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Company: NQ Mobile Inc.

Ticker: NQ

**Industry:** Mobile Security

Thesis: Strong Sell

Report Date: October 24, 2013

**Target Price:** < \$1

Stock Price: \$22.88

Market Cap: \$1.1 Billion

Float: 31.1 Million

Avg Volume: 4.9 Million

- NQ is a massive fraud. We believe it is a "Zero". At least 72% of NQ's purported 2012 China security revenue is fictitious. NQ's largest customer by far is really NQ. Our research estimates that NQ's real market share in China is only about 1.5%, versus the approximately 55% it reports. We estimate that its China paying user base is less than 250,000, versus the six million NQ claims.
- NQ's Antivirus 7.0 is unsafe for sale to consumers, and we consider it to be spyware that makes users' phones vulnerable to cyber attack. NQ makes a weak attempt to protect users' private data as it's uploaded through the Chinese government's firewall to NQ's server. Phones are vulnerable to MITM attacks because NQ fails to adhere to basic security protocols. MW engaged top-flight security software engineers to analyze this product.
- NQ's purported international revenue of \$36.5 million is likely less real than its PRC revenue. NQ claims to generate international revenue in obscure markets, and through mysterious counterparties that seem to seldom pay.
- NQ's future is as bleak as its past. The recent pivot to advertising and gaming is merely an attempt to change to a fraud that NQ hopes will be less obvious. NQ cannot monetize users that it does not have.
- NQ's acquisitions are highly likely to be corrupt.
- NQ's cash balances are highly likely to not be real. In NQ's 2012 20-F, PwC classified all cash and term deposits as Level 2 assets (slightly hard to value), which is the first time we have seen this. NQ's purported movements of cash from its IPO almost certainly did not occur due to PRC FX controls. We therefore believe the term deposits are likely forgeries.

# NQ Mobile: China Fraud 2.0

NQ is a massive fraud. We believe it is a "Zero". At least 72% of NQ's purported China security revenue is fictitious. NQ's largest customer by far is really NQ. Its real business with carriers and SPs is a fraction of what NQ purports. NQ's online payment portal does not work – it is cosmetic only, designed to make investors think that NQ is a real company. NQ's prepaid card channel is a bad joke. We estimate that NQ's real market share in China is about 1.5%, versus the approximately 55% it purports. We estimate that NQ's paying China user base is less than 250,000, versus the approximately six million it purports. This fraud and the undisclosed related party transactions amount to securities fraud. We have already provided the SEC with information concerning NQ.

NQ's Antivirus 7.0 is unsafe for sale to consumers, and we consider it to be spyware. We engaged a group of top-tier specialized software engineers to dive deeply into the application's code. The engineers found that the application creates serious vulnerabilities, making users' phones prone to data compromise and cyber attack by hackers or the Chinese government. In other words, users phones are much more susceptible to compromise or attack with AV 7.0 than with nothing at all. NQ's applications send far more data than necessary to its server in China. This data includes information on all URLs a user visits and location information (among other sensitive items). The uploaded data is not sent securely (let alone in accordance with industry standards), despite passing through the Chinese government's firewall, which is believed to view and store all passing data. NQ sends this data to a third party analytics firm in China. Downloads are even less secure. The application does not require signature, making the phone highly vulnerable to third parties uploading malware. Our engineers successfully staged such an attack. After their analysis, the engineers speculated that these vulnerabilities could be deliberate because the techniques vary so widely from industry standards.

NQ's purported international revenue is even more questionable than its PRC revenue. A leading Android analytics provider estimates that NQ's global annual app revenue is well under \$1.0 million. NQ generates de minimis revenue in the United States. The agreements NQ has announced with various US partners seem to have resulted in attachment rates of only 2% to 3%. NQ's purported days sales outstanding ("DSO") from are 198 days– much of which supposedly comes international revenue. Even in the most emerging of markets, NQ should be getting paid in 30 to 45 days. NQ's involvement with Telefónica is massively exaggerated. It is one of 3,000 developers on Telefonica's Blue Via platform. No developer has ever been expelled from the platform.

NQ's future is as bleak as its past. Its expansion into gaming and advertising is merely an attempt to prolong the fraud. NQ's lies about its security app market share have worn very thin, and the Company is trying to hide the ball by switching emphases. Co-CEO Omar Khan offers the clearest explanation of why NQ's expansion will fail. If NQ were really a "platform" that had the lowest user acquisition costs in the world, as Mr. Khan claims, then there could be a strategic basis for the expansion. In reality, NQ's acquisition costs are closer to being the highest in the world, and it should not be called a "platform" with a straight face. This is merely a way to claim to be in a business in which NQ hopes its fraud will be less obvious.

With one exception, NQ's real management (i.e., those perpetrating the fraud) are sloppy – to the point of being comical – fraudsters. They broke – with flying colors – the cardinal China fraud rule of not getting into trouble in China. NQ was caught red handed by China's largest television news organization, CCTV, installing malware on phones in order to sell them the cure. In addition to that incident, and the subsequent lies NQ tells about it, are illustrative of the type of people behind NQ. In addition to being greedy and willing to engage in illegal behavior, they are clearly undisciplined. That lack of discipline and desperation for real revenue leads them to do bizarre things, such as developing a knockoff Segway (we call it the "Family Guardian Emergency Response Vehicle"); selling anonymous phone cards in China to phone spammers (again, making the cure and the disease); trying to sell a "NQ for Men" app that enables philandering; engaging in black hat SEO by likely infringing trademarks of companies such as Samsung, Vodafone, and Apple; fabricating virus discovery announcements; and, claiming to have paid an outrageous amount (\$1.55 million) for its domain.

The one intelligent move NQ made to further its fraud is putting in place the veneer of US management – particularly "Co-CEO" Omar Khan. Were Mr. Khan not fronting for NQ, we do not think that investors would have been so willing to overlook so many red flags. It is unclear what Mr. Khan does and does not know; however, he is not a member of the boards or management of any of NQ's China entities. It is clear that his stock package is worth close to \$100 million, which is likely far more than he would have earned as a non-C level manager at Citigroup.

NQ's auditor has clearly done a sloppy job. The auditor failed to ensure that disclosures about cash balances by entity are correct. It classified all cash as a Level 2 asset, which we have never seen before. The auditor failed to ensure that share-based compensation is recorded at the correct entity. It permitted NQ to reclassify significant costs from Cost of Sales to R&D, substantially boosting NQ's gross margin. The auditor failed to notice that receivables from NQ's largest purported trade debtor, Yidatong, are aged well beyond what the contract permits. Having noticed this might have clued in the auditor that Yidatong is really NQ.

NQ's acquisitions are highly likely to be corrupt. Analysis of SAIC files of certain of NQ's acquisitions shows inconsequential businesses with very little capitalization. In some cases, we see shareholders of these purported technology companies who appear to be highly unlikely – villagers from remote parts of China who do not even have high school education. In some cases, the companies were operating at ghost addresses at the time NQ acquired them. "Ghost addresses" are a major theme in our due diligence on NQ. A ghost address is not only one where the subject company cannot be found, it is one where no business can physically be found – usually because the address does not exist.

NQ's cash balances are highly likely to not exist. Certain purported movements of IPO funds to one of NQ's onshore entities almost certainly could not have, and therefore did not, occur. The classification of all of NQ's cash and equivalents as Level 2 assets (meaning assets that are somewhat difficult to value) raises massive red flags about what evidence of cash balances NQ has given its auditor.

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# The Vast Majority of NQ's China Revenue is Fraudulent

We conclude that at least 72% of NQ's reported \$32.2 million in 2012 China security software is fraudulent.<sup>1</sup> SAIC financials for Yidatong, its largest customer, NQ's enterprise and gaming companies, NationSky and FL Mobile, show indicia of fraud. It is therefore likely that very little of NQ's reported China revenue is real.

NQ reported \$32.2 million in security software revenue in 2012 from China. We believe that NQ's real security revenue was \$2.5 million to \$7.7 million (7.8% to 23.9% of reported revenue). NQ purports to generate security revenue in China from three sources: carrier billing, which consists of receiving payments directly from mobile carriers and through "Service Providers" ("SPs"), direct payment through third party payment services, such as its purported partner Alipay; and prepaid cards (which encompass scratch off cards and purportedly also activation codes provided to retailers). (NQ might be preparing to fraudulently claim that carriers' prepaid cards are another payment channel.)

# NQ's carrier billing channel revenue is inflated by at least 362% after eliminating NQ's fraudulent sales to the shell company it secretly controls, Yidatong.

NQ's largest customer is really NQ. NQ secretly controls a shell company called Yidatong ("YDT"). NQ claims that YDT is an independent company, and accounted for \$20.2 million in 2012 revenue. In 2012, NQ's China carrier billing channel revenue totaled \$27.9 million, meaning that without YDT's revenue, the carrier billing channel generated at most revenue of only \$7.7 million, 72.1% lower than NQ purports. (This is generous, as we believe that China carrier billing was likely no more than \$2.5 million.) After conducting extensive due diligence on YDT, we conclude that YDT is an empty shell with no discernable operation whatsoever. Further, YDT is really NQ. Our due diligence process included visiting 10 sites purportedly occupied by YDT, all of which were empty or did not exist; studying YDT's SAIC files and financial statements; searching for current and former employees; and reviewing various other records.

YDT's financial statements show that it generated a fraction of the business NQ claims YDT does. YDT's purported role is a SP (i.e., transaction processor), facilitating NQ's billing of mobile carriers in China.<sup>2</sup> For NQ to have generated \$20.2 million in revenue from YDT, YDT would have to have generated at least that much itself because NQ receives its revenue from YDT net of YDT's margin. PRC accounting standards mandate that YDT book all funds it receives from the carriers as its revenue, and then book the payments to NQ and other clients as costs of sales.<sup>3</sup>

<sup>&</sup>lt;sup>1</sup> NQ March 2013 investor presentation.

 <sup>&</sup>lt;sup>2</sup> Wireless Value-Added Application Service Channel Cooperation Agreement (Domestic) Between Beijing NetQin Technology Co. Ltd. and Tianjin Yidatong Technology Development Co. Ltd. Exhibit 10.11 to 2012 20-F.
 <sup>3</sup> Accounting Standards for Enterprises No. 14 – Revenues.

http://209.200.107.14/english/law2\_disp.asp?sublawcode=SUB57585711610141610&lawcode=LAW35449119912 91514&country=China

According to SAIC financials, YDT only generated \$2.9 million in 2012 revenue, which is 14% of what NQ purports to have generated in revenue from YDT. YDT would have had to generate at least the \$20.2 million NQ purports to have generated from YDT...to say nothing of the 40% of YDT revenue purportedly attributable to other clients.<sup>4</sup> YDT's Cost of Sales account would include any amounts YDT paid to NQ and its other customers. Instead, YDT generated only \$2.9 million in revenue, and had Cost of Sales of only \$1.8 million. NQ reported accounts receivable from YDT of \$9.3 million as of FY 2012,<sup>5</sup> but YDT's financials show total accounts payable of \$3.7 million, once again showing the fraudulent nature of NQ's financials.

PRC GAAP requires that YDT's financial statements book revenue gross of payments to NQ and other customers.<sup>6</sup> The Business Tax (sales tax) of \$97,000 YDT paid was a fraction of the more than \$4.0 million it would have paid if it were generating the volumes NQ claims. The lack of Business Tax payments confirms that YDT's revenue is shown in its SAIC file on a gross basis. Under the PRC tax regime, YDT pays Business Tax on the gross amount of revenue it collects from carriers.<sup>7</sup> If NQ tries to argue that YDT is just your upstanding tax cheat,<sup>8</sup> the argument would not hold water. The parties that purportedly pay YDT – China Mobile, China Telecom, and China Unicom – would require Business Tax invoices in order to avoid being taxed on monies paid out. For YDT to generate a Business Tax invoice, it would need to pay the tax to the Tax Bureau, which would cause it to show up in YDT's financials.

YDT's income statement is below. It generated far less revenue, and paid far less in Business Tax than it would have were NQ's claims not fraudulent.

<sup>&</sup>lt;sup>4</sup> NQ claims that YDT derives roughly 60% of its revenues from NQ. Assuming YDT only has a 10% gross margin on NQ business, YDT would generate about \$35 million. See NQ "Response to J Capital Report, NQ: Not at Any Price," August, 2013.

<sup>&</sup>lt;sup>5</sup> NQ 2012 20-F, p. F-17.

<sup>&</sup>lt;sup>6</sup> Accounting Standards for Enterprises No. 14 – Revenues:

http://209.200.107.14/english/law2\_disp.asp?sublawcode=SUB57585711610141610&lawcode=LAW35449119912 91514&country=China

<sup>&</sup>lt;sup>7</sup> https://www.bj.10086.cn/Portals/0/revision/images/mwsphzglssdxywfc.pdf

<sup>&</sup>lt;sup>8</sup> "Upstanding tax cheat" is meant to illustrate the cognitive dissonance many investors in China companies exhibit when they argue that a given company is not a fraud – it merely cheats on taxes, resulting in understated revenues on SAIC financials.

	201	10	201	1	201	12
	Rmb000	US\$000	Rmb000	US\$000	Rmb000	US\$000
Sales	2,345	350	8,157	1,265	18,112	2,898
Cost of sales	-	-	5,310	823	10,982	1,757
Business tax etc	78	12	274	42	609	97
Gross margin	2,267	338	2,573	399	6,521	1,043
Selling exp	1,687	252	1,944	301	5,882	941
G&A exp	572	85	554	86	621	99
Financing costs	(2)	(0)	(11)	(2)	(11)	(2)
Operating costs	10	1	86	13	29	5
Non operating income	66	10		-		-
Non operating costs		-	10	2		-
Pre tax income	76	11	76	12	29	5
Income tax	19	3	19	3	7	1
Net income	57	9	57	9	22	4

YDT's balance sheet below shows total payables that are a fraction of what NQ claims its AR from YDT were at the end of 2012. NQ purports that its AR from YDT was \$9.3 million.

	201	0	201	1	2012		
	Rmb000	US\$000	Rmb000	US\$000	Rmb000	US\$000	
Cash	5,915	870	4,340	689	904	146	
AR	2,008	295	447	71	22,012	3,550	
Prepayment	6,038	888	285	45	287	46	
Other receivables	4,374	643	5,987	950	6,262	1,010	
Current assets	18,335	2,696	11,059	1,755	29,465	4,752	
Fix assets	238	35	238	38	238	38	
Less:Depreciation	(205)	(30)	(205)	(33)	(205)	(33)	
Fix assets, net	33	5	33	5	33	5	
Intangible assets	3,033	446	2,633	418	2,233	360	
Deferred assets	4	1		-		-	
Total assets	21,405	3,148	13,725	2,179	31,731	5,118	
Accounts payable	10,817	1,591	5,038	800	23,016	3,712	
Other payable	3,244	477	1,244	197	1,244	201	
Welfare payable	137	20	137	22	138	22	
Tax payable	8	1	49	8	55	9	
Current liabilities	14,206	2,089	6,468	1,027	24,453	3,944	
Total liabilities	14,206	2,089	6,468	1,027	24,453	3,944	
Capital	10,000	1,471	10,000	1,587	10,000	1,613	
Retained earnings	(2,801)	(412)	(2,743)	(435)	(2,722)	(439)	
Equity	7,199	1,059	7,257	1,152	7,278	1,174	
Equity and liabities	21,405	3,148	13,725	2,179	31,731	5,118	

YDT is a ghost company (because it is really NQ). We tried extremely hard to find its operations, but were unsuccessful, despite visiting ten different office addresses throughout China. We obtained these addresses from YDT's SAIC filings, its website, NQ's SEC filings, and other sources. Five of the addresses were ghost addresses – i.e., it would have been

impossible for YDT to ever be there because the addresses did not exist. (Ghost addresses are a theme that runs throughout our due diligence on NQ.) YDT's offices are either non-existent or completely empty. NQ claims that YDT accounted for roughly 15% of NQ's Q1 2013 revenue;<sup>9</sup> yet, YDT is clearly incapable of processing meaningful amounts of payments on behalf of NQ because it does not have even one employee regularly present to:

- turn on the lights,
- answer phones,
- reconcile billing issues with carriers,
- order office supplies,
- pay vendors,
- develop and implement marketing programs,
- sell services to new and existing customers,
- handle inquiries from existing customers, and
- (duties from NQ's purported contract with YDT): maintain the value-added technology
  platform, technology platform interface; provide verification codes for related products
  and technology support to customers; coordinate with telecom operators to ensure the
  testing and activation of client business; negotiate and communicate with telecom
  operators; maintain the revenue and flow search pages for customers; delete non-existent
  or discontinued users; review customers' marketing methods; oversee customers'
  compliance; develop, maintain, ensure stability and responsiveness of the information
  platform.

(On the positive side, it appears as though YDT's business model does not call for any human resource employees, which is an innovative approach to cost saving.)

