

RSA移动安全面面观

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从RSA展会的角度 从趋势数据的角度 从企业发展的角度 从安全需求的角度 思考和总结



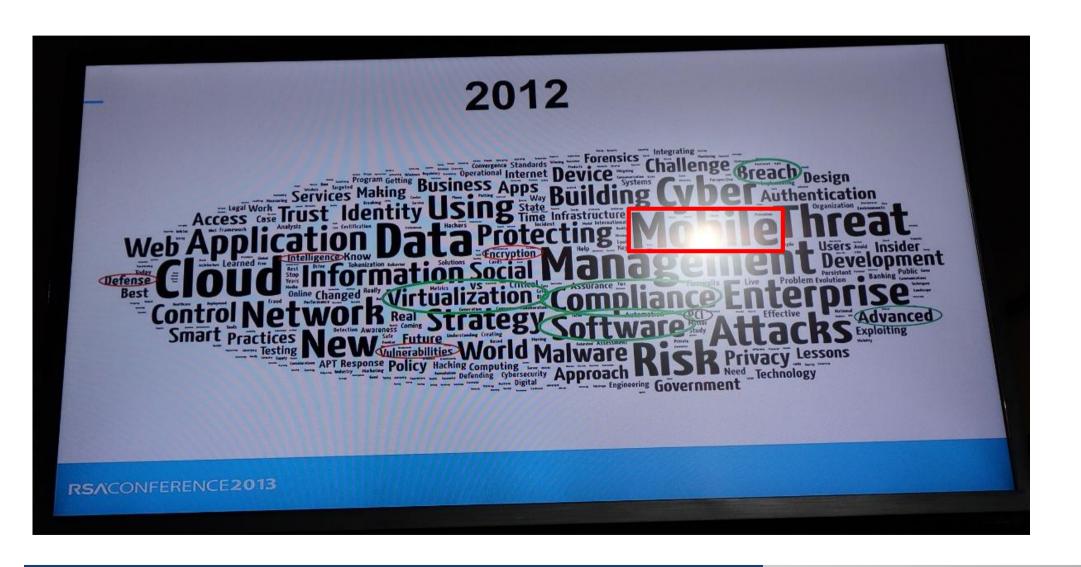
RSA展会的角度

从过去几年RSA展会的角度看移动安全阵营













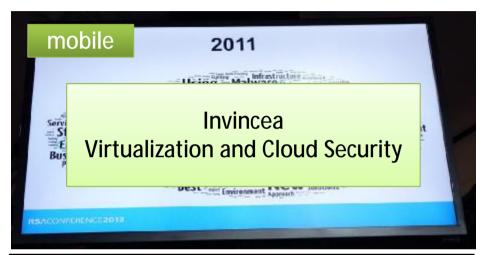
SA 2014





SA 2011 ~ 2014











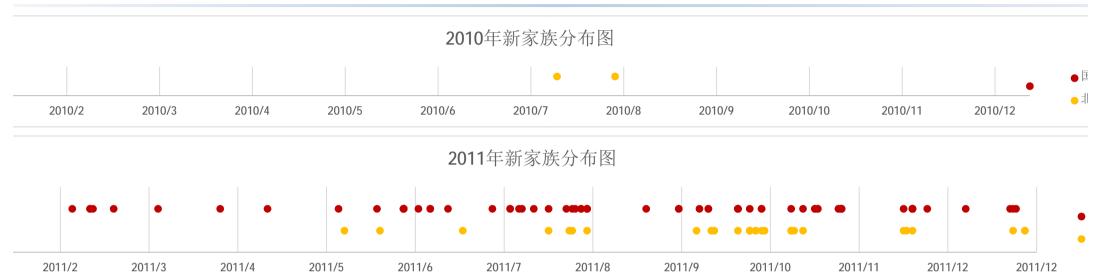


趋势数据的角度

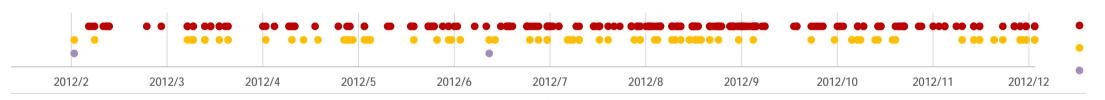
我们再从数据的角度,看看过去几年的移动安全形势

010~2013年恶意代码变迁

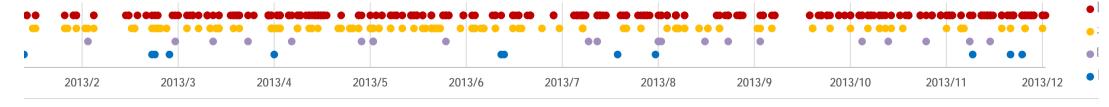




2012年新家族分布图



2013年新家族分布图

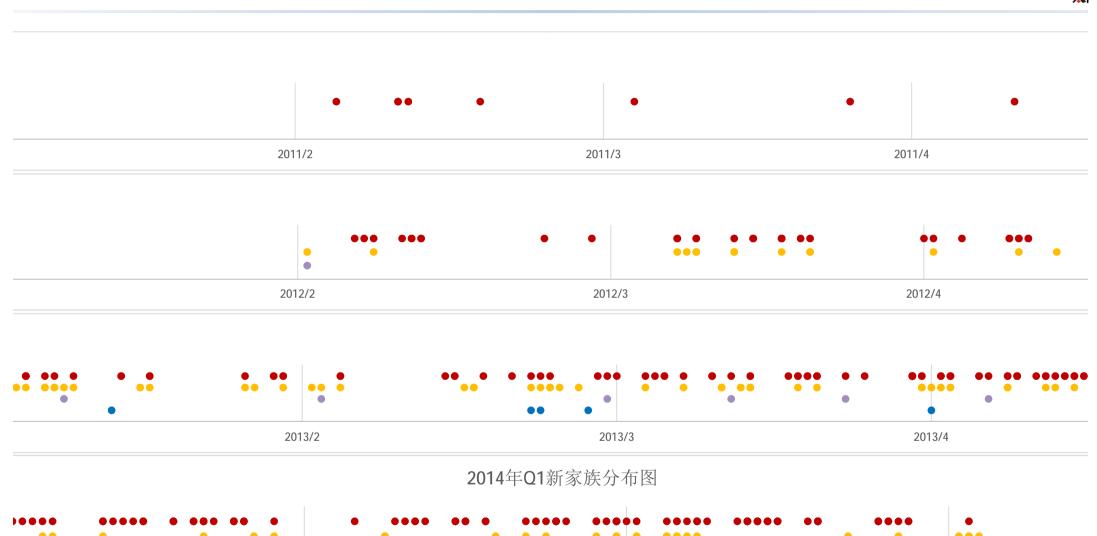


010~2013年恶意代码变迁

2014/2



2014/4



2014/3

010~2013年恶意代码技术脉络



2010 geinimi

2011

- adrd
- Droiddream
- kungfu

• FakeInst Smishing • Ssucl

2013

- Obada
- Chuli(APT)
- Syrup
- Masterkey

原创恶意技术

原创恶意技术

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原创恶意技术

