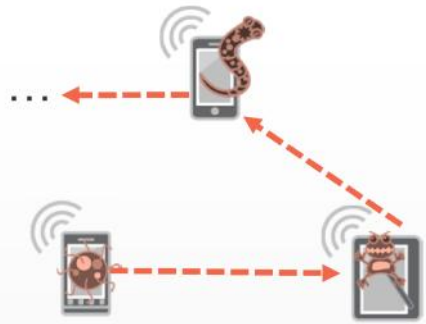
FAST PROLIFERATING MOBILE MALWARE THREATS

Trojans that send SMS messages to premium rate numbers

Background calling apps that rack up exorbitant long distance bills

Keylogging applications that compromise passwords and credit card or bank account numbers

Self-propagating code that infects devices and spreads to additional devices listed in a user's address book



Malware growing more sophisticated, now with polymorphic attacks

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MOBILE SECURITY RISKS ARE GROWING FAST!

40%
use their smartphone for both personal and business

72%
share or access sensitive info such as banking, credit card, social security, medical records

80%
access their employer's network without permission – 59% do it everyday

50%+
are very concerned about loss, theft and identity theft resulting from their mobile usage

Sources: KRC Research and Juniper Mobile Threat Center

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SECURING REMOTE, LOCAL & MOBILE USERS

Clumsy

- Uncoordinated security infrastructure
- Slow to respond and adapt

Expensive

- High OpEx due to significant ongoing maintenance
- High CapEx due to constant requirement to upgrade

Exposed

- Prone to human error and full of 'special cases'
- Inability to maintain security policy across all locations, for all users, on all devices, at all times

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JUNOS PULSE – EXTENDING SECURITY TO THE MOBILE WORKFORCE

Providing anyone a secure experience from any device from any location to any resource

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JUNOS PULSE SECURE DESKTOP SOLUTION

Dynamically provisioned client for:

- Connectivity
- Security
- Acceleration

Support for notebooks, netbooks and desktops

Location aware and identity-enabled

Standards-based

Platform for select third party applications

Builds on Juniper's market leading SA Series SSL VPN, UAC solution, and WXC Series technology!

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JUNOS PULSE SECURE MOBILITY SOLUTION

DESIGNED TO DELIVER:

A Secure Mobile Office and Secure Mobile Experience

- Granular role-based, secure VPN for **ALL** mobile devices
- Security on a broad range of mobile devices from malware and spam
- Alleviates a primary concern with mobile devices—loss & theft

Broad, comprehensive mobile platform support

Apple iOS

Google Android

Windows Mobile

Nokia Symbian

BlackBerry

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JUNOS PULSE COMPONENTS

The Pulse solution is delivered via the following basic components

- SSL VPN: SA or MAG appliances
- UAC: IC or MAG appliances in conjunction with SRX firewall and/or 802.1x compliant switches as enforcement points (e.g. Juniper EX switch)
- MSS: Software as a Service – no server or appliance to deploy

These components can be deployed individually or in any combination, based on customer needs. However, deploying multiple components does lead to significant solution benefits including business agility, cost savings and better security.

The following slides highlight some of the features, benefits and use cases for each of the components.

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SECURE REMOTE ACCESS HIGHLIGHTS

Gartner Magic Quadrant: Top Right

24 of the Fortune 25 use Juniper SSL VPN

Large scale, granular and extremely flexible

Solution for remote access, extranet portals, business continuity, connecting mobile devices

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NETWORK ACCESS CONTROL HIGHLIGHTS

Gartner Magic Quadrant: Top Right

Removes cost & complexity typically associated with NAC – start small and grow as needed

Open and standards based, interoperating with a wide range of technology from many vendors

Solution for guest network, compliance, network access for 3rd parties and dealing with insider threats

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MOBILE SECURITY HIGHLIGHTS

Integrated solution offering secure access, mobile security and mobile device management in one

Supports broad range of mobile operating systems

Software as a Service (SaaS) – no server or appliance to deploy or manage

Solution for all smart phone and tablet projects including consumerisation, bring your own, etc.

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JUNOS PULSE SOLUTION BENEFITS

Agile

- Users can access data and apps any time and anywhere with the same user experience
- Office moves, hot desks and changes to network infrastructure have no negative impact on security

Efficient

- Network security is automated resulting in:
  - Lower OpEx due to reduced maintenance overheads
  - Lower CapEx due to more efficient use of technology

Secure

- Changes are implemented immediately and consistently
- Supports variety of devices from range of locations without lowering security posture / increasing risk

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everywhere