We explored several permutations of the address for YDT's headquarters in Tianjin, before finding it in the Tianjin Haosheng Building. Because the lobby directory still had the prior tenant's name plate posted for room 502-2, and the office door located off a narrow, dingy hallway was unmarked, we thought it was another dead end. However, when queried, the building's management office confirmed that YDT did indeed rent room 502-2.

The manager of the building in which YDT has its headquarters said "this is just the registered address, but nobody works here...They all work in Beijing it seems, all of them, this is just the registered address, this is not their workplace, it's in Beijing". However, the YDT employees do not work in Beijing...or Shanghai...or Xi'an...or any of the nine purported YDT addresses we found. YDT is clearly a company trying not to be found. Below is a summary of our site visit attempts and findings. Actually, it is not really a company – we suspect that the meager revenue and expenses it did show were run through its books for reasons unconnected to its purported operations.

<sup>&</sup>lt;sup>9</sup> NQ "Response to J Capital Report, NQ: Not at Any Price," August, 2013.

	Address	Note	Source
Yidatong (Tianjin) Headquarters	天津市天津经济技术开 发区第 3 大街 8 号豪威 大厦 1 门 502-2 1-502-2, Haowei Tower, No. 8, Third Street, TEDA, Tianjin Source: SAIC address	Visited. Confirmed with building management that this is Yidatong's registered address. Was told Yidatong has no operation there, no employees work at this location. The lobby directory also shows the company name of the former resident of the office space. Found 502-2 located down a narrow hallway, sharing the 502 number with two other small businesses. There was no sign posted on the door and the door was locked. Neighboring business were not familiar with them either.	YDT SAIC file
Yidatong - Beijing	北京海淀区清华园三才 堂 42 号 9 棟二层 4590 4590, Second floor, Ninth Building, No. 42, Sancaitang, Qinghuayuan, Haidian District, Beijing Source: SAIC address	Ghost address. <b>Building 9 does not</b> exist. At No. 42 there are only two buildings. Furthermore, in the Qinghuayuan area, no community is composed of more than 7 buildings.	YDT Beijing office SAIC file
Yidatong - Beijing	北京雅宝大厦 032 室 Suite 032, Yaobao Building, Beijing	In Suite 032 of the Yaobao Building, there is only a wholesale store selling gloves. The Yaobao Building management office confirmed Yidatong was not a tenant; additionally they explained they have no corporate tenants, and only are renting to individuals who are operating small businesses.	Online research <sup>10</sup> ,
Yidatong - Beijing	北京市首体南路 22 号 11 层 11A Suite 11A, Floor 11, No. 22, Shoutinan Road, Beijing	No 22, Shoutinan Road is a single building. The 11th floor is occupied by another company. Building management never heard Yidatong.	YDT Beijing office SAIC file, Online Research, <sup>11</sup>
Yidatong – Beijing	北京东城区和平里东街 4 号院 4 楼. Building 4, No. 4 Yard, Hepingli East Street, Dongcheng, Beijing	Ghost address. Yard 4 does not exist.	YDT-NQ agreement, NQ, Exhibit 4- 13.

<sup>10</sup> http://www.xizhi.com/COMDAEKVQEBAAk4M69/, http://beijing.youbian.com/huangye/info592868/

http://bj.gsdpw.com/%E5%A4%A9%E6%B4%A5%E5%B8%82%E6%98%93%E8%BE%BE%E9%80%9A%E7% A7%91%E6%8A%80%E5%8F%91%E5%B1%95%E6%9C%89%E9%99%90%E5%85%AC%E5%8F%B8%E5% 8C%97%E4%BA%AC%E5%88%86%E5%85%AC%E5%8F%B8

Yidatong-Xi'an	西安市碑林区红缨路 9 号豪盛大厦 C 座 30 801 室 Suite, 30801 Haosheng Building, No. 9, Hongying Road, Beilin District, Xi'an City	Ghost address. It appears the address was a combination of two others. No.9 Hongying Road is a pharmacy. The Haosheng Building is adjacent to it, but it's address is No. 78, Zhuque Ave. There is no suite 30801 in Haosheng Building. The management office never heard of Yidatong and confirmed the company does not have an office in the Haosheng Building.	Online research <sup>12</sup> , SAIC address
Yidatong- Guiyang	贵阳市南明区新华路 242 号 2 栋 2 单元 7 层 12 号 2-7-12, Building 2, No. 242, Xinhua Road, Nanming District, Guiyang	This is a residential community and no companies are located within it. Community residents never heard of Yidatong. The community is also older, disorderly, and down market.	SAIC address Online research <sup>13</sup>
Yidatong- Guangzhou	广州市天河区中山大道 棠下村儒林路大街东三 巷 27 号。 No. 27, Dongsanxiang, Rulinlu Ave. Tangxia Village, Zhongshan Ave. Tianhe District, Guangzhou City	Ghost address. There is only No. 18- 26. There is no 27. Furthermore, there is no Yidatong in this area. Talked with locals and management office.	Online research <sup>14</sup> ,
Yidatong- Guangzhou	广州经济技术开发区青 年路 511 号上层 202 室。 202, Upper Level, No. 511, Qingnian Road, Guangzhou EDA, Guangzhou	Visited No. 511 Qingnian Rd, which is a sanitation company. The building's upper level is a residential apartment. Based on conversations with local residents, no company operates at upper level.	SAIC source, Online Research <sup>15</sup> , Company website <sup>16</sup>
Yidatong- Shanghai	上海市奉贤区现代农业 园区大庆路3号房D区 3号	Ghost address. Within the Fengxian District, there is no Daqing Rd. only a Daxing West Road. However Google maps displays this as Daqing Rd. The buildings were re-numbered.	SAIC address, Online research

<sup>&</sup>lt;sup>12</sup> http://company.ch.gongchang.com/info/51510557\_886a/
<sup>13</sup> http://www.xizhi.com/COMDwEIUwIOCQAXHW3/
<sup>14</sup> http://www.ems185.com/corp\_125662.html , http://www.ems185.com/corp\_125662.html
<sup>15</sup> http://www.11467.com/shanghai/co/179331.htm
<sup>16</sup> http://www.yidatone.com/contact.jsp

No. 3, Block D, Suite 3, Daqing Road, Modern Agriculture Park, Fengxian District, Shanghai	Previously the address for No. 41 was No. 3. No. 41 is now a kindergarten; prior to that it was a technical school and a middle school. The office of the Community Residents' Committee located nearby never heard of the company Yidatong and one member became borderline irate by the suggestion that Yidatong could be located at the same address as the school.	
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We subscribed to NQ's paid mobile apps via carrier billing on 17 different prepaid SIMs in order to see whether YDT shows up as the SP. Unsurprisingly, it did not. The results of our attempts are below.

Operator	Province	SP No.	Service Provider
Mobile	Jiangsu, Suzhou	1065800829	UMPay
Mobile	Shanghai	1065800829	UMPay
Mobile	GuangDong, Guangzhou	1065800829	UMPay
Mobile	Beijing	1065800829	UMPay
Mobile	Sichuan, Chengdu	1065800829	UMPay
Mobile	HeilongJiang, Qiqihaer	1065800829	UMPay
Mobile	Hubei, Wuhan	1065800829	UMPay
Mobile	Fujian, Putian	1065800829	UMPay
Mobile	Shandong, Dezhou	1065800829	UMPay
Mobile	JiangSu, Suzhou	1065800829	UMPay
Mobile	HeilongJiang, Suihua	1065800829	UMPay
Telecom	Shanghai	106610794	NQ
Telecom	JiangSu, Nanjing	106610794	NQ
Unicom	Beijing	1065558237	Unisk
Unicom	Shandong, Qinan	1066558237	Unisk
Unicom	Sichuan, Chengdu	1065558237	Unisk
Unicom	Shanghai	1065558237	Unisk

We understand that the same SP generally handles billing for both prepaid and postpaid accounts for a given carrier and city or province.

The days sales outstanding from YDT stood at 167 days at December 31, 2012, despite the purported contract between NQ and YDT requiring settlement within 30 days.<sup>17</sup> This contradiction affirms our conclusion that YDT is a sham counterparty. The DSO mismatch with

<sup>&</sup>lt;sup>17</sup> NQ 2012 20-F, Exhibit 10.11, p. 6. In addition, an Agreement between NQ and China Mobile also has terms of 45 days. NQ 2012 20-F, Exhibit 10.13, p. 8.

the contractual requirement is one of several data points we identified evidencing that NQ's audit is materially deficient. (See NQ's Filings Make Clear that PwC's Audits Were Sloppy for the discussion of the myriad audit failures.)

The high DSO from YDT does not relate to international (i.e., non-PRC) business, and therefore is not subject to payment terms greater than 30 days. NQ executed an agreement with YDT for international business in April 1, 2010 "that provides for up to one calendar month" to pay; however, that agreement expired on March 31, 2012.<sup>18</sup> Aside from the issue of YDT not having an international department, NQ investor relations informs investors that all of YDT's purported revenue is from PRC revenues.

The contracts between NQ and YDT are sham contracts. NQ has executed two contracts for domestic business with YDT – one on April 1, 2010 and the other on June 1, 2012. In addition to YDT's failure to remotely adhere to the payment terms of the contract or provide a staff to carry out its purported duties, the following sloppy errors in the contracts exist because the contracts were never intended to govern a real business relationship.

- China Telecom was not included in the original contract, it was included in the second
- In the first contract, there was no mention of who owned the registered users. In the second contract, the registered users information and database were owned by both parties.
- The arbitration clause was drafted in a way that could make any arbitration award unenforceable because it lacked necessary (and standard) language regarding the execution of awards.

YDT's purported application lineup shows that even if someone were trying to operate it as a business, it would fall far short of generating the approximately \$35 million total revenue NQ claims YDT generates as a SP. YDT does not appear to represent any remotely in-demand products or provide any service of economic substance. A review of YDT's website shows an unimpressive portfolio of 12 products: three e-book readers, two video game simulators, two products from NQ, Microsoft's Mobile MSN, and the ever essential "Network Clock" application.

NQ and YDT have a history of suspect financial dealings. YDT received "advances" from NQ each year between and including 2007 to 2011 in amounts totaling approximately \$5.0 million.<sup>19</sup> It is stunning that NQ's auditor has not looked closely at YDT.

The claim that NQ would have needed to work with YDT does not hold water. YDT is supposed to be a "Service Provider" ("SP"), which is a company that the Ministry of Industry and Information Technology ("MIIT") licenses to provide "value added telecommunication services" through mobile phone carrier billing. In the past, SPs aggregated content from mobile "Content Providers" ("CP"), and provided it to carriers. The content was 2G content, such as ringtones and SMS alerts. At the time, CPs had no way beside carrier billing to charge users, and carriers did not yet have their own app stores. Around 2006, China's SPs began to die out as content

<sup>&</sup>lt;sup>18</sup> NQ 2012 20-F, Exhibit 10.10.

<sup>&</sup>lt;sup>19</sup> 2011 IPO prospectus, pp. F-25,F-26, Notes 5 and 8

costs went up because the content was more data-rich, and carriers launched their own content platforms. The late 2000s became even tougher for SPs because of the proliferation of direct-to-CP payment options, such as Alipay. Alipay generally allows CPs to keep about 95% of the revenue, versus 60% to 80% for carrier billing through SPs. In order to determine how relevant the SP model is, we called approximately 300 SPs from a list of 1,800 SPs provided by MIIT. Approximately 50% of the SPs are out of business.

All of these facts beg the question "Why would NQ rely on SPs when SPs are dying businesses, and NQ could keep more money billing users directly?" Two more facts make this question even more important. NQ received its own SP license from MIIT in 2007, and thus would have no reason to deal through a tiny SP that is in perpetual need of interest-free loans from NQ.<sup>20,21</sup> NQ's investee company, and as of 2012, wholly-owned subsidiary, FL Mobile, received its Beijing SP license in 2010.<sup>22</sup> The answer to the question posed is that YDT is not a real company. Its purpose is to assist NQ in defrauding investors.

### YDT is really NQ.

In August, 2013, NQ blatantly lied to investors about the nature of its relationship to YDT. NQ was responding to a limited circulation research report that raised a number of questions about the Company, including its relationship with YDT.<sup>23</sup> YDT is one of the worst disguised related parties we have encountered in our years of trawling the sewers of US-listed China companies. The key is YDT's 75% owner, Ms. Rong Xu. Ms. Xu also previously worked at NQ.

YDT is clearly not a separate business from NQ. Undisclosed related parties are essential elements of China fraud.

- As of December 2011, the Guangdong branch of China Mobile showed YDT and NQ both as being based at NQ's Beijing office, with the same phone numbers, and the same contact person (Chen An An).<sup>24</sup>
- A list of service providers that China Mobile publishes for Fujian province listing of Service Providers show that YDT's telephone and fax numbers are (tel) 010-8565-5555 and (fax) 010-8565-5518. NQ's Chinese webpage lists those very same numbers as it main numbers on its Contact page.<sup>25,26</sup>
- YDT's email server is the exact same server as NQ's.

<sup>&</sup>lt;sup>20</sup> https://tsm.miit.gov.cn/pages/EnterpriseSearchList\_Portal.aspx?type=1&keyword=北京网秦天下科技 &pageNo=1

<sup>&</sup>lt;sup>21</sup>NQ 2011 IPO prospectus, p. 123, reads "Net revenues generated directly from China Mobile, as a percentage of our total net revenues, were 28% in 2008, 48% in 2009 and 10% in 2010."

<sup>&</sup>lt;sup>22</sup> http://www.miit.cc/verifyseal/105264.

<sup>&</sup>lt;sup>23</sup> J Capital Research, "NQ Not At Any Price," July 31, 2013.

<sup>&</sup>lt;sup>24</sup> Available as a downloadable spreadsheet at: http://gd.10086.cn/mwin/attachFileServlet?attachid=601100101410

<sup>&</sup>lt;sup>25</sup> http://www.fj.monternet.com/image/fj/ad/splist/sms12.htm

<sup>&</sup>lt;sup>26</sup> http://cn.nq.com/about/#tab5

C:\Users\ >ping mail.yidatone.com
Pinging mail.yidatone.com [211.151.59.9] with 32 bytes of dat Reply from 211.151.57.7. bytes-52 time=214ms TTL=46 Reply from 211.151.59.9: bytes=32 time=168ms TTL=46 Reply from 211.151.59.9: bytes=32 time=169ms TTL=46 Reply from 211.151.59.9: bytes=32 time=173ms TTL=46
Ping statistics for 211.151.59.9: Packets: Sent = 4, Received = 4, Lost = 0 <0% loss), Approximate round trip times in milli-seconds: Minimum = 168ms, Maximum = 214ms, Average = 181ms
C:\Users\ >ping mail.netqin.com
Pinging mail.netqin.com [211.151.59.9] with 32 bytes of data: Reply from 211.151.59.9: bytes=32 time=177ms TTL=46 Reply from 211.151.59.9: bytes=32 time=166ms TTL=46 Reply from 211.151.59.9: bytes=32 time=168ms TTL=46 Reply from 211.151.59.9: bytes=32 time=169ms TTL=46
Ping statistics for 211.151.59.9: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 166ms, Maximum = 177ms, Average = 170ms
C:\Users\

- The landline customer service number YDT provided to the Ministry of Information Industry and Telecommunications ("MIIT") is NQ's customer service number – NQ customer service representatives answer this phone when dialed.<sup>27</sup>
- Yidatong and NQ gave a Zhejiang government registry the same employee, Wang Qiu, as the official contact person. Wang Qiu must be a NQ employee, as both entities once again used NQ's phone number as the contact number.<sup>28</sup>
- The company information sheet in YDT's Shanghai SAIC files gives a NQ email address as the email contact: xuying@netqin.com. (Net Qin is NQ's former name, and netqin.com is one of NQ's domains.)
- NQ has repeatedly provided interest free loans to YDT totaling approximately \$5.0 million, despite YDT purportedly collecting money from carriers before sending a portion onward to NQ.

NQ also blatantly lied about the extent of YDT's majority owner, Ms. Rong Xu's, involvement with NQ, including the dates on which she became involved with NQ, and when she left. NQ's response stated the following:<sup>29</sup>

- Ms. Xu worked at NQ for less than six months, as marketing director, and then left NQ in 2007 in order to buy her stake in YDT;
- YDT is a separate and completely independent business from NQ; and
- NQ accounts for only 60% of YDT's revenue.

NQ has taken pains to convince investors that there was no overlap between Ms. Xu's time at NQ and YDT. In reality, Ms. Xu's involvement with NQ is not just overlap – it is entanglement.

<sup>&</sup>lt;sup>27</sup> http://bzxx.miit.gov.cn:8080/datainfo/miit/miit10079Details.jsp?affairl1=18

<sup>&</sup>lt;sup>28</sup> Source: Website of Zhejiang Communications Administration: http://www.zca.gov.cn

<sup>&</sup>lt;sup>29</sup> NQ "Response to J Capital Report, 'NQ Not At Any Price," August, 2013.