原创恶意技术

漏洞利用(30day)

漏洞利用 (Oday)

技术利用 (APT)

技术利用 (360day)

漏洞利用 (20day)



企业发展的角度

从国内外企业发展的角度看移动安全的发展

SA 2012 ~ 2014



RSA 2012

- 个人
- AhnLab
- 企业
 - AirWatch
 - BluePoint
 - ForeScout
 - Pindrop
- 开发者
 - Arxan
- 创新沙盒获奖
 - Appthority
 - 较多移动相关

RSA 2013



- 较多, 超过5家
- 企业
 - AirWatch
 - Bluepoint
 - Damballa
 - FireEye
 - MobileIron
 - Mocana
 - Zenprise
 - Pindrop
- 开发者
 - Arxan
- 创新沙盒获奖
- Remotium安全应用

RSA 2014

- 个人
- •太多,超过10家
- 企业
- Appthority
- Mocana
- MobileIron
- Bluebox
- Veracode
- FireEye
- 开发者
 - Arxan
- 创新沙盒获奖
- RedOwl



SA 公司盘点



Application

Remotium

Antivirus&Protection

• Lookout, Bluepoint

BYOD/MDM

• AirWatch, MobileIron, Mocana, Zenprise

Service

• Appthority, PinDrop, Veracode

Solution

• PANW,FireEye,.....