- Ms. Xu became involved with YDT far earlier than when NQ claims she left. In February 2006, Ms. Xu is shown as YDT's Executive Director – over one year before NQ claims she left in order to join YDT.<sup>30</sup> (Executive Director is the title commonly used when a company is small and only has one director.)
- Ms. Xu was director of a company that came to own 25% of NQ in 2006. In November 2006, a company of which Ms. Xu was (and still is) a director, Yiteng Beijing Technology Co. Ltd. came to own 25% of NQ.<sup>31</sup> One of the other Yiteng directors and shareholders is Ma Jun. Ma Jun is Ms. Xu's co-shareholder at YDT.

It is important to note that one of the present Yiteng shareholders is NQ co-founder Mr. Xu Zhou.<sup>32</sup> Mr. Zhou and Ms. Xu appear to have an exceptionally close relationship, which is essential to understanding her ongoing entanglement with NQ. Strangely, the month after Yiteng became a shareholder, Yiteng transferred its ownership to Mr. Zhou and three other individuals. We do not know how to interpret these actions, but it is clear that Ms. Xu is part of the inner circle of NQ, and not just the marketing advisor NQ claimed. One theory we have is that these people were figuring out how to structure the NQ fraud, and had a number of fits and starts.

- Ms. Xu became YDT's Legal Representative in February 2007; however, NQ awarded her stock options for her "services" in a company that was not established until March 14, 2007.<sup>33,34</sup>
- Ms. Xu was still a Senior Vice President at NQ well into 2008, approximately one year after NQ claims she left. A May 20, 2008 Sina.com news article about Red Cross benefit for earthquake victims shows a picture of <u>NQ Senior Vice President Ms. Rong Xu</u>. She was holding up a NQ sign as presented a donation.

The following is a relationship graph showing part of the web of NQ inner circle members:

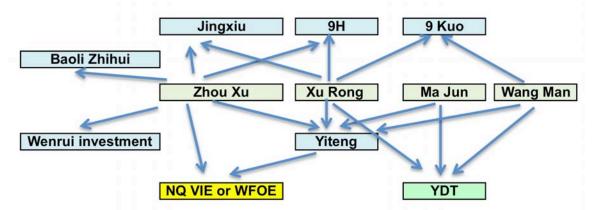
<sup>&</sup>lt;sup>30</sup> It is likely that she was a shareholder of YDT at this time, but our SAIC files do not show when she became a shareholder.

<sup>&</sup>lt;sup>31</sup> It owned 25% of Beijing NQ Technology Co. Ltd.

<sup>&</sup>lt;sup>32</sup> http://ir.nq.com/phoenix.zhtml?c=243152&p=irol-govboard

<sup>&</sup>lt;sup>33</sup> NQ 2011 20-F, p. 10.

<sup>&</sup>lt;sup>34</sup> e424b4, p. F-7



As shown in the graph above, Ms. Xu is involved in three companies with NQ co-founder and director Zhou Xu. It appears that Mr. Zhou and Ms. Xu presently share office space – we found an employment ad 9H placed in August 2013 in which the workplace address is the same as Mr. Zhou's office at Jingxiu. The two had an endearing microblog exchange just prior to NQ's IPO:

Mr. Xu Zhou, 5/3/2011:

Dear brothers and sisters, after sharpening our blade for ten years, today we entered NYC, my heart is pounding, awash in emotion, the great dream in my heart, friends fighting together shoulder by shoulder, there glorious future is before us, and in '13 you will see 9H.

Ms. Rong Xu reply, 5/4/2010:

5/5, IPO day in New York, overflowing with excitement, the red five-starred banner waving in the wind, and the traders are grinning. Family and dear friends lend support, keep the price up throughout the night, keep the numbers across screen continuously flashing green. We are rejoicing. We are moving down the path to success, a brilliant future is dawning - -- 9H is next, go go go!

In reality, NQ's carrier billing channel generated \$2.5 million to \$7.7 million in 2012, versus the \$27.9 NQ purports.

### NQ's Third Party Payment Channel is Non-Existent.

NQ's third party payment channel is non-existent and its China payment portal is purely cosmetic. We therefore extrapolate that this channel provides no revenue to NQ. We tried 59 times to make payments to NQ through third party payment services via NQ's payment portal (http://pay.nq.com), such as Alipay, TenPay, and banks between September 26<sup>th</sup> and October 18<sup>th</sup>. We were unsuccessful each time. (Note that Alipay and Tenpay are China's two largest third party payment services.)

We called Alipay and TenPay customer service twice for assistance, and none of them were able to make NQ's payment portal work. They all confirmed that the problem is with NQ, not their

service. Alipay customer service stated that NQ is not a partnering merchant, which contradicts NQ's claim that it partners with Alipay.<sup>35</sup> NQ also claims that Yeepay, which is not shown on NQ's site, is a payment partner. Yeepay confirmed that NQ is not a partner either. It is easy for businesses in China to open accounts with Alipay and Yeepay, and we are left to conclude that NO deliberately avoids doing so.

The NQ payment portal's lack of functionality is clear affirmation that NQ is a fraud. The cosmetic portal calls to mind John Hempton of Bronte Capital's exposé of Universal Travel Group (de-listed, formerly UTA). UTA had claimed to be one of the largest online travel booking sites in China. In reality, it was a Zero. Hempton attempted to use the slick-looking website to book travel, but was unable to complete his purchase because the website had no functionality. It was also purely cosmetic, and designed to fool US investors into thinking the business was real. NQ's portal appears to serve the same purpose – to provide legitimacy at a glance to investors and to its auditor. It does not process payments, and NQ's customers have not noticed because, by and large, they do not exist.

In committing fraud, it can be almost as important to avoid legitimate transactions as to record fake ones. We theorize that the reason NQ's payment portal does not work is that it would make it more difficult to fool its auditor if NQ were receiving legitimate payments from these payment processors, but in the trifling amounts that NQ would generate. If NQ is showing its auditor forged transaction documents from these payment processors, tiny monthly payments from the same payers hitting NO's account might get the auditor's attention. Bernard Madoff claims to have executed no real trades in his fraud – likely for this reason.<sup>36</sup>

Alexa data evidencing minimal traffic to the payment portal shows that nobody besides short sellers noticed the problem, despite NQ claiming to have approximately six million paying customers in China. We did not find any versions of NQ apps that allow for payment through third party payment processors. It is extremely unlikely that NQ has partnered directly with banks for payments because that would put NQ further ahead of most of China's third party payment processors.

We therefore extrapolate that the third party payment channel generates an immaterial amount of revenue for NQ.

NQ's claims that its security apps are on approximately 55% of smart phones in China is patently false.<sup>37</sup> Two independent market research firms have pegged NQ's market share as less than 35% - often much less.<sup>38</sup> Our own surveys conducted in three Tier 1 cities, one Tier 3 city, and one Tier 4 city, yield market share of only 1%. We estimate that NQ has no more than 250,000 (300 million smart phones times 1.4% times 50% active user ratio times 10% paying user ratio paving users in China, versus the approximately six million it purports to have.

<sup>&</sup>lt;sup>35</sup> NQ Mobile Investor Presentation 20130528, p. 13.

<sup>&</sup>lt;sup>36</sup> http://en.wikipedia.org/wiki/Madoff\_investment\_scandal <sup>37</sup>2012 20F.

<sup>&</sup>lt;sup>38</sup> iiMedia (Q2 2013) and RedTech (January 2011).

### NQ's China prepaid card channel does not contribute materially to revenue.

The purported combined amount of third party processor and prepaid card revenue in 2012 was somewhere between US\$4 million to \$10 million.<sup>39</sup> NQ does not break out how much was attributable to cards, versus third party channels. (Transparency is the enemy of fraud.) We concluded that third party payment channels contribute immaterial amounts of revenue. We conclude the same for NQ's prepaid card channel.

Prepaid cards consisted of scratch off cards and activation codes. Based on NQ customer service's difficulty in directing us to prepaid vendors in major cities, and our pre-installation channel checks, which show minimal penetration for NQ, we are skeptical that many (if any) retailers in China have access to NQ's access codes via automated systems or DVDs. Moreover, after we found the cards, we discovered that NQ only allows an account holder to use a prepaid card one time before being converted to carrier billing. That fact alone ensures that prepaid card revenue is insignificant.

<sup>&</sup>lt;sup>39</sup> Senior management comment.





We made four calls to customer service to inquire about where to buy prepaid cards in Beijing, Shanghai, Shijiazhuang (a large city near Beijing), and Guangzhou. In every case, including for Beijing (NQ's headquarters), customer service was unaware of whether there were sellers in those cities, and if so, who they are or where they were located. Prior to October 14, 2013, customer service was willing to go the extra mile to help find them, in two instances we received follow up calls/texts from customer service with more information. On October 10<sup>th</sup>, we received a text back from NQ customer service advising us of the location where we could buy the cards in Guangzhou. We received a separate call back from NQ's customer service regarding the Beijing distributor's retail location. We were told that the Beijing vendor is the only seller in the city, and that no distributors were operating in Shanghai or Suzhou. Additionally, their text message informed us that the Company was just in discussions with a distributor in Shijiazhuang (Hebei province) but that they were not able to sell cards at this time.

Despite apparently being NQ's exclusive vendor in Beijing, the seller is located in a spartan kiosk (B 1088) in the basement of a computer mall in the Zhongguancun section of Haidian

District, Beijing. (Of note, NQ's registered addresses for the WFOE and VIE are also in Zhongguancun.) This seller sells no products or services except for NQ cards, although the stand appears to be under common ownership with the kiosk on its right, which sells HTC, Android, Samsung, Sony, and Apple products.

Whereas the Beijing seller's kiosk embraced a minimalist aesthetic, the Guangzhou seller looks like a Costco, featuring a virtual cornucopia of products available for sale. The Guangzhou seller occupies a roughly 100 square foot stall in a computer mall on the first floor of the Haiyin Center in Guangzhou's Dongshan district, but every square inch is packed with merchandise, most of which is jewelry, scarves and cell phone accessories staffed by a father/daughter team.



### Sellers report very few sales.

We interviewed both vendors about the prepaid cards and learned that neither sells very many cards, and neither thought there were other vendors nearby.<sup>40</sup> The Guangzhou seller said she was not sure whether there were other distributors nearby, but did not think that many other retailers would be interested in selling these cards because the profit margin is low.

The Beijing seller echoed the Guangzhou seller, stating that while there were some sales, they do not sell a lot, and not for much profit. Mr. Zhang, the vendor, indicated people who do buy tend to be customers who already knew the product. Potential customers look and leave, apparently because they do not seem to understand the product. When asked how they came to sell NQ's prepaid cards, Mr. Zhang explained that they are old friends of the family, and they do it to "help them out".

<sup>&</sup>lt;sup>40</sup> In China vendors of a specific product type typically group together and a popular product will quickly spread throughout a marketplace and to other similar markets as well.



The one-year prepaid NQ card (above, left) is a dead giveaway that hardly anybody ever buys these cards. The sell thru rate of these cards appears to be very low as the cards on the left still bear the old logo. NQ announced its new logo on June 11, 2011; therefore, these cards are well over two years old.<sup>41</sup>

The RMB 13 cards contain an interesting clue. The bottom left corner (difficult to see in the photo) contains the logo for the company that owns the kiosk, Beijing Huahui Yunzhen. Huahui appears to be a tiny company, yet NQ printed up numerous cards with that logo. That indicates that as insignificant as Huahui is, it occupies a rarified place in the pantheon of NQ's business partners.

While conducting this research we learned that NQ produces prepaid phone cards for China Mobile that enable anonymous calling – these are most likely to be used by telephone spammers. (See *The Farcical Side*.) On the right of Mr. Zhang's display case are branded prepaid NQ app cards, and in the middle are the unbranded anonymous calling cards.

NQ's lack of physical presence and virtually non-existent effort to update its merchandise, or build out its retail distribution are a clear sign their fraud is not focused on Chinese consumers, but rather US investors.

We proverbially poked NQ with a stick in the prepaid card area in order to observe how it reacts. As we expected, the reaction was interesting. An investor recently asked NQ investor relations (on our behalf) for names and addresses of some card and code resellers to secretly shop. At the same time, we were regularly calling customer service asking for card vendor information. Our

<sup>&</sup>lt;sup>41</sup> http://www.chinascopefinancial.com/en/news/post/12668.html

impression is that customer service gets few calls overall, and that calls about prepaid cards are far rarer. Investor relations had seemed willing to arrange appointments with purported vendors, but as any investor who was burned in companies such as China Biotics and China MediaExpress will attest, such prearranged meetings can easily be frauds as well. The investor responded by asking for names and contact information so that we could secretly shop the vendors. Investor relations has not responded.

After asking investor relations for information on China prepaid card sales and sellers, customer service began refusing to discuss prepaid cards. October 14, 2013, we called customer service again to inquire about card sellers in other cities. The service representative said to us that they only provide technical support for the products and do not engage in sales, instead kept referring the customer to other sales channels. While on the surface this response appears relatively benign, their prior willingness to help check, identify, and contact us through follow-up communication was noticeably absent. We believe this was a result of a corporate directive to forbid further disclosure of details on the Company's prepaid card distribution (or lack thereof). This lasted for a few days. Then customer service changed its tune again, urging callers to buy prepaid cards for China Mobile, China Unicom, and China Telecom to pay for NQ apps. We believe that NQ was preparing for being exposed as having no real prepaid card sales by being able to retort "You do not understand our business; prepaid cards also include carriers' cards". To the extent this is true, it is a payment method only a few days old.

# NQ's online (lack of) card sales affirms our physical store checks that show the cards are obscure and immaterial to NQ revenue.

Taobao Marketplace is owned by Alibaba, and is a very large, reputable website in China similar to both Ebay and Amazon.<sup>42</sup> It dominates China's online B2C and C2C markets. We found only three sellers of NQ prepaid cards listed on Taobao Marketplace, and we believe two of these sites belong to the Beijing NQ Card Distributor. All three sites show meager sales at best. (Consistent with our view that the anonymous phone cards are not a Kosher business in China, there seem to be no NQ anonymous card sellers on Taobao.) One of the sellers, "NQ Card Agent" prominently displays a card with the old logo.

Taobao also provides seller data analytics. Below is the sales data for the three sellers. Beijing Huahui Yunzhen is the kiosk we visited in Beijing. The Beijing NQ card distributor sells not just NQ products but also cell phone recharge cards. Of the prior six months' 48 reported sales, only 11 sales were for NQ cards. NQ Card Agent's Taobao year-to-date sales are only 348.5 RMB, approximately \$57.13 (fifty seven dollars and thirteen cents). Performance at their sister company was equally dismal. The Guangzhou kiosk has not made a single sale on Taobao since April of this year.

<sup>42</sup> http://en.wikipedia.org/wiki/Taobao

	NQ Card Agent NQ点卡代理 (花辉云臻)			ahui Yunzhen 半辉云臻	Guangzhou Lixingjing 广州利行景		
	NQ Card Sales (#)	NQ Card Sale Value (RMB)	NQ Card Sales (#)	NQ Card Sale Value (RMB)	NQ Card Sales (#)	NQ Card Sale Value (RMB)	
Oct.	0	0.0	0	0.0	0.0	0.0	
Sept.	0	0.0	0	0.0	0.0	0.0	
Aug.	1	32.0	0	0.0	0.0	0.0	
July	2	42.5	1	18.5	0.0	0.0	
June	2	64.0	7	154.0	0.0	0.0	
May	6	103.5	2	50.5	0.0	0.0	
April	0	0.0	2 59.8		0.0	0.0	
March	1	10.5		cked back to	1.0	32.0	
Feb.	1	32.0	4/2.	3/2013	0.0	0.0	
Jan.	2	64.0			1.0	32.0	
Dec.	0	0.0			0.0	0.0	
Nov.	Data check				3.0	978.5	
Oct.	12/18/	/2012			0.0	0.0	
Sept.					6.0	1078.9	
Aug.					12.0	3038.0	
July					5.0	146.5	
June					0.0	0.0	
May					12.0	3141.9	
April						hecked back to 5/14/2012	
Total	15	¥348.50	12	¥282.80	40	¥8,447.80	

A review of rough comparables on Taobao further suggests that the online market for premium or even moderately priced mobile phone software for Chinese consumers is very small, and pricing is competitive. (Free-ware remains by far and away the most popular choice.) Over the past month, the number one and number two leading sellers were retailing their paid software for just RMB 5 (US\$0.82). Kasperski's RMB 1.3 (US\$0.21) security software managed only three sales. All others posted numbers in low single digits or sold nothing at all.

NQ's physical and online presence in China is at best anemic. NQ's inability to cultivate a sales ecosystem suggests that neither retailers nor consumers are interested in selling or buying NQ products.

## NQ is an Obscure Company in China with Minimal Brand Recognition; Our Research Estimates that Fewer than 1.5% of Smart Phone Owners Presently have a NQ Security App.

Muddy Waters's survey-based market research estimates that NQ's actual share of the China security app market is 1.4%, versus NQ's purported approximate share of approximately 55%. Based on our research, we estimate that NQ has fewer than 250,000 paying customers in China, versus its claim of six million. (This yields revenue of approximately \$2.5 million, versus the \$32.2 million NQ purports to generate.) NQ, its competitor QIHU, and some market research firms have cited various market share studies that have very different results. NQ's latest claims are that its share of the China security app market is approximately 55%. On the other hand, QIHU claims that its market share is 70%.<sup>43</sup> We came across research by iiMedia that shows NQ's market share is only 7.2%.<sup>44</sup> We set out to settle the question of which research (if any) is likely to be accurate by conducting surveys of smart phone owners.

Our research shows that NQ's China market share claims of approximately 55% are ludicrous, as are its claims of having approximately six million paying users. Our surveys of over 800 respondents from five cities show that NQ's share of the China mobile security app market is only 1.4%. In contrast, Qihoo 360 Technology Co. Ltd. (NASDAQ: QIHU) has 73.5% market share in our survey, followed by Tencent Holding Ltd. (HK: 700) at 15.7%, Kingsoft Corp. Ltd. (HK: 3888) at 4.9%, and "other" at 3.8%.

As we show in the pie charts on the next page, NQ's (lack of) market share was remarkably consistent across the Tier 1, Tier 3, and Tier 4 cities. QIHU is dominant across all cities we surveyed, but has given more ground to Tencent in Tier 1 cities than in the Tier 3 and 4 cities we surveyed. Overall, 58.8% of respondents had some form of security, antivirus, or data protection software on their phones.

NQ might criticize our survey sample as being too small to be significant; however, this sample size is large enough to reject with 95% confidence a null hypothesis of NQ's market share being far, far lower than NQ claims. The key is the massive delta between what NQ claims and what we found. There is no way to bridge that gap.

NQ might criticize our survey sample as being geographically flawed – in other words, we did not conduct surveys in the markets in which NQ is strongest. This criticism would not hold water though. The product at issue is distributed over the mobile Internet. There are likely some variations in NQ's market share from city to city, but given the roughly 60 percentage point delta, rejecting our findings for geographical reasons would be a de facto argument that there are special places in China that are connected to a very different mobile internet. Moreover, NQ has refused to disclose any information on where in China it actually has market share. A longoriented recently investor asked NQ investor relations director Matt Mathison for some – any – detail on where NQ's market presence is strongest. Mr. Mathison replied that NQ does not disclose this information. (Transparency is the enemy of fraud.)

<sup>&</sup>lt;sup>43</sup> QIHU 2012 20-F, p. 27.

<sup>&</sup>lt;sup>44</sup> Q2 2013.

With NQ refusing to provide any detail on its China markets, we chose three of the four Tier 1 cities: Beijing (NQ's hometown), Shanghai, and Shenzhen. We then chose two cities in Zhejiang province as the respective representative Tier 3 and Tier 4 cities: Ningbo and Huzhou. We chose Zhejiang because it was the most pro-NQ means we could think of doing the survey. NQ previously announced its first major nationwide sales promotion and established an agreement with the Zhejiang-branch of China National Postal and Telecommunications (PTAC) to pair up NQ software with 3G cell phones PTAC was distributing.<sup>45</sup> Ningbo (about 2.5 hours drive from Shanghai) has a population of 7.6 million, 3.5 million of whom reside in the urban areas.<sup>46</sup> Ningbo's 2011 per capita GDP was RMB 79,500 (Shanghai's was RMB 82,600).<sup>47</sup> Huzhou (about one hour drive from Shanghai) population is 2.6 million, with an urban population of 1.1 million.<sup>48</sup> Huzhou's 2011 per capita GDP was RMB 58,500.<sup>49</sup>

If NQ wants to dispute our conclusion that it has laughably low penetration rates in China, actions speak louder than words. Investor relations should refrain from hemming and having about the samples we have taken, and tell us exactly where in China NQ has high penetration rates. Anything else NQ says to try to refute this point is a waste of toner.

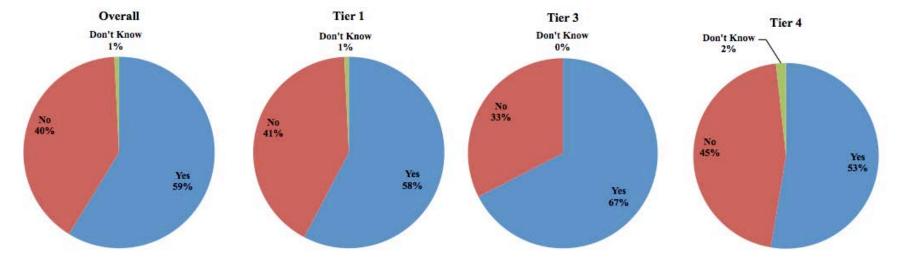
<sup>&</sup>lt;sup>45</sup> "3G leads to an explosion in the security market! Cell phone security software suites are on fire!," July 22, 2009, http://www.enet.com.cn/article/2009/0722/A20090722505055.shtml.

<sup>&</sup>lt;sup>46</sup> http://en.wikipedia.org/wiki/Ningbo

<sup>&</sup>lt;sup>47</sup> http://en.wikipedia.org/wiki/List\_of\_prefecture-level\_cities\_by\_GDP\_per\_capita

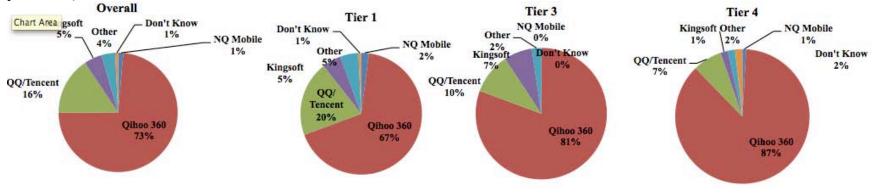
<sup>&</sup>lt;sup>48</sup> http://www.at0086.com/Huzhou/

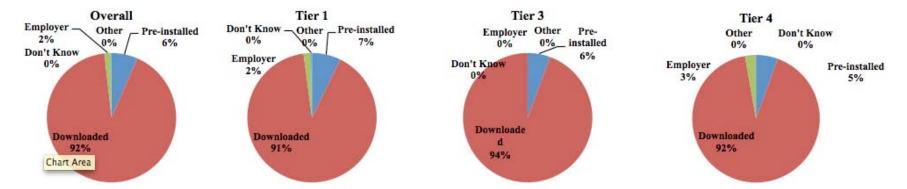
<sup>&</sup>lt;sup>49</sup> http://en.wikipedia.org/wiki/List\_of\_prefecture-level\_cities\_by\_GDP



Q: Does your mobile phone have any security, antivirus, or data protection software? (Multiple choice.)

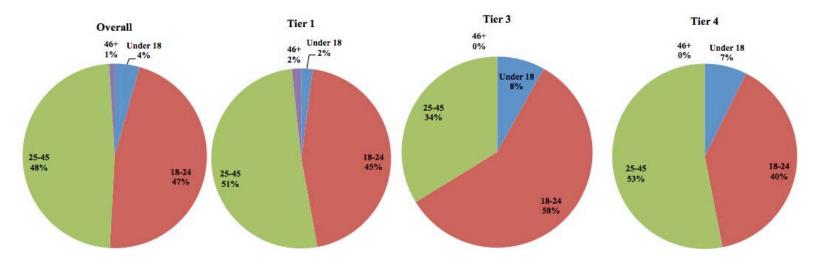
Q: Which company's security, AV, data protection app is on your mobile phone? (Multiple choice, more than one selection permitted.)





Q: How was the app installed on your phone? (Multiple choice.)

Q: What is your age? (Multiple choice.)



Note that pre-installations account for only 6.5% of the apps on phones. On one hand, this suggests that pre-installations are irrelevant to market share. Another interpretation is that NQ's claims about its pre-installations are exaggerated. Based on our retail channel checks (infra), NQ is just as obscure at retail as on users' smartphones.

NQ's massively exaggerated claims about its market share started with a Frost & Sullivan report from late 2010 or early 2011 (the period during which NQ was in late stage preparations for its IPO).<sup>50</sup> The Frost report estimated that NQ had 67.7% market share in 2010. We believe that NQ paid for this report, and that the research methodology did not involve collecting data from users. We believe that the methodology instead was a combination of accepting NQ's data at face value, and speaking with industry parties friendly to NQ. Since then, NQ has primarily relied on research from a firm called Sino MR to support its market share claims. We do not believe the Sino MR research is remotely credible, as we are skeptical of Sino MR's ability to manage the conflict of interest – let alone keep a straight face when discussing conflict management.

### Retailer Visits Further Confirm that NQ has a Sliver of the Market Share it Claims.

Our examination of 113 phones at various stores across five cities in China concluded that NQ's pre-installation or bundled software channel is close to being non-existent as of Q3 2013 in Beijing, Guangzhou, Shanghai, Shenzhen, and Shijiazhuang (Hebei province). This does not mean that this channel did not exist before, but it is actually the behavior of software providers such as NQ (the 315 incident) that has resulted in less software being bundled because handset manufacturers and operators have realized bundling can damage their businesses. It is also easier than ever before to download apps, and some handset manufacturers have their own branded apps.

54.0% of the phones we checked had no anti-virus software on them, and only four out of 113 phones had NQ installed. Two of the phones (Samsung) were bought in Beijing and had originally been display phones. All other phones of the same model in that store had no NQ software bundled with it. All of the NQ bundled phones with the exception of one had also had additional antivirus software on it from Tencent. We therefore theorize that NQ employees paid store employees to install the software.

### China App Store Download Data Confirm that NQ has a Sliver of the Market Share it Claims.

The below download numbers come from two of China's largest independent app stores, Wandoujia and 91 Zhu Shou, and show that NQ has miniscule market share. NQ's "Likes" as a percentage of comments (29.66%) is among the lowest on the list, and compares unfavorably to QIHU's 360 Mobile Phone Guard at 92.84%.

<sup>&</sup>lt;sup>50</sup>http://www.netqin.com/upLoad/File/en/China%20Mobile%20Security%20Market%20Research%20Report\_final.p df

	Wandoujia T	op 25 Mobile	Security	Apps (Oct.	20, 2013	)				
	······································	Total		Downloads	% of	Total	% of Total		# of	Likes /
Chinese Name	English Translation	Downloads	% of Total	This Week	Weekly	Installations	installations	# of Likes	Comment	Comment
360手机卫士	360Mobile phone guard	51,690,000	46.05%	300,000	48.96%	86,320,000	31.45%	5,235	5,639	92.84%
腾讯手机管家	Tencent phone housekeeper	21,560,000	19.21%	97,000	15.83%	64,610,000	23.54%	16,581	22,026	75.28%
授权管理(Superuser)	Authorization management (Superuser)	8,640,000	7.70%	9,280	1.51%	30,310,000	11.04%	901	1,180	76.36%
LBE安全大师	LBE security master	5,690,000	5.07%	77,000	12.57%	6,550,000	2.39%	4,848	7,297	66.44%
安全管家	Security steward	4,060,000	3.62%	11,000	1.80%	3,440,000	1.25%	585	1,009	57.98%
一键安全root工具	One key securiy root tool	3,400,000	3.03%	5,572	0.91%	1,830,000	0.67%	261	1,840	14.18%
金山手机卫士	Jinshan mobile guards	3,330,000	2.97%	16,000	2.61%	3,560,000	1.30%	682	973	70.09%
QQ安全中心	QQ security center	3,000,000	2.67%	22,000	3.59%	9,510,000	3.46%	6,175	6,929	89.12%
小米百变锁屏	MIUI Lock screen	1,670,000	1.49%	6,023	0.98%	11,320,000	4.12%	335	858	39.04%
360安全通讯录	360 security address book	1,450,000	1.29%	4,730	0.77%	4,440,000	1.62%	207	268	77.24%
金山手机毒霸	Jinshan phone DuBa	1,290,000	1.15%	18,000	2.94%	15,070,000	5.49%	1,881	1,954	96.26%
360手机卫士 MTK6573双卡)	360 mobile guards MTK6573 double card version	1,120,000	1.00%	15,000	2.45%	15,750,000	5.74%	232	336	69.05%
McAfee手机杀毒	McAfee mobile security	610,000	0.54%	1,365	0.22%	2,420,000	0.88%	52	118	44.07%
360手机卫士 联想乐Phone版	360 mobile guards lenovo Phone version	580,000	0.52%	1,747	0.29%	660,000	0.24%	58	135	42.96%
应用锁	Application lock	510,000	0.45%	1,736	0.28%	450,000	0.16%	247	390	63.33%
网泰安全	NetQin security	470,000	0.42%	479	0.08%	4,420,000	1.61%	441	1,487	29.66%
一键锁屏	One key lock screen	440,000	0.39%	1,287	0.21%	630,000	0.23%	136	324	41.98%
指纹屏保	Fingerprint screen saver	400,000	0.36%	2,397	0.39%	270,000	0.10%	36	288	12.50%
安卓卫士	Android guard	390,000	0.35%	2,718	0.44%	150,000	0.05%	36	103	34.95%
360浏览器	360 browser	370,000	0.33%	241	0.04%	170,000	0.06%	76	130	58.46%
ET私密镇	ET private lock	350,000	0.31%	845	0.14%	410,000	0.15%	65	194	33.51%
凯立德移动导航系统	52559 •• CONSTRUCTION CONTENT									
Android零售版	Navione mobile navigation system (retail version)	330,000	0.29%		0.00%	2,430,000	0.89%	256	224	114.29%
安医生	Dr. An	330,000	0.29%	4,445	0.73%	1,540,000	0.56%	188	384	48.96%
乐安全	Le security	330,000	0.29%	12,000	1.96%	7,990,000	2.91%	662	813	81.43%
安卓优化大师HD版(for pad)	KaiAnZhuo optimization master HD version (for pad)	240,000	0.21%	1,881	0.31%	250,000	0.09%	14	39	35.90%
Total		112,250,000	100.00%	612,746	100.00%	274,500,000	100.00%			

We estimate that about 80% of the comments on Wandoujia regarding NQ are negative. Some of the more commonly used adjectives are "gangster (流氓)", "brute (禽兽)", "garbage (垃圾)".<sup>51</sup> A number of commenters wondered how NQ has been able to survive. Here are some of the ones that we found more pertinent to show users' opinion of the product.

Note that 91 Zhu Shou is owned by BIDU, which has an acrimonious relationship with QIHU, which is likely the reason that QIHU is not offered in the store.

<sup>&</sup>lt;sup>51</sup> One of our native Chinese speakers learned some new unflattering English adjectives by reading the reviews, and having to translate them.

71 2.11	a Shou Top 25 mobile Secur	ny npps (ocu	20, 2013)
		Downloads	% of Total Downloads
腾讯手机管家	Tencent Mobile Manger	52,850,000	53.96%
摩安卫士	MOAN guard	9,860,000	10.07%
金山手机毒霸	Jinshan phone DuBa	5,180,000	5.29%
ROOT授权管理	ROOT authorization management	5,000,000	5.10%
91智能锁	91 intelligent lock	4,920,000	5.02%
QQ安全中心	QQ security center	3,720,000	3.80%
安兔兔系统评测	AnTutu system evaluating	2,590,000	2.64%
LBE安全大师	LBE security master	2,100,000	2.14%
金山手机卫士	Jinshan mobile guards	1,950,000	1.99%
海卓HiAPN	Haizhuo HiAPN	1,390,000	1.42%
乐安全	Le security	1,380,000	1.41%
瓦力流量仪	Wall-e flow meter	1,250,000	1.28%
网秦安全	NQ security	980,000	1.00%
手机一键清理	One key cleaning	900,000	0.92%
安医生	Dr. An	730,000	0.75%
金山清理大师	Jinshan cleaning master	730,000	0.75%
安兔兔硬件检测	AnTutu hardware detection	590,000	0.60%
百度一键root	Baidu one key root	580,000	0.59%
超级用户增强版	Superuser Enhanced version	530,000	0.54%
XDA助手	XDA assistant	440,000	0.45%
android助手	android assistant	280,000	0.29%
超级权限	Super authority	N/A	N/A
安卓桌面文件管理	Android desktop file management	N/A	N/A
迈克菲手机杀毒	McAfee Mobile Security	N/A	N/A
Total		97,950,000	100.00%

## 91 Zhu Shou Top 25 Mobile Security Apps (Oct. 20, 2013)

NQ recently addressed the paucity of downloads in these stores with a non sequitur:

"For example, if an analyst tried to verify market share data for handsets in China and surveyed 1000's of people in the streets of Beijing or Shanghai, they might find results that would show 65% of users have Samsung-branded phones while 35% have Apple's iPhone. One might conclude from this faulty sampling methodology that there is no way that Huawei, ZTE, Lenovo, or Xiaomi would have the kind of market share that actually exists."<sup>52</sup>

These two stores represent over 200 million downloads of security apps, including significant downloads of apps produced by the clear market leaders, QIHU and Tencent. Again, it seems NQ wants investors to accept that there are places in China with their own very special mobile internet, and users who are super motivated to seek out NQ.

<sup>&</sup>lt;sup>52</sup> NQ "Response to J Capital Report Titled, 'NQ: Not At Any Price,'" August, 2013, p.2.