孙移动安全团队



Lookout

- 2009年开始,持续占据北美和海外个人安全软件头名
- 超过100人工程师团队

FireEye

- 2012开始围绕Dawn Song进行移动安全团队组建,目前吸引了包含多名华人学者的超过40人的工程师团队
- 2012年发布了基于污点追踪的Android动态分析沙箱产品原型

Palo Alto Network

- 2012年在WildFire中加入对移动的支持,并在APP-ID上加入对部分移动的支持
- 2012开始和MobileIron, Citrix合作

Bluebox

- 1篇博客的力量,宣布发现MasterKey漏洞,声名大噪
- 发布企业移动安全解决方案

蒋旭宪老师研究团队

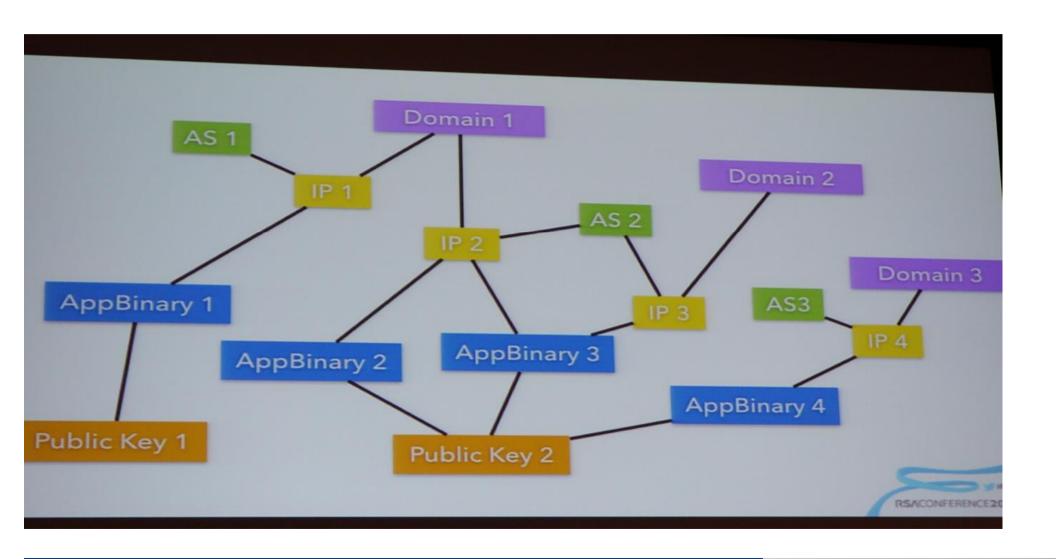
• 2011, 2012多次首发多个Android恶意代码家族和漏洞

Start-up&Other

- Appthority
- Veracode
- Trustlook , VisualThreat
- Zimperium , lacoon

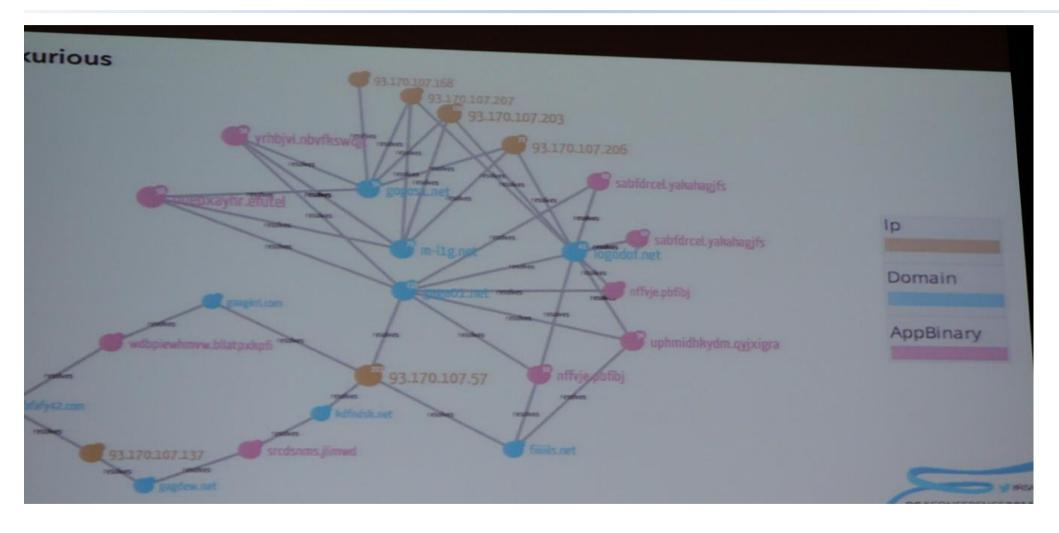
ookout的可视化分析





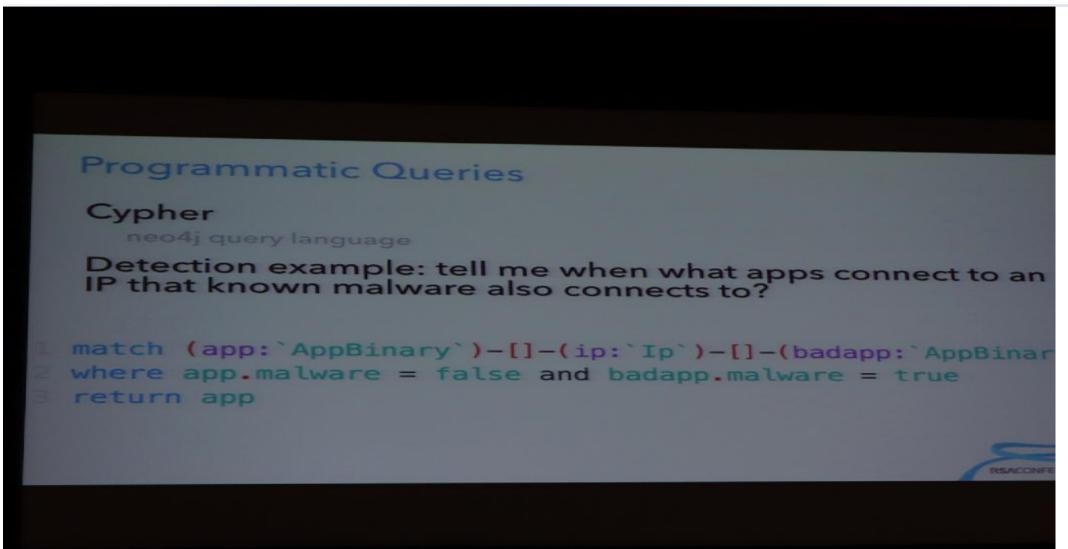
ookout的可视化分析





ookout的可视化分析





lobileIron的技术特点







统一平台

- Complete app management secure delivery, data containerization, tunneling
- · App download without network latency
- Data loss prevention (DLP) for iOS email
- · Privacy protection and data separation
- Identity-based security through certificates
- · Multi-user configuration for shared devices
- · Closed-loop automation for compliance
- SharePoint access and document security
- Cost control thru monitoring of int'l roaming
- Enterprise integration thru extensible APIs
- Single-system scale of 100,000 devices
- Multi-tier management for delegation
- Best-in-class for cloud and on-premise

Recent Recognition

Gartner: MobileIron positioned in the Leaders Quadrant of the Magic Quadrant for Mobile Device Management Software (May 2012) Info-Tech: MobileIron listed as a Champion in the Mobile Device Management Suites

Complete App Management

iOS was designed for apps. MobileIron provides app management for in-hot apps, App Store apps, and web apps:

- Secure, identity-based delivery of in-house and App Store apps through Apps@Work private app storefront
- Distribution and silent install of HTML apps as Web Clips
- Selective wipe of business apps and apps data on the device
- Blacklist/whitelist of apps to protect against inappropriate access or
- Integration with the App Store Volume Purchase Program (VPP)
- App download through the App Delivery Network (AppDN) to minim network load and provide fast downloads for the end user
- Containerization and dynamic policy to protect data-at-rest and enal compelling app-based user experiences through AppConnect*
- Secure tunneling to protect data-in-motion through AppTunnel*