# NQ's SAIC Financials are Fraudulent, Leading to Fraudulent SEC Financials

NQ's SAIC financial statements largely match those in its SEC filings; however, NQ's SAIC financials are fraudulent. This means that NQ's SEC filing financials are also fraudulent. A company prepares its GAAP and tax financials from the same set of books. In the PRC, companies are required to file PRC GAAP financial statements to SAIC. If the SAIC financials are fraudulent, then the books from which they are drawn are as well. In the case of a US-listed public company, the fraudulent books form the basis for the SEC financials. Therefore, fraudulent SAIC financials tell us that SEC financials are also fraudulent.

Of course we know that NQ's financials are fraudulent from having observed the Yidatong fraud, customers' inability to pay through NQ's payment portal, NQ's miniscule prepaid card sales, and the barely-existent position NQ occupies in the China market. Putting those elements aside and assuming no pre-existing knowledge of NQ's fraud, NQ's SAIC financials contain significant indicia of fraud.

Chinese media called NQ's SAIC financials into question the day before NQ's IPO. The 21<sup>st</sup> Century Business Herald (often referred to as "The Wall Street Journal of China") published an article titled "Netqin investigation, the night prior to public listing - inflated sales proceeds".<sup>53</sup> The article noted that while NQ's 2009 SAIC financials matched its prospectus, its 2008 SAIC financials showed revenue that was only a fraction of what the prospectus claimed. (We presume that in the chaotic pre-IPO environment, the parties responsible for executing the fraud overlooked 2008 SAICs.)

Certain of NQ's tax disclosures and accounting are significant indicia of fraud and fraudulent SAIC financials. (These misses also evidence a sloppy audit – see NQ's Filings Make Clear that PwC's Audits Were Sloppy.)

Bungled tax treatment is common in China frauds. Accounting for a fraud is much harder than accounting for a legitimate business.<sup>54</sup> Business accounting is a largely rote exercise – accountants are merely documenting historical facts. On the other hand, fraud accounting requires imagination and the ability to organize a complex web of lies, on top of business accounting skills. Few book cookers are perfect, and one of the most common areas in which they make mistakes is in accounting for taxes on revenue and income. China's tax laws and regulations are complex and rapidly changing. There is a constant stream of national, provincial, and local preferences coming into effect and expiring. We noted significant tax accounting problems in frauds perpetrated by CCME, DGW, RINO, and TRE.

China frauds tend to claim tax preferences for which they are not eligible. One staple of audits in China is tax payment documentation. Frauds can forge payment documentation, but motivated auditors can spot forged tax payment docs if they diligently seek to confirm their

<sup>&</sup>lt;sup>53</sup> "Netqin investigation, the night prior to public listing - inflated sales proceeds," *21<sup>st</sup> Century Business Herald*, March 26, 2011.

<sup>&</sup>lt;sup>54</sup> Conversely, building a successful fraud is much easier than building a successful business.

authenticity. (Many China auditors are neither motivated nor diligent.) Another option frauds have is to actually pay taxes commensurate with their fraudulent financials. This method is obviously costly, and is often not worthwhile. The best method we have observed so far is to claim tax treatment that precludes the need to pay much in the way of tax. Many China auditors seem either to miss that the claimed preferences do not apply to their clients, or believe in a Guanxi Fairy that bestows extralegal tax treatment on the company from the local tax bureau.

After analyzing NQ's SEC filings and SAIC files, we believe that NQ made a number of tax errors in the filings for its Wholly Foreign-Owned Enterprise ("WFOE") NQ Beijing, FL Mobile, and NationSky because NQ's internal and SAIC financials are fraudulent. We explain those errors in Appendix B.

# NQ's Antivirus 7.0 Makes it Easy for the PRC Government and Hackers to Read Copious Amounts of Sensitive Data, and to Upload Malware to Users' Phones

MW engaged a team of top-flight specialized software engineers to analyze potential vulnerabilities in NQ's Antivirus 7.0. Both they and we were shocked a) at the amount of sensitive data (including location data) the app collects, b) by the fact that it sends much of this sensitive data to its server in China, c) by the fact that it also sends this data onward to a Chinese analytics company, d) that the uploaded data is extremely poorly protected (the engineers opined that the lack of protection could be deliberate), and e) that due to the lack of basic safeguards on downloaded data, users' phones can easily be loaded with malware by third parties. The elephant in this room of course is the Chinese government and "The Great Firewall of China" that reads and records all data going into and out of the country. The encryption AV 7.0 uses is pointless because it includes the key with the data it is encrypting, which is akin to leaving the key hanging out of a safe.

All mobile apps need to secure the transmission of information and the information being transmitted in order to provide basic protection to the user. This is typically accomplished by using standard technologies and techniques, some of which include HTTPS, SSL/TLS, and digitally signing the payload being transmitted. These techniques authenticate the server and the payload to the user, and prevent hackers from inserting themselves between the company and the users by using Man in The Middle attacks (MITM).

NQ Antivirus 7.0 does not adhere to these technologies, techniques or any other best practices. For some uploads, NQ "Gzips" the data and relies on an encoding technique using XOR (0x6e) instead of encryption. Without encryption, all of the data NQ admits to gathering in their privacy policy is uploaded to servers in China as near plain text. Other data is encrypted; however, it includes the key used to encrypt the data as a simple encoded string broadcast along with the payload, making the encryption nearly worthless. The data so "protected" includes:

"SMS, MMS, Email, Contacts, call log, call conversation, location information, phone number, the IMSI, the IMEI, the ICCID, the ESN and the model of the phone, the

software that is installed and apps that are running in the phone, and information about analytics on your operation, your favorites, network connection and downloading."<sup>55</sup>

This means that all of the above user details are vulnerable to hackers sniffing the network between the user and NQ's Chinese servers, and the Chinese government. NQ sends the data as well to TalkingData.net, which is a Chinese data analytics service.

When downloading data from the server, NQ does not use HTTPS or SSL. The result is that NQ users are vulnerable to Man in the Middle ("MITM") attack, a technique wherein a hacker impersonates the NQ server and intercepts all of the above listed data the app broadcasts. NQ does encrypt the data transmission from server to app, however it includes the key used to encrypt the data as a simple encoded string broadcast along with the payload, making the encryption nearly worthless.

By modifying their host file, our engineers were able to perform a MITM attack against themselves and discovered an additional special command that directs the application to download and execute any file from any server on the device.

Rounding out our analysis of the app / server communication protocol failures, we note that NQ does not sign its downloads. Without a digital signature, the user app has no way of authenticating the download or ensuring that it came from anyone other than NQ.

The engineers' report with details on the app, server and payload failures of NQ Antivirus 7.0 are available in Appendix C.

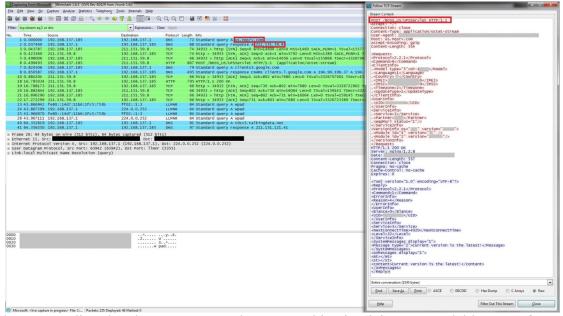
	-	oft [Wireshark 1.6.5 (SVN Rev 40429 from	/trunk-1.6)]	_	
<u>File</u> <u>E</u> dit	View Go				
	11011 20	Capture Analyze Statistics Telephony	<u>T</u> ools <u>I</u> nternals <u>H</u> elp		
	M 🖬 🕅	■ <b>Z</b> × 2 ≜   <	ə 🕈 👱 🗐 🖬 🛛 Q	Q Q 🗹	🖉 🕺 🎭   🧝
Filter: top	p.stream eq 1 o	r dns	Expression Clea	ar Apply	
No.	Time	Source	Destination	Protocol Le	angth Info
1	0.000000	192.168.137.185	192.168.137.1	DNS	72 Standard query A us.ngsrv.com
2	0.037460	192.168.137.1	192.168.137.185	DNS	88 Standard query response A 211.151.59.8
3	0.043787	192.168.137.185	211.151.59.8	TCP	74 34933 > http [SYN] seg=0 win=14600 Len=0 MSS=1460 SACK_PERM=1 TSva]=1557
4	0.423360	211.151.59.8	192.168.137.185	TCP	74 http > 34933 [SYN, ACK] Seq=0 Ack=1 win=5792 Len=0 MSS=1380 SACK_PERM=1
5	0.498006	192.168.137.185	211.151.59.8	TCP	66 34933 > http [ACK] seq=1 Ack=1 win=14656 Len=0 Tsval=155866 Tsecr=332670
6	0.499493	192.168.137.185	211.151.59.8	HTTP	867 POST /BOSS_US/UPSServlet HTTP/1.1 (application/octet-stream)
7	0.824506	192.168.137.185	192.168.137.1	DNS	79 Standard query A clients3.google.com
8	0.850587	192.168.137.1	192.168.137.185	DNS	495 Standard query response CNAME clients.l.google.com A 194.90.196.37 A 194
10	0.884204	211.151.59.8	192.168.137.185	TCP	66 http > 34933 [ACK] Seg=1 Ack=802 Win=7680 Len=0 TSval=3326707001 TSecr=1
18	16.785034	211.151.59.8	192.168.137.185	HTTP	795 НТТР/1.1 200 ОК
19	16.788173	211.151.59.8	192.168.137.185	тср	66 http > 34933 [FIN, ACK] Seq=730 Ack=802 Win=7680 Len=0 TSval=3326722902

Data being sent to NQ's server in China

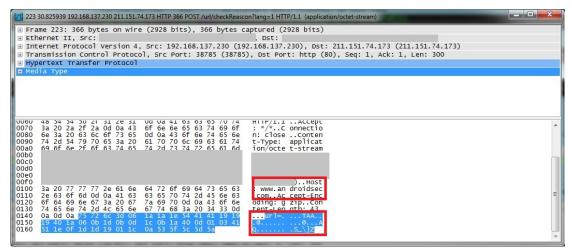
20 745 54.699254 192168.137.235 211.151.121.41 HTTP 536 POST /g/d HTTP/11 (application/unpack_chinar)	
Frame 745: 536 bytes on wire (4288 bits), 536 bytes captured (4288 bits)	
Ethernet II, Src: , Dst:	
B Internet Protocol Version 4, Src: 192.168.137.235 (192.168.137.235), Dst: 211.151.121.41 (211.151.121.41)	
B Transmission Control Protocol, Src Port: 46194 (46194), Dst Port: http (80), Seq: 537, Ack: 1, Len: 482	
Source port: 46194 (46194)	
Destination port: http (80)	
[Stream index: 21]	
Sequence number: 537 (relative sequence number)	
[Next sequence number: 1019 (relative sequence number)]	
Acknowledgement number: 1 (relative ack number)	
Header length: 20 bytes	
B Flags: 0x18 (PSH, ACK)	
window size value: 14600	
[Calculated window size: 14600]	
[window size scaling factor: -2 (no window scaling used)]	
B Checksum: 0x0072 [validation disabled]	
B [SEQ/ACK analysis]	
TCP segment data (482 bytes)	
B [2 Reassembled TCP Segments (1018 bytes): #744(536), #745(482)]	
Bypertext Transfer Protocol	
POST /g/d HTTP/1.1\r\n	
□ Content-Length: 881\r\n	
[Content length: 881]	
Content-Type: application/unpack_chinar\r\n	
Host: tdcv3.talkingdata.net\r\n	
Connection: Keep-Alive\r\n	
\r\n	
[Full request URI: http://tdcv3.talkingdata.net/g/d]	

<sup>&</sup>lt;sup>55</sup> http://www.nq.com/privacy

## Data being sent to China-based analytics company Talking Data



The app sending the phone's IMEI and IMSI to China in plain text, readable XML format.



All user URL and browsing history is sent to China unencrypted, and easily decoded.

Capturing from Micro	soft [Wireshark 1.6.5 (SVN Rev 404	29 from /trunk-1.6)]	_		74 Python Shell - C X			
Eile Edit View Go	Capture Analyze Statistics Tele	phony Iools Internals Help			File Fait Shell Debug Options Windows Help			
			00		<li>seackgrouna)k</li>			
₩₩₩₩ =;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;								
Filter: tcp.stream eq 2 c	or dns	<ul> <li>Expression Cli</li> </ul>	ear Apply		<pre></pre> > <td>date:</td>	date:		
No. Time	Source	Destination	Protocol	Length Info	45cae157d			
	192.168.137.185	192.168.137.1	DNS	80 Standard query A ms-cn.nqsecurity.com	01796a0a2 s3ae52203daecc928			
	192.168.137.1	192.168.137.185	DNS	180 Standard query response A 211.151.59.	efee21585 88478464cb958af75			
	192.168.137.185	211.151.59.57	TCP	74 59344 > http [SYN] Seq=0 win=14600 Ler				
	211.151.59.57	192.168.137.185	TCP	74 http > 59344 [SYN, ACK] Seq=0 Ack=1 w		5984		
	192.168.137.185	211.151.59.57	TCP	66 59344 > http [ACK] seq=1 Ack=1 win=144	ed291c0dc			
	192.168.137.185 192.168.137.185	211.151.59.57 211.151.59.57	TCP HTTP	1434 [TCP segment of a reassembled PDU] 167 POST /BOSS_CS_AV_V4/app.htm HTTP/1.1	9ec042c25 2556c8f3ed7b34			
	211.151.59.57	192.168.137.185	TCP	66 http > 59344 [ACK] seg=1 Ack=1369 win	af20e6255 17765235bbb3dc77a			
	211, 151, 59, 57	192.168.137.185	TCP	66 http > 59344 [ACK] Seg=1 Ack=1470 win				
	211.151.59.57	192.168.137.185	TCP	1414 [TCP segment of a reassembled PDU]	075c675 2755c64352c			
	211.151.59.57	192.168.137.185	TCP	1414 [TCP segment of a reassembled PDU]	d09955e41			
	211.151.59.57	192.168.137.185	HTTP	1207 HTTP/1.1 200 OK (application/octet-st	630184daf			
	192.168.137.185	211.151.59.57	TCP	66 59344 > http [ACK] Seq=1470 Ack=2697 W	bc283942e			
	192.168.137.185	211.151.59.57	TCP	66 59344 > http [FIN, ACK] Seq=1470 Ack=	acOpafib0 acOpafib0			
	211.151.59.57	192.168.137.185	TCP	66 http > 59344 [ACK] Seq=3839 Ack=1471 M				
	192.168.137.185	192.168.137.1	DNS	80 Standard query A api-android.boku.com				
	192.168.137.1 192.168.137.185	192.168.137.185 192.168.137.1	DNS DNS	300 Standard query response CNAME api2.bol 76 Standard query A content.boku.com	acc390471 aff15066240132403			
	192.168.137.1	192.168.137.185	DNS	296 Standard query response CNAME api2.bol	\$9954b380 de4c0cfd33c34e52			
	192.168.137.185	192.168.137.1	DNS	77 Standard query A api-d. dropbox.com				
					Bb02beTe 19d8553630edda401			
		), 1207 bytes captured (94	556 bits;		bccc034ce 011497e93f89cabfc fcf401da9 9/b27743ce2c7ab5f			
Ethernet II, Sa		. DSt:	Det 10	.168.137.185 (192.168.137.185)	sebühde			
				(4), Seq: 2697, Ack: 1470, Len: 1141	8f83f1e5f1d38f3007922433e2f07b8d89ebc5e526db7e5b0c0dbef5b30b53b2346b161d19da86056b4ecdb1bcc36071e8d4a6c56fae516c54dfe274762282	06cc		
D [3 Peassembled	TCP Segments (3837 hutes)	) 412(1348) 413(1348)	14(1141)	1	dc04640b6b4dc55b09ed130afc8efec907a723afd67d348faa0e3c5608e32f75e056884d203c10447f1af9e3ad4dbc499976852b96f45969e93cc58a239859	175e		
	H [3 Reassembled TCP Segments (3837 bytes): #12(1348), #13(1348), #14(1141)] Hypertext Transfer Protocol				075ecb4d476646a2e59f3e643e3d033128a8ceb6c680e550dcdb99df77de05bbe3f05c81a42563f7029e928a2d6ef188a09e2f82c3da07de5feedc12d211ff			
Media Type					7bdoe16282dd12e52b617a5b160a387bc5eed0453b9a60e015b6cfae42f0fffe9dbdcd5e6cd416445509f97048f1c694c80bef90d3f32495a6b75e9126bcd31376 77388d562d93066ca3c15c725b0c6cdd21a4d2b769c9b90a8d3856a471da9ab76348b2fff032100656f524890e6f1a883e61d0fff5d3ac6dbae5282c360ae65d7a			
Media Type: 4	application/octet-stream;	charset=UTF-8 (3552 bytes	•)		<pre>//30035425306405425347428004000021442471962090480305044710434767450471103210456134599467146946714804865034459467148047454867744846917620473741451646724016616174239187248748491780248691491662325148948748489178484917824874474516467344784784848484848484848484848484848484</pre>			
					001311908/V4480911020013/01491890/200120012002/9000011/020301020000000000000000000000000			
					b88749d63ba96f86041db10914c92529ee249b930ea88214f6e81ede43797eed28bda79932834d506e55c1461a212155dd775eb99a4edea68996d9e89d4833	f1b4		
					d82ca372ce9cb5c4fc90c037ab13409f8f4cec9c4acf4effe7c229cle7248ea6094873473c2591f39aa76e6421201afef803dea99356f1cd78e7658509d53f	165d		
					33ed243901b4e7fcca41a8348258419d1cec9c4acf4effe7c229c1e7248ea60944e5061744c03545f8298a68bf0c2aabd3dea99356f1cd78e7658509d53f16	5435		
0110 67 65 3a 20	0 7a 68 2d 43 4e 0d 0a 0	d Oa Bb 6a 01 ge: zh-c M	-		422dae919e9090ce6b7dcfede1a4f005776f9e561084c0b6201a4f29447353208994e1db63bb4633c92167070a88071b8d5001b7f3115964729e256a603d45 4d76b251dec372afd125e67f20ecd7ec3f344ea79e32d9e5b850fd6b77948a6704aed91fb20d737df4516eb72dd71bd3271b8da1b3c7fb5a77986c3d8b825c			
0120 29 02 30 00	1 hf 04 28 36 33 67 c6 c				e) 50/2.000/341012000/12/000/100324406/952/0000000/9508/94007100/03/01401000/3/0140100/200/200/950300/950300/950300/950300/950300/950300/950300/950300/950300/950300/950300/950300/950300/950300/950300/950300/950300/950300/9503000/950300/950300/950300/950300/950300/950300/950300/900/950300/950300/950300/950300/950300/950300/9500/95			
0130 75 a8 39 42					bd369cce35e54a16bd346906b752c20fe30b940d739e01462e1af5713f09243509f3a1606731054ccf14094ab299036e2341600as000c7db0e7035f2cc07d			
0140 47 ea dd ea 0150 c6 22 77 71	2 cf 6b ea 29 be a3 e3 41 I fa 53 ac eb b4 b4 5c a	f 94 50 cc 22    Gk.) . e 1f 7d 6d 04    ."wg.S	O.P.		e31d9c4902a9ec38d61d6b0acb17683ef4de2193c7c631fd9a87bc886e49d3fd506df61dbfc9f16f30d6569f78783cd49bdee778763bcd90e5ee3a5f77624			
0160 7f a7 6e ce	5 30 94 11 94 6b c0 38 3	9 46 7e ee 25	89F		bbbbbb19d53e5dd820da36c94f05f66f585e6763c3e592c848168b78d49526dfa6a1ed9e8590d6871b9982d092fe3f98612cdd7362999ba0d5101355fd7d716			
0170 27 a3 80 ec		e 8a ec 47 4a	"0^GJ		\$3420a39ddb5d2bc966ada123af3a9befea0aea90015bee21a0a3bfc3b70033c8666afcd19580ff8bb63ff86a0b734cc446f73c706ea74610bfd6edbbae68a			
0180 33 be 14 70 0190 89 97 0e 27	1 08 tc b2 7t 37 16 t6 9	0 b8 ce 45 00 3	Ef		950fcfdc137864fd56f28a6e1cda056addb8187b13f7e909ac98c448d4137e2fd6e90c1381875325f8905b139937aeabbb97613f9db35da7b8c63709bf4f5e1 f640c3a7c4333d097768e9fae43eee3a9706909ade74c8d72f497ff1c7fe04e22404a64cb70770c3496623f2febbd5f72f00612abf4f6b75fdc7622e47383c			
01a0 a4 2d 97 41	F 94 07 c3 c5 ab 7a 81 8	6 9e fd 24 d60	z		100038 04330112 ad244 col1620 64204284 sector 110 100451553465700405842871 0004961118000180110018001800180 100 667700304861112ad244 col16206402804 sector33579b0110055155346570040582a278706692205514799f00802405401401beb39a			
01b0 86 de bc f3	5 99 10 76 9a 86 8d 20 4	a 91 8a d4 d4v			070295fd4124flb23d1c869d8412b40#e8261#eb70#5552dbd5774#d1ccd3a10c2214cdtd3ff23bbc2de0079#f830472e3d1360528c3faf74bec42d07552			
01c0 52 12 b3 13 01d0 28 a3 ae 52	a de a5 cf 66 9a 51 c9 e	2 93 ad aa 4a Rt. e fa e2 15 85 (R=	Q3		3de137504781e0954633ed65do776082fb1eceed2ff1f6d060c2853d2968411c18fb56b7da4b3cce789e36f8bfccb3413b3615eca6902ffe6339b367b79d09			
01e0 d0 ce 39 12	2 20 3d ae cc 92 8f 66 c 2 76 b6 94 33 d3 b0 7f d	6 63 b7 d6 4b9.v3 .	с. к		d969e8d2c2e420030b4c059d8266a842185287f917ddfb1f361d681c6f5846035eb57207b3843dfbb629a40a9c147e0da7426b2aa3aa42e8bf1e8e5676690fx			
01f0 39 40 66 65		e 04 b3 6b d790fe2/YV .	. ( k.		2a346ed222b996708b4256c2c470d8a366049892e47db2988cfac20da48932a4033ef45dc0ce3f7380eb45b2d2b88d535b880bd675f02562df0e88e72120bc			
0200 62 8b a6 cb 0210 bb a8 88 47	5 26 49 ed c0 44 a3 ab 6	8 e0 12 b6 e0 b&I E 7 e1 45 5f e0G.d	h		5fe348021acc8df463683e740370efdfb73267c376d4456dba81f20656d3786c326699a9ae783aced726eb3be4f734cc7d06ff5bee08dac78015cdfea7bb00 1d3253e3d44e9dd532e47f351f0361d16faf3d3d9600cc821b68018c81d8b93ae8b68ea9abfbde83953e703566b490ae81f367002a358cec5249aba2a47543			
0220 6d 2b 88 01	b8 1c da 5a 14 01 89 0	9 6d 02 56 2a m+Z			132235364444788534471351034114541336474900002430561305430840568888104853751035474988513610243556815434428452845284528458545445454545454545454			
0230 e0 24 22 5		8 40 10 b5 7fE .			6644f6d3859511a1df416ed367c15513419764e971aa7b571651259f4528c86b77744faf43d71062e93a704d4a3ff*.decode("hex")			
0240 43 5f 9a 86 0250 76 e1 7e 93	5 56 EF U/ 32 UV ED 18 31 2 d6 32 10 4d 46 65 55 60	6 a3 b0 cd 20 k - 2 M r			>>> print_dec(a,server)			
0260 41 b2 35 67		f e2 74 d2 4b A.5bx			mml version="1.0" encoding="UIF-8"?			
0270 6d 56 72 71 0280 7e f5 ec f6		8 3f f5 fd 94 mvrq						
0280 /e 15 ec 16 0290 e6 42 38 ec	: f1 37 11 90 82 2a 8f 0	0 91 TC 90 aTZ	V		<protocol>A-RV/6.6</protocol>			
02a0 ee 51 d3 b3		2 65 74 8c 38 cf .	et.8		<pre><protoolsx-av(6.6< ptotools=""> <command/>11</protoolsx-av(6.6<></pre>			
02b0 78 1d 7c 2c 02c0 9e 54 aa ba	e f6 2c 23 fa 5d 70 68 3 2 9b 8c 14 8f d5 3f 53 9	5 82 54 6c 5b x.[#.]	ph5. T1(		<sessioninfo> AGAIN</sessioninfo>	_		
0210 02 34 44 04	50 0C 14 01 03 31 33 4		tarit.		<userinfo></userinfo>			
Frame (1207 bytes) Rea	ssembled TCP (3837 bytes)				<uid> c/UID&gt;</uid>	*		
Media Type (media)	352 hutes Darkets 3	12 Displayed: 51 Marked: 0			Let 1	1680 Col: 4		

Encoded data that is easily hacked

	Saving screenshot			8,		🗊 R 📕 📒 18:22
<	More				More	
Ch	eck for Updates	:	>	С	heck for Updates	>
Report App Problems			>	R	eport App Problems	
Li	Update		>	L	Download completed	i >
Al	Download22%	>	A	Download completed, please install Don't remind me again		
	Cancel	Hide			Cancel Cl	ick to install

Software engineers simulated a Man in the Middle Attack disguised as a software update to the user's phone.

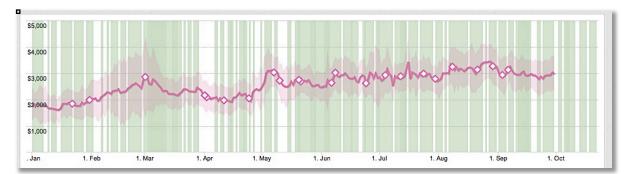


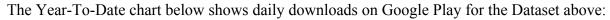
NQ's Chief Security Architect testing NQ's encryption.

## NQ's International Revenue – Highly Likely to be Massively Overstated

NQ's purported \$36.5 million on 2012 international revenue is absurd, and to be almost entirely fabricated. Our conclusion is based on analyses of app downloads, retail site visits, calls with an international carrier, discussions with NQ management, and discussions with industry consultants and NQ competitors.

NQ claims that its ex-China revenue in 2012 was \$36.5 million. However, Distimo analytics estimates NQ's year-to-day worldwide revenue at less than \$800,000. Distimo is a web analytics company that tracks over 3.2 billion downloads per quarter, and is widely used by web and mobile companies. Distimo tracks downloads from Google Play, the world's largest Android app store; and, Distimo develops estimates for app and developer revenue. The year-to-date chart below shows daily revenue on Google Play for 35 countries. Distimo tracks the following NQ products: Android Booster, Easy Battery Saver, Family Guardian, Easy Finder, Mobile Security, Mobile Security for Retail, Mobile Security 6.0 and Antivirus 7.0, Security Multi-Language, Vulnerability Killer, Super Task Killer and Vault (the Dataset):







NQ tells investors that its strongest markets are in Southeast Asia and the Middle East – particularly Malaysia, Thailand, Indonesia, and Dubai. It claims an annual ARPU in these markets of \$15. The monthly blended ARPU in Thailand is \$7.13, with 60% of Thais using a mobile device to access the Internet.<sup>56</sup>

NQ has its co-headquarters in the US, spends significant sums of money on PR, and yet does not generate meaningful revenue in this market. (It is not a coincidence that revenue from the US would be much easier to audit than that from developing countries.) Our site visits to 84 retail locations in the US that are supposed to sell NQ products, and conversations with management of some of NQ's US distribution partners yields attachment rates generally of only 2% to 3%. The average ARPU in the US is \$46.50.<sup>57</sup>

The graph below from Distimo data compares the average daily revenue of Lookout, Kaspersky, and NQ, across all mobile security products. We understand that Lookout's worldwide mobile security app revenue is less than \$10 million annually.

<sup>&</sup>lt;sup>56</sup> http://www.slideshare.net/yozzo1/2013-thailand-mobile-market-information

<sup>&</sup>lt;sup>57</sup> http://www.totaltele.com/view.aspx?ID=472089



Our conversations with former mobile security employees of NQ competitors, such as Lookout, Kaspersky, and AVG makes clear that the best markets for mobile security are North America and Western Europe. Developed world consumers are far less price sensitive than developing world consumers, and are more willing to spend money on mobile security, despite not facing as many malware threats as in the developing world. Developed world conversion rates from download to paying user are around 2%. Developing world conversion rates are lower.

The primary reason malware is so much more prevalent in the developing world is precisely because people are unwilling to pay for apps – they often download pirated versions of apps for free, and these apps often are malware.

At the end of Q2 2013, NQ's DSOs were 198 days. The Company states that much of the high AR balance is due to its international revenue, and that its processors often have 180 days to settle. The industry people with whom we spoke all said that in their experience, their companies received payment in 30 to 45 days – even in emerging markets. The companies for which they worked utilize carrier billing, direct payment, and Google and app store payment mechanisms. Direct carrier billing is the most costly and time consuming of these methods. None of these industry experts could understand why NQ takes so long to receive payment.

NQ reveals nothing about its partners in its key overseas markets. Yet, it seems that every time a US-based executive signs up for a new loyalty program, NQ issues a press release about a "partnership".

It seems that most of NQ's high revenue international partners are not carriers, but rather are some type of intermediary. However, NQ claims to have the lowest user acquisition costs in the world, at approximately \$0.07. Given that NQ is dealing through multiple layers to get to customers, it is highly unlikely its acquisition costs would be the lowest in the world. Given that NQ has a fraction of the user base it claims to, its user acquisition costs are probably in reality close to being the highest in the world.

We previously noted NQ's penchant for turning the most mundane event into a headline. It is somewhat ironic that it did so with Telefonica. NQ signed an agreement with Telefonica in connection with their Blue Via platform on February 27, 2012. Blue Via is a payment service created to foster development of new apps by facilitating payment integration. Telefonica offers

this service free to any developer willing to adhere to its ethical policy. There are approximately 3,000 developers using Blue Via, and we understand that Telefonica has never terminated any relationship. There is no minimum sales requirement to be on the platform. Telefonica provides no marketing support, other than the Blue Via portal. In short, being an app developer on the Blue Via platform is as special as having the last name Smith. The irony though is that one of Blue Via's nicest features is that it processes payments quickly – developers generally receive payment within 15 days of the end of the month.

One of our consultants with knowledge of Blue Via said, "There have not been many downloads of NQ software. Just a few. It's not a big business." Telefonica's mobile security vendor of choice in Brazil is F-Secure, not NQ. Consumers download F-Secure from the Vivo app store. The attach rate for F-Secure was 6% after a two week trial period in June 2011, and was considered a success by Vivo. Vivo pays F-Secure within 30-45 days after the customer is billed, as is customary for mobile app payments.

#### The mobile security app market is much harder than NQ makes it appear

The mobile antivirus and security revenue constitutes a negligible segment of the overall antivirus software market. Desktop antivirus companies offer a mobile product for competitive reasons, often at a loss, to lock their customers into a multi-device solution and reduce the opportunity for competitors to poach their customers. Because it does not have a desktop app with which to create a bundle, this opportunity is not present for NQ.

The US retail channel is not well-suited to mobile security app developers. Android smartphone industry has grown and created opportunities for antivirus and security companies that can demonstrate their value and have strong brand recognition. However, retail is a difficult sales channel to penetrate considering stores want 30% to 40% of gross revenue. Stores require collateral and sales person training in order to effectively pitch the product.

Retail salespeople are seldom motivated to sell security apps. Selling mobile antivirus at the retail level is a lot of work for a little money, and without a catalyst to drive mobile antivirus sales such as the CodeRed and Nimda viruses consumers do not feel the pain enough to motivate the purchase an antivirus solution. The goal of antivirus companies is to get consumers to accept desktop pricing for mobile solutions, however that has not yet occurred.

NQ's lack of a desktop product creates a disadvantage when it comes to retail sales and the sales person upon whom they must rely has a store full of products to sell, most of which can be sold quickly, require little sales training, are more popular and provide a greater economic incentive to sell than NQ products. After selling the NQ product the salesperson must physically install it on the consumer handset and register the consumer with NQ, a time consuming process with little upside for the salesperson. Salespeople tend to view NQ as a product to sell as a last resort if they can't upsell any of the other easier products they traditionally sell.

## **The Farcical Side**

The farcical facts we uncovered about NQ sometimes made it easy to forget that the Company is committing a very serious fraud. Such chicanery is not unusual in the China fraud context – it usually seems to result from a fraudulent company desperately trying to find ways to generate real revenue in order to relieve some of the pressure of having to constantly cook books. Some of the stranger things we came across when looking at NQ were its knockoff Segway (MW internally dubbed it the "Family Guardian Emergency Response Vehicle"); the anonymous calling cards; black hat SEO that is likely infringing trademarks belonging to Samsung, Apple, and other large companies; claiming to pay \$1.55 million to a middleman for a 10-year lease on its URL; having a "NQ for Men" philandering tool app, and falsely claiming to have just discovered viruses.

Below are pictures of NQ's knockoff Segway (http://inmotion.nq.com).





NQ should produce *Breakin' 3 Don't Crash Into a Tree* and do product placement.

NQ's anonymous calling card business is silly. China now requires an ID to buy prepaid cards. Anonymous calling cards are relatively rare in China, and are not condoned by the authorities. (This is why we believe NQ's brand is not on the card.) The main market for anonymous cards is likely telephone / SMS spammers and scammers. Investors might find it ironic that a company that makes anti-spam software also enables spam. However, as we explain in *NQ*'s *3-15 DNA*, NQ was exposed by China's state television news for infecting phones with malware in order to sell users the cure.

Card buyers need to download software to operate the anonymous card. The two vendors told us that the URL on the anonymous card, http.KD.tl (.tl is an East Timor domain.), is the site from

which to download the software. (NQ has an affinity for two-letter domains – as we highlight infra, it claims to have paid \$1.55 million to an anonymous party for 10-year rights to www.nq.com.) Similar to how NQ has responded to our prepaid card inquiries, it suddenly removed all content from the website on October  $18^{th}$ . The Beijing vendor also changed his story about the cards on October  $18^{th}$  – as we discussed supra, we rattled NQ's cage with our prepaid card queries.