iDK支持

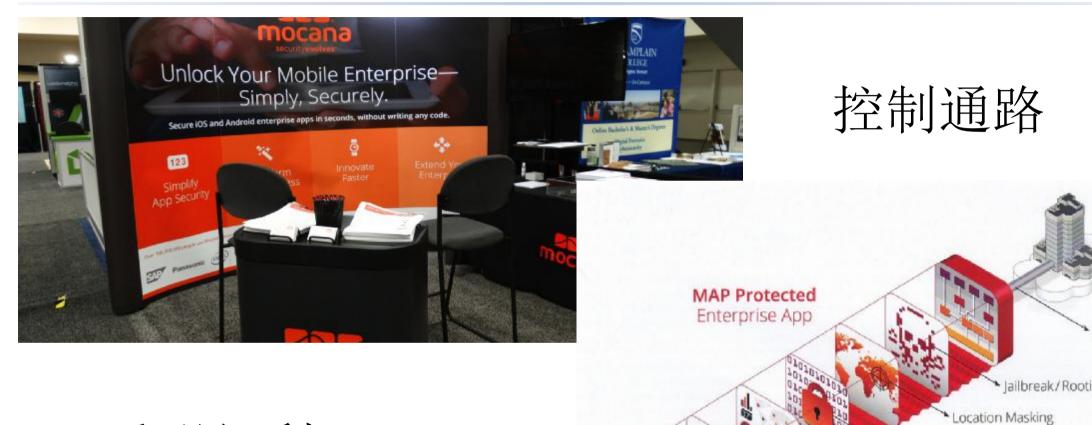
locana的技术特点



Data-At-Rest Encryption

Secure Data Transfer

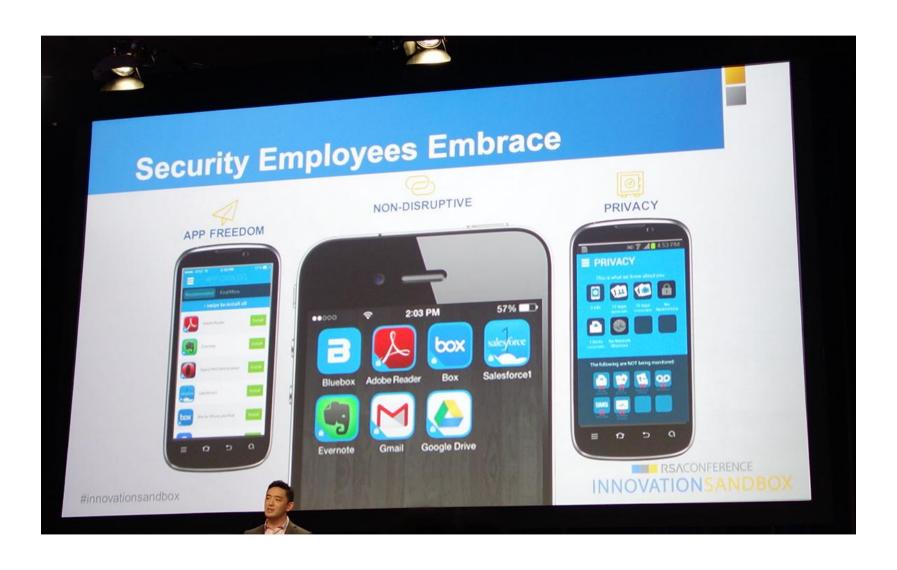
User Authentication



透明便利

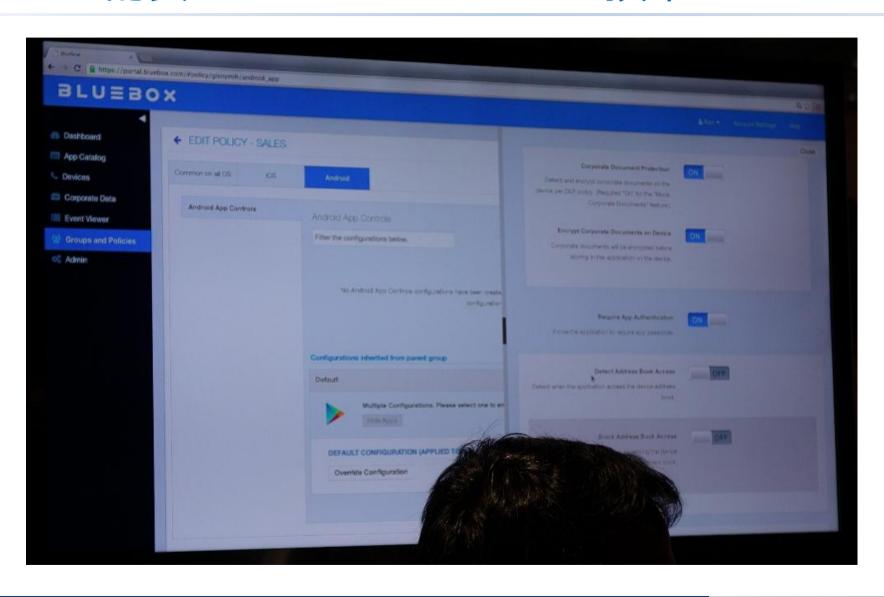
luebox的安全Context Container技术





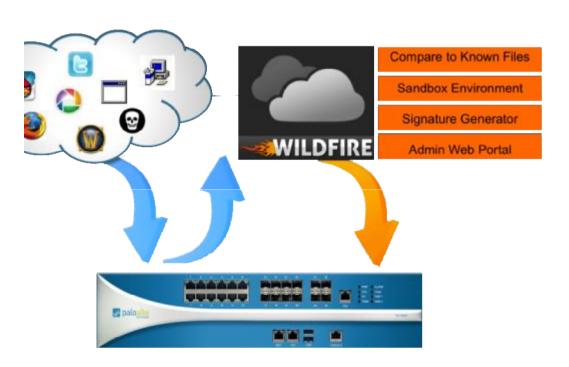
luebox的安全Context Container技术



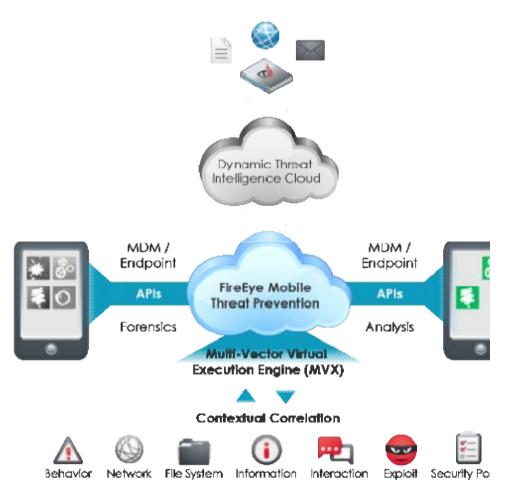