NQ is behind the anonymous calling cards. The software used references NQ, and a website through which the software operates http://secretclothes.com, lists NQ's webmaster, Zhang Guobao, as the contact.

NQ's is likely infringing the trademarks of Samsung, Nokia, HTC, NTT, Vodaphone, and Apple. NQ is engaged in "black hat SEO" by registering URLs with these trademarks in them, and pointing them toward NQ's US website. On October 21, 2013 we ran a Reverse IP lookup on NQ's website, www.netqin.com, located at 211.151.59.30. These servers host domains that include expected regional variations of the NQ brand such as NQ.fr, NQ.jp. However, these servers also host domains with the following trademarks in the URL:

- 1. NOKIAsecure.com
- 2. NTTsecurity.com
- 3. SAMSUNGsecure.com
- 4. securityHTC.com
- 5. securityIPHONE.com
- 6. VODAFONEsecurity.com

All of these domains redirect to en.NQ.com.

We would be surprised if these companies licensed their trademarks to NQ for this purpose – particularly in the case of Samsung, which has a similar URL for its security equipment division (www.samsungsecurity.com). We have already sent letters to the general counsel for each of these companies. This black hat stunt would be far less likely to happen at a real company.

Pimpin' sure gets a lot easier with NQ for Men.<sup>58</sup> NQ for Men appears to be a mobile phone app that keeps significant others from being able to see the "black book" part of the contacts, call / SMS history to black book contacts, and blocks calls and SMSes from these contacts during inconvenient times. MW acknowledges that there is likely a niche market for this product, but we are not sure it is something with which a global leader in mobile security would be involved. Note to Anthony Weiner: read the section titled *NQ's Antivirus Makes it Easy for the PRC Government and Hackers*... before using.

<sup>&</sup>lt;sup>58</sup> "Pimpin' Ain't Easy", Big Daddy Kane, It's a Big Daddy Thing (1989).

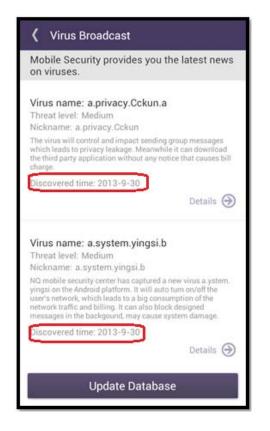
8		S - men exclusive cont IEINQ) - September 12, 2013 Wishlist		
	Max Dawn         ## Hild         ## Hild         ## Hild           Max Dawn		аналан алан аланан алан	
Description Your phone has "signific and more difficult to mai keep your contacts orga Add shook his answer pl [Features] 1. "Private" life: intimate i privacy being compromi 2. "Serene" Life: semantic	nage? Now it's all solved, a "bi nized, but also make your life none features are immediate! multiple "private space" featur sed	re allows you to safely use mobile og patented intelligent spam SMS	ess book software turned ou me, "tranquility and privacy" e phones without worrying a	it, not only to bout your
Three. "Intelligent' life: U- want. 4. "Orderly" life: the depth glance, the intimate little 5. "Cloud" life: the use of backup / restore. Let you Related applications: QQ contacts, UC browse chat, micro-channel, KIK	sing T9 search with smart so optimized communications feature will let you to put it d 'cloud' backup feature, allowi r contacts from 'never lost' r, microblogging, Sogou input fire, QQ space, 1,616 contact ers, Viber Handcent SMS, Wa	rting, smart dialing allows you to records and contact manageme	nt features that make your o S / Windows Mobile phone f ncent microblogging, mobile D SMS, GO Contacts, GO cha	ontacts at a freely between 2 QQ, Alumni, m it, Pansi SMS,

App store page for NQ for Men.

NQ's claim to have paid \$1.55 million for the domain www.nq.com is outrageous. NQ claims to have paid the money in July 2011, but the curious thing is that the domain was transferred to an anonymous registrant in 2011, and then subsequently transferred to NQ in October 2011. The seller of the domain in July 2011 was a company called Conexus Software. It appears to have been very small – there was no physical address or phone number on the website as of June 2011. Google searches reveal little online information about it. Two possibilities strongly suggest themselves: a) NQ had a related party purchase the domain from Conexus for far less than \$1.55 million, and then sell it to NQ for an inflated price, or b) NQ had a related party purchase the domain from Conexus for far less than \$1.55 million when in fact the price was much lower – this would have helped NQ burn off some "fake cash". Of course it is always possible that Conexus was able to command such a windfall

price for the domain, but we would bet against it. Another interesting fact is that we called the original seller and he told us he was not at liberty to discuss the transaction without speaking to counsel first – it sounds as though he had a NDA. What is so secretive about selling your domain unless there is more to it than just "www.nq.com was sold for \$1.55 million"?

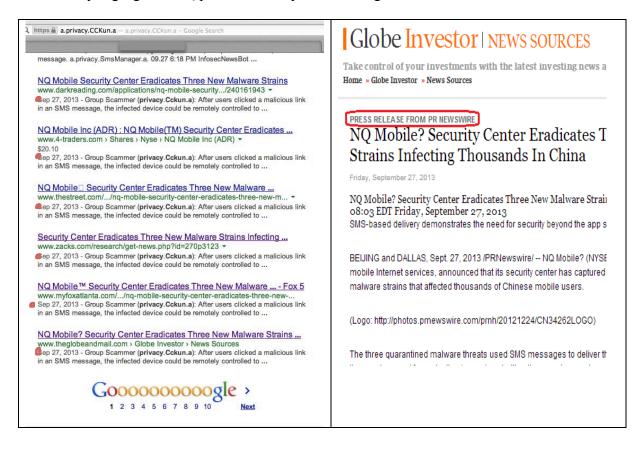
NQ is "scare ware" – NQ Antivirus 7.0 is hardcoded to tell the user the NQ discovered two viruses the same day the user installs the app. Upon installing NQ antivirus 7.0 and running an initial scan, the user receives a scare-ware message indicating that certain viruses have been recently discovered. This message is presented to all users, and the discovery date is always the same as the date the app was installed.



When we examine the code, we can see that these virus alerts are actually hardcoded into the application, and are presented to the user by default:

347	<string name="update_db_virusforecast_name_default">a.fraud.GappI.a#a.privacy.IknoSpy.a#a.system.yingsi.b</string>
348	<string name="update_db_virusforecast_alias_default">a.fraud.GappI.a#a.privacy.IknoSpy.a#a.system.yingsi.b</string>
349	<pre><string name="update_db_virusforecast_time_default">2013-05-02#2013-05-02#2013-05-02</string></pre>
350	<pre><string name="update db virusforecast level default">Medium#Medium#Medium#Medium</string></pre>
351	<pre><string name="update_db_virusforecast_desc_default">"NQ Mobile Security Center has captured the latest virus called a.fraud.GappI.a. Typical feature: It automatically connects to the internet and downloads applications in mobile background so that consumes data usage and the applications which are downloaded are controlled by server.4NQ Mobile Security Center has captured the latest virus named a.privacy.IknoSby.a. Typical feature: It collects contact information, text messages records, call log, location without users' permit. It leads to mobile data usage and privacy leakage by downloading unknown applications and voicetamprvideo recording.4NQ mobile security center has captured a new virus a.ystem.yingsi on the Android platform. It will auto turn on/off the user's network, which leads to a big consumption of the network traffic and billing. It can also block designed messages in the backgound, may cause system damage: "</string></pre>
352	Katring
	<pre>name="update_db_virusforecast_detail_default"&gt;http://virus.netgin.com/en/android/a.fraud.GappI.a/#http://virus.netgin.com/en/android/a.privacy.IknoSpy.a/#http:// /virus.netgin.com/en/android/a.system.vingsi.b/</pre>

We searched the Internet hoping to find an actual user who has been infected with these viruses. We scoured user support groups, competing antivirus company websites, carrier websites, etc. We did not find anyone who has been infected. What we did find were multiple websites that mindlessly regurgitate NQ press releases put out through PR Newswire service:



## NQ's 3-15 DNA – Video Available at: https://vimeo.com/77704496

NQ broke the cardinal rule of China fraud: Do not get into trouble in China. State-owned CCTV, the most influential television news network in China, exposed some of NQ's dishonest practices in what is known as the "3-15 incident". Every March 15<sup>th</sup> in China is Consumer Day, and CCTV airs investigative reports on companies that are among the more egregious in their business practices. NQ was exposed during the March 15, 2011 program.

CCTV revealed that NQ and its subsidiary, FL Mobile, were paying phone refurbishers in China to install both NQ and FL software. However, the FL software was really a trojan, and about six hours after the user put a new SIM in, the phone would go haywire. The performance would slow down, and users would see their phones uploading and downloading data without being commanded. Non-NQ security apps were suddenly deleted. However, users could obtain salvation by running NQ, which informed them that they would need to become paying subscribers in order to eradicate the virus.

The exposure was a massive problem, and threatened to derail NQ's fraud dreams. Its IPO was postponed by a few months while it tried to paper over the bad publicity. We spoke with a

former NQ employee who joined the Company after the 3-15 incident. She informed us that NQ tells employees that CCTV the following year aired a retraction. We viewed the 2012 program, and there was no retraction of any sort. This appears to be a lie.

NQ tells investors that CCTV privately retracted its reporting. We see no evidence of the sort. We did come across an interview with the director of that episode in which the director reiterated that NQ and FL were culpable:

China Times: The day after the report exposing NetQin and Feiliu Jiu Tian of jointly harming consumers, they declared there were serious discrepancies with your facts.

Yin Wen: the content of Feiliu JiuTian's statement really has no substance, they did not state what specific points were mistaken.

The issue addressed in their statement was primarily that of the "version problem" followed by the "key" problems, and even went so far as to claim that they were framed by their competitors. All so-called "great" companies claim they were framed by competitors when they are exposed. Would CCTV's 3-15 Gala show do such a thing? Now the two companies have removed their statements, both having already admitted their mistakes.

In fact, the purpose of this program is to provide consumers with a clue. Although the program was only a few minutes long, in fact, we started the investigation of these two companies in October of last year and spent a total of four months of time investigating. In total we spent four months tracking them, determining how they did the downloads, assessing how they control users, all of this have been investigated very clearly.

NQ tried to paper over its wrongdoing by submitting code to be certified as clean. Obviously NQ submitted the OTHER code - i.e., the code without the malware.

We have posted the 3-15 video on our website with subtitles. We believe that investors will find it illuminating. The video is at: https://vimeo.com/77704496.

3-15 is important for investors to understand NQ's management. First, they obviously lack an ethical compass – that is the obvious. More subtly though, this is evidence that they just cannot help themselves. Scamming consumers for RMB 2 a pop was clearly a stupid risk given the hundreds of millions of dollars they could pocket through a successful stock fraud. These are people who will steal the shirts off investors' backs – without hesitating.

## **US Management is Merely a Front**

NQ would have viewed Omar Khan as the perfect front for its fraud. That is why it offered him a pay package worth over approximately \$20 million during the first three years, even though Mr. Khan had never been a C-level executive or a business operator. This is by far the smartest thing the perpetrators of the fraud have done – everything else we have seen from NQ is average to poor tradecraft.

By the second half of 2011, NQ was public, but it had barely pulled it off. The originally planned March 2011 IPO date was scuttled because of the CCTV exposure of its malware installation operation. (See NQ's 3-15 DNA.) Shortly after NQ went public, several high profile China fraud blowups caused investors to flee US-listed China stocks. Because NQ was among the more poorly disguised frauds, its stock price lingered in the gutter.

NQ's true management had a previously successful blueprint upon which they called for inspiration. China Fraud 1.0 generally involved having a smooth "CFO" who was usually based in the US. The CFOs usually had enough professional background to talk numbers intelligently, but they were not involved in any real management, budgeting, or CFO-ing. Their job was to market the stock. This model worked extremely well for several years.

NQ thus conceived China Fraud 2.0. China Fraud 2.0 is about making the US "management" presence appear more substantive than it did with 1.0, i.e. have a Co-CEO, rather than just a CFO. In addition, make the Co-CEO someone who really understands promotion and buzz – ideally, someone who would see opportunities to generate legitimacy for the Company by signing deals with US companies that lead to press releases. Lots and lots of press releases. Give the Co-CEO a staff and latitude to make as many arrangements – no matter how small or unprofitable – with US companies as possible. Finally, pair him with a former hedge fund manager to relentlessly market the stock.

Omar Khan is a top-flight pitchman. He had been the face of many of Samsung Mobile's biggest product launches in the US, and for good reason. He is smart, knows mobile, and connects extremely well with his audience. Because he had never been an operator though, he would be much less likely to figure out NQ is a fraud. In Mr. Khan, NQ got exactly what it needed – credibility, charisma, and naivete.

For Mr. Khan, the approximately \$20 million stock package NQ offered him was likely far more money than he had ever seen, given his career trajectory as a sub-C level executive at large corporations, such as Motorola, Samsung, and then Citibank. NQ hired Mr. Khan out of Citibank in Dallas, TX.

Mr. Khan is not a board member or executive of any of NQ's China entities.<sup>59</sup>

So far, this has seemed to work out extremely well for Mr. Khan. His stock package is now worth approximately \$100 million.

It is possible that Mr. Khan has been defrauded every bit as much as NQ's investors. This certainly is not without precedent though. When Longtop Financial Technologies Ltd. (formerly

<sup>&</sup>lt;sup>59</sup> SAIC files.

LFT) was confirmed as a fraud, numerous very China savvy investors were stunned. We recall conversations with some of these investors, and their shock was due to their faith in LFT CFO Derek Palaschuk. Mr. Palaschuk was not the typical China Fraud 1.0 CFO – he knew his way around China companies, had long been based in China, and believed he had a substantive role in managing LFT. Apparently LFT built a fake online banking environment just in order to defraud Mr. Palaschuk, all the while causing him to unwittingly defraud thousands of investors. LFT and Mr. Palaschuk offer two lessons for NQ investors. First, the only people whose integrity matters are China-side management and their cabal of advisors and enablers. In NQ's case, no such integrity exists. Second, even the most sophisticated and deeply embedded executives are no match for the unfathomably large amount of tools and willingness to commit fraud available in China.

NQ's current and former CFO are old hands in the China Fraud world. We do not suspect that they were ever culpable in the frauds with which they have been involved, and we are not suggesting that either knows that NQ is a fraud or is culpable; but, once somebody is tainted with a public company fraud, it is hard to get work at a non-fraud. Prior to NQ, Suhai Ji, the recently departed CFO, headed business development for the New York Stock Exchange's Beijing office. During his tenure, the NYSE listed several frauds, including Ambow Education Holding Ltd. (AMBO), China Intelligent Lighting and Electronics Inc. (formerly CILE), alleged fraud China New Borun (BORN), Duoyuan Printing (formerly DYP), Duoyuan Global Water (formerly DGW), and Universal Travel Group (formerly UTA). NQ's current CFO comes was a managing director for Asia investment banking at Piper Jaffrey. During his time at Piper, Piper helped to underwrite BORN, DYP, DGW, and Gushan Environmental Energy (formerly GU).

## NQ's Cash Balance (a Level 2 Asset) is Highly Likely to be Fraudulent

We strongly suspect that the vast majority of the \$127.9 million cash and investments NQ reported having as of December 31, 2012 is not actually in the Company's accounts; rather, that some to all of NQ's IPO proceeds have been diverted in order to further the accounting fraud. NQ's disclosures about its cash and term deposits being Level 2 assets raise significant red flags.<sup>60</sup> Its claim to have transferred approximately \$47 million in IPO proceeds directly to its VIE contravenes China's capital controls, and in our view, never really happened – we believe that the money was instead diverted.

Forging cash balances in China is shockingly common and easy. Unfortunately, cash balance confirmation is the only anti-fraud procedure most public company audits incorporate. In other words, if a company can fake its cash balance, its auditor will generally conduct the audit with little to no skepticism. China's banks have very poor controls at the branch level, and branch employees have been co-opted in frauds countless times. The auditor resignation letter for Longtop Financial Technologies Ltd. makes clear that branch level employees were complicit in the fraud.<sup>61</sup> (The auditor only resigned after Bronte Capital and Citron Research scathingly exposed it as a fraud.) China Auditors now sometimes take steps to improve the quality of cash

<sup>&</sup>lt;sup>60</sup> 2012 20F, p. F-23.

<sup>&</sup>lt;sup>61</sup> See Longtop 6-K filed May 23, 2011.

confirmations, including depositing a small amount of money in the client's account and immediately requesting the client's bank account statement to ensure the deposit shows up.