reEye&PANW





WildFire



MobileThreatPrevention

tart-up/Other









应用安全风险管理

Mobile APT

Analysis Service





LACOOL

Audit Service

Mobile IPS

Behavior-ed Based

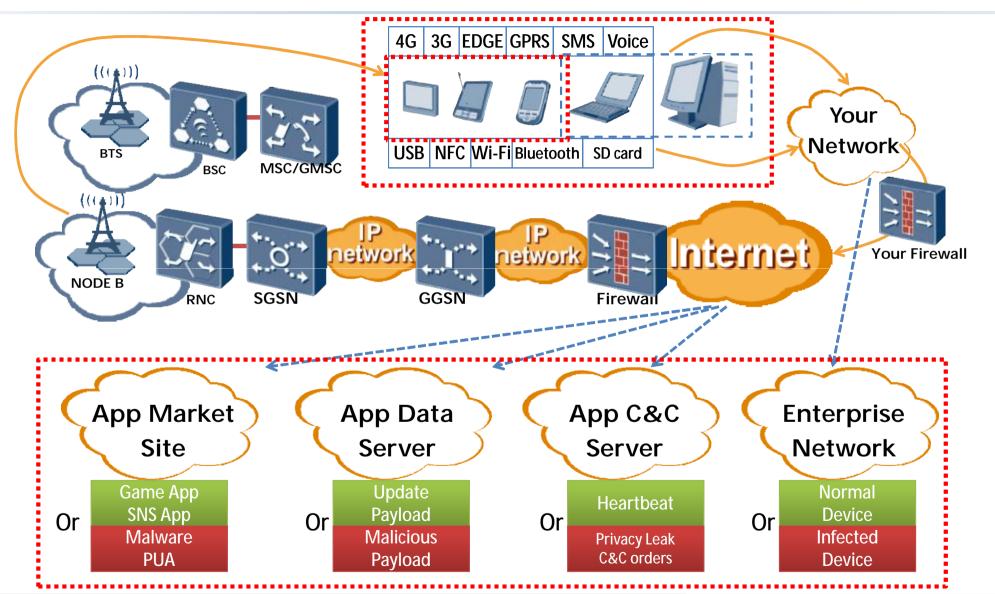


安全需求和技术的角度

安全需求和技术在中国和海外差异巨大

动安全的挑战

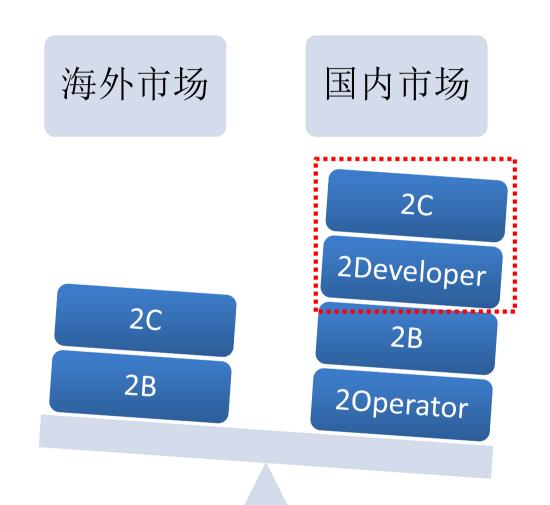




孙和国内的需求差异



企业级安全为最大 市场和需求 个人安全主要被传 统PC安全厂商重 新划分 技术创新一般,但 商业思路成熟

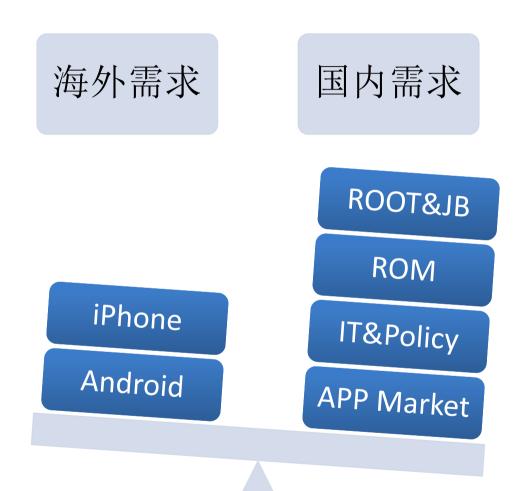


- 个人安全是最大的 市场和竞争,安全 全面走向范安全
- 企业级安全的市场需求短期还是在第
- 安全需求和产品覆盖面和模式丰富
- · 技术创新丰富,, 效,但商业成熟。 还需要时间

孙和国内的技术需求差异



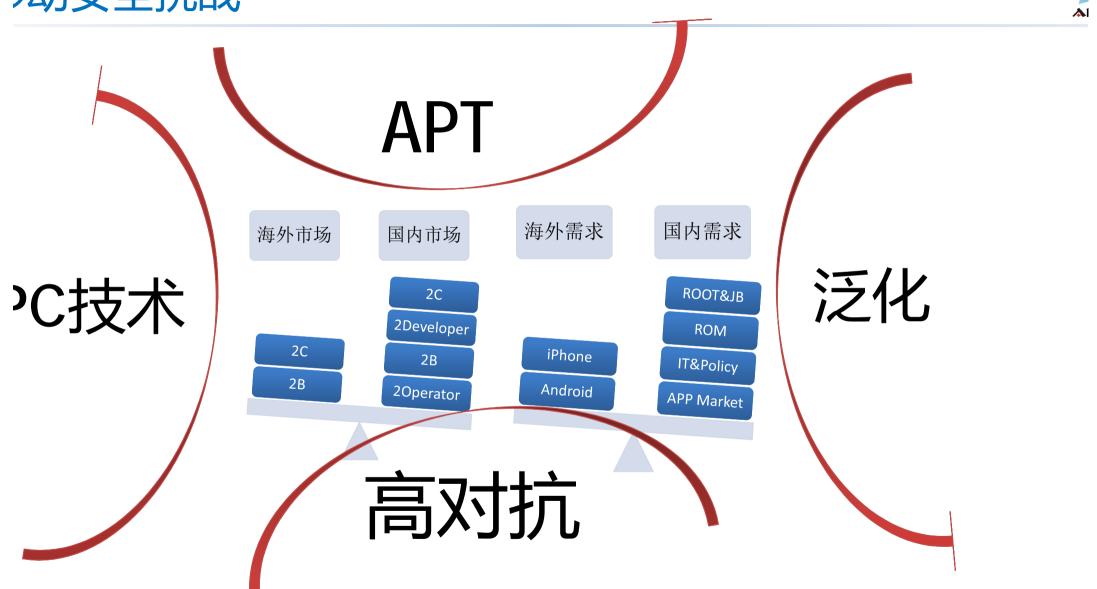
iPhone成为 刚需求 Google/And roid在持续更 新,并调整安 全策略



- 越狱提权
- ROM和碎片
- 行业策略和1 业治理,版机 保护
- 应用分发渠道发达

动安全挑战







移动安全新生进行中

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