The first warning sign about NQ's purported cash balance being fraudulent is that in the 2012 20-F. NO classified all cash and equivalents, and term deposits, as Level 2 assets for 2011 and 2012. This raises questions about how NQ is claiming to hold its cash, and how NQ's auditor confirmed the balances. We cannot recall having ever seen cash classified as a Level 2 asset. Even more troublesome, the 2011 20-F classified all of NQ's cash and term deposits as Level 1 assets, but in the 2012 20-F, the 2011 balances were reclassified as Level 2 without any explanation. The Level 2 reclassification raises worrying issues because the default assumption is that cash and term deposits of less than 12 months in safe banks are not Level 2 assets – that is, you should be able to derive their fair value without having to look at other assets for pricing. This default assumption was obviously the basis for the original 2011 classifications.

NQ's 2012 20-F makes the below disclosure about its cash and term deposits for 2011 and 2012. The 2012 20-F retroactively reclassified them as Level 2, but without explanation.<sup>62</sup>

		Fair value measurement at reporting date using (in thousands)			
Items	As of December 31, 	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	
Cash and each emissionlants	US\$	US\$	US\$	US\$	
Cash and cash equivalents	18,862		18,862		
Term deposits	101,503		101,503	-	
Short-term investments	7,573		7,573		
Total	127,938	 Fair value r	<u>127,938</u> neasurement at reporting date		
			(in thousands)		
	As of December 31,	Quoted Prices in Active Markets for Identical Assets	Significant Other Observable Inputs	Significant Unobservable Inputs	
Items				mputs	
	2011	(Level 1)	(Level 2)	(Level 3)	
	US\$	(Level 1) US\$	US\$		
Cash and cash equivalents				(Level 3)	
Cash and cash equivalents Term deposits	US\$		US\$	(Level 3)	

Below is the 2011 20-F schedule.<sup>63</sup>

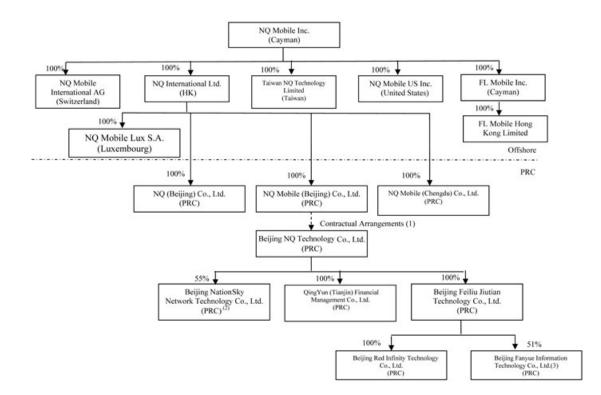
		Fair Value N	Fair Value Measurements at Reporting Date Using			
	Total Fair Value on <u>Balance Sheets</u> USS	Quoted Prices in Active Market for Identical Assets (Level 1) USS	Significant Other Observable Inputs (Level 2) USS	Significant Unobservable <u>Inputs (Level 3)</u> US\$		
As of December 31, 2010						
Cash and cash equivalents	17,966	17,966	_			
Term deposits	11,279	11,279	_			
As of December 31, 2011						
Cash and cash equivalents	69,510	69,510	-	·		
Term deposits	58,563	58,563				

<sup>&</sup>lt;sup>62</sup> 2012 20F, p. F-23. <sup>63</sup> 2011 20F, p. F-18.

One therefore wonders what NQ is showing its auditors as evidence of the existence of the cash and the term deposits, and why the auditor deemed it necessary to reclassify 2011 cash and term deposits. These facts raise real concerns about whether NQ's purported cash is really there, and if it were, whether NQ is holding any of China's infamous "wealth management products".

NQ's purported implausible movement of funds makes it easier to divert funds without detection. When analyzing NQ's SEC filings alongside its (fraudulent) SAIC financials, it becomes clear that NQ purports to have moved about \$47 million of IPO proceeds to its VIE in a way that almost certainly would not have been permitted, and would therefore not have been possible. This claim is reminiscent of Sino-Forest, which also purported to have moved cash in ways that contravened China's exchange controls. Sino-Forest's similar claims were essential to its having obtained unqualified audit opinions for 16 years, most recently from Ernst & Young.

About \$47 million of IPO proceeds purportedly ended up as a "term deposit" in the PRC belonging to the VIE. This purported movement represents worst practices for managing risks of theft and other misconduct inherent in VIE structures. Our view is that most to all of the cash transfer never happened, and that by purporting to have somehow circumvented China's capital controls in order to transfer the money directly to the VIE, it makes it easier for NQ to carry out its fraud by forging its cash balances. In order to understand these points, it is necessary to consider NQ's corporate structure. Below is a diagram of the relevant entities.



The proper way to move money into the PRC is by downstreaming cash from NQ Hong Kong to NQ Beijing. This may be in either the form of registered capital increase (i.e., equity subscription) or a loan from the parent (i.e., NQ Hong Kong). This is neither a complicated nor lengthy process, and in fact, NQ did this with \$20 million in January 2012 that it injected into

NQ Beijing via a registered capital increase.<sup>64</sup> NQ Beijing may then lend money without interest to the VIE, or to shareholders of the VIE. In May 2012, NQ Beijing did just that – it loaned the VIE shareholders RMB 40 million,<sup>65</sup> which was used to increase the registered capital of the VIE. The problem for NQ is that moving money into NQ Beijing is easily tracked and verified because it is a WFOE – there are records in the SAIC files of registered capital increases. In other words, there is a real paper trail when NQ moves money into NQ Beijing. By claiming to have moved money in a way the auditor likely has rarely (or never) seen, NQ would have a much greater ability to commit fraud.

NQ's SEC disclosures and SAIC financials make clear that it is purporting to have loaned IPO dollars directly to the VIE, at some point the funds were somehow converted into RMB, and then the VIE placed the money in a (Level 2) term deposit.

As you can see below, the VIE entities lost \$3.8 million in 2011. Yet, cash at the VIE increased by \$66 million. Because the Company only generated roughly \$12 million in free cash flow, the only source for such an increase in VIE cash is from the parent Company IPO proceeds. At the end of 2010, the Company had cash of \$18 million and term deposits of \$11.2 million. By the end of 2011, cash was \$69.5 million and term deposits were \$58.5 million largely as a result of the 2011 IPO that raised \$82.9 million. Much of the cash was therefore downstreamed as an intercompany transaction to the VIE from the parent. SAIC financials confirm that NQ purports to have moved money directly to the VIE because they show the VIE as having Other Payables of \$78 million as of December 31, 2011; however, the WFOE has no matching receivable.

	USS USS US 11,400 23,039 54 2,829 (3,829) 4 For the Year Ended December 31,			
	2010	2011	2012	
	US\$	USS	US\$	
Total net revenue	11,400	23,039	54,461	
Net income / (loss)	2,829	(3,829)	4,399	
	For the Year Ended December 31,			
	2010	2011	2012	
	US\$	USS	US\$	
Net increase/(decrease) in cash and cash equivalents balance	6,936	66,007	(7,464)	

It is almost inconceivable that NQ would have been able to execute the purported transaction. Because the VIE is owned by PRC nationals, it is considered a "domestically-funded enterprise". It is extremely difficult and rare for a domestic company to get approval to borrow money from offshore. The VIE would have to apply to the National Development and Reform Commission ("NDRC") to borrow from offshore for one year or more. Such approvals are given only to fund loan projects that "are in line with national industrial policies and economic development planning".<sup>66</sup> Loans up to one year would have to be approved by the State Administration of Foreign Exchange ("SAFE").<sup>67</sup> An attorney from a leading PRC law firm that is highly experienced in working with VIEs said that he and his partners had never seen any private

<sup>&</sup>lt;sup>64</sup> NQ Beijing SAIC files

<sup>&</sup>lt;sup>65</sup> NQ 2012 20-F, p. 97.

<sup>&</sup>lt;sup>66</sup> "Provisional Measures Regarding Management of Debt" (National Planning Commission, Ministry of Finance, State Administration of Foreign Exchange Order No. 28) Articles 15 and 16" (《外债管理暂行办法》(国家计划委员会、财政部、国家外汇管理局令第 28 号)第 15 条和第 16 条).

domestic company borrow from off-shore, and that the few instances of which they are aware all involve state-owned enterprise borrowers.

VIE cash movement, excluding NQ Fujian

	2011
	US\$000
OCF excluding other payables	(7,407)
ICF	(1,131)
Changes in other payables - primary intercompany payables	72,556
Others	1,969
Net changes in cash + term deposit	65,987

Note: Others mainly consist of currency translation differences ~\$1.5mm.

Transferring cash directly to the VIE would represent worst practices for managing risks of theft and other misconduct inherent in VIE structures, and would make no legitimate business sense. Note that in the corporate structure supra, NQ shareholders do not own the VIE – rather, Chairman Lin and two associates do. In practice, the various agreements constituting the VIE package give public company shareholders little protection against thieving VIE owners. One of the basic tenants of VIE best practices is that as much of the company's value (cash, operating assets, customer agreements, and employees) as possible be kept in the WFOEs (i.e., the entities the public company shareholders own via offshore entities.) The notion that NQ successfully went through the complicated and uncertain offshore borrowing approval procedure in order to manage its cash in a way that contravenes acceptable practices, with no upside (i.e., just to dump into a purported term deposit), does not hold water.

We believe that the onshore cash is far less than what NQ claims, and that it uses a portion of the excess to commit its fraud. We believe that most of the IPO proceeds were diverted, and that portion was funneled into fake counterparties (such as Yidatong) to pay in as revenue. We believe that NQ then uses some of its acquisitions to spit this cash back out to other fake counterparties who will send it back in for more fraudulent sales.

## NQ's Likely Corrupt Acquisitions

There are reasons to believe (apart from the fact that NQ is involved) that NQ's recent acquisitions are likely corrupt transactions. NQ has completed or announced acquisitions totaling \$25 million of cash and 15 million ADSes (worth about \$350 million at the present stock price).<sup>68</sup>

• NQ's acquisition of the remaining 73.4% of Feiliu (aka FL Mobile) for a total of \$62.7 million is likely corrupt. Feiliu was of course exposed by CCTV as a co-conspirator in

 $<sup>^{68}</sup>$  NQ usually / always makes its acquisitions with common shares. The ADSes are based on the 5:1 conversion ratio.

installing malware onto mobile phones so that NQ could charge users to fix their phones. Just before NQ acquired the remainder of Feiliu, Feiliu added six new shareholders. These shareholders were literally given their equity - NQ decreased its ownership percentage by 4.2% when it handed its shares over to these individuals.

The two new shareholders for whom we have been able to obtain background records are unlikely recipients of shares in the rapidly-growing, dynamic Feiliu. One of the new shareholders, Xie Yuteng, is from a small city in Guangxi province, and is a middle school graduate. Zhong Liang lives in a small city in Jiangxi province, which is not normally considered to be a technology center. In other words, both appear to be villagers. It is a common tactic in China Fraud to use villagers as fake shareholders – sometimes they are paid small sums for their cooperation, other times their identities are used without their knowledge or consent.

• Feiliu's November 2012 acquisition of Beijing Red Infinity Technology Co. Ltd. ("Red") is likely corrupt, as there is a strong chance Red was a tiny company. Red's four shareholders became Feiliu shareholders at the same time as the two (likely) villagers discussed supra. When NQ acquired their Feiliu shares one year late, they received compensation of up to \$25.2 million. According to Red's SAIC files, Red was founded in January 2011, and when Feiliu acquired it, Red had received equity capital subscriptions totaling only \$16,000 (RMB 100,000). The below are Red's summary financial statements from its SAIC files.

Beijing Red Infinity Technology (US\$ 000s)						
2011 2012						
Total Assets	241	80				
Total Liabilities	354	446				
Equity Capital	5	16				
Damage	4	15				
Revenue	4	15				
Net Loss	116	260				

 NQ's acquisition, via Feiliu, in January 2013 of 51% of Beijing Fanyue Information Technology Co. Ltd. ("Fanyue) for \$0.089 million and 10.5 million shares, is likely corrupt because Fanyue appeared to have been on its way out of business at the time of the acquisition. It was "operating" at a ghost address. According to SAIC files, Fanyue changed its office three months before NQ acquired it. It moved from a real office building to room 1313 of the Jingshui hotel.<sup>69</sup> When our investigator went to the hotel, he found that there is no room 1313. The hotel staff had never heard of Fanyue, but speculated that the room to which 1313 refers is a conference room. A mining company presently rents it. Even at present, Fanyue's website lists no contact phone number or

<sup>&</sup>lt;sup>69</sup> Room 1313, Jingshui Hotel, No. 10, Puhui Beili, Haidian District, Beijing (北京市海淀区普惠北里 10 号北京市 京水宾馆)

address – just two QQ handles and email addresses. It appears to be another company that does not want to be found.

- NQ's acquisition of 31.71% of Hesine for \$0.5 million and 3.5 million shares is likely corrupt, because Hesine moved into a 160 square foot office one year after NQ acquired it, and Hesine's business fell off a cliff.
- NQ's 30% acquisition of Pansi for up to \$2.9 million is likely corrupt because Pansi appears to have been on its way out of business at the time of the acquisition. Pansi was "operating" at a ghost address
- NQ's \$38 million of acquisition of NationSky could be a corrupt acquisition because its SAIC financial statements, which show 2012 revenue of \$15.2 million, appear to be fraudulent. For analysis of the fraud indicia in its financial statements, see Appendix B.

We theorize that the real purposes of these acquisitions are 1) to generate cash that will be recycled into NQ as fake revenue, and 2) line the pockets of the perpetrators. NQ is paying substantial amounts of shares for these companies, and because the monetization occurs outside of China, it would be quite easy to book this cash as international revenue.

### NQ's Future is as Bleak as its Past

NQ is attempting to pivot to a fraud that it hopes will be less obvious – gaming and advertising revenue. NQ's focus on gaming and advertising will not allow it to "grow into the fraud" by generating real numbers approaching its fraudulent ones. NQ's new purported strategy is predicated on NQ having the lowest user acquisition costs in the world – otherwise one would not expect to see a mobile security company go into gaming and advertising. Because NQ has a fraction of the users it claims, and in reality possibly the highest user acquisition cost in the world, this strategy will inevitably fail to produce real profits. Before Chairman Lin realized that there was a good fraud reason to push the myth of generating advertising revenue, he explained why advertising is incompatible with being a mobile security company, which is a logical argument (for a real company).

NQ's gaming strategy is being executed through its now wholly-owned subsidiary Feiliu. (Feiliu was responsible for the malware installs exposed by CCTV.) NQ has likely fraudulently inflated the value of Feiliu by many times (see NQ's SAIC Financials are Fraudulent, Leading to Fraudulent SEC Financials). In speaking with a recently departed NQ gaming employee, we learned that the revenue of NQ's top games is a fraction of what NQ leads investors to believe. We also learned that many of the managers and employees responsible for leading NQ's overseas gaming charge have also recently left.

NQ's purported pivot into gaming is predicated on the fraudulent assertion that its user acquisition costs are the lowest in the world. Co-CEO Omar Khan made this clear during a May, 2013 interview:<sup>70</sup>

Q: So how did you get from mobile to security to in app advertising and mobile gaming? I'm not necessarily seeing a direct correlation between the IP there.

A: "It's really about the platform. The fact that we built a platform where we can acquire users in over 150 countries, or have billing integrated in local currencies in over 60 countries, our ability to do that in an economical fashion. Today we can acquire users in between, at about seven cents per registered user on a blended basis. That's a very advantageous economic scenario. So the question we then asked ourselves is 'What additional content types can we then run through that engine?' I think it's a similar evolution if you 12 years ago, or whenever it was, you had Jeff onstage at any of your conferences at Amazon and said 'Ok, how are you going to run your business?'

NQ's consumer monetization platform is a myth, and that reality voids any legitimate rationale for focusing on gaming. NQ has far fewer users than it claims, and generates a fraction of its purported revenue – its user acquisition costs are therefore far higher than seven cents per registered user.

Chairman Yu Lin explained in January 2013 why NQ would not look to advertising to monetize users:

"Why don't we take ads? I think the format of ads on mobile phones is not mature yet. Furthermore, there is a fundamental conflict between our safety service, by its very nature, and the advertising model. If you want to target ads accurately, there will be privacy issues."<sup>71</sup>

Yet, here is Chairman Lin discussing NQ's exciting progress in generating advertising revenue in August 2013:

"I am pleased to report that we again achieved record revenues in the second quarter of 2013," commented Dr. Henry Lin, Chairman and Co-Chief Executive Officer of NQ Mobile. "We are excited about the progress of our expanded monetization efforts across our platform. As a leading mobile Internet platform, we will continue to grow our user base around the world and broaden our monetization capabilities. We are now not only generating security subscription revenues but significant gaming and advertising revenues as well. This is only the beginning of our exciting journey forward."<sup>72</sup>

We learned from a recently departed gaming division employee that NQ's three best selling games are: Dragon Summons, War Fire, and Fight of the Three Kingdoms. According to the

<sup>71</sup> http://knowledge.wharton.upenn.edu/article/nq-mobiles-henry-lin-we-have-been-a-global-company-from-day-one/

<sup>&</sup>lt;sup>70</sup> http://allthingsd.com/20130524/omar-khan-on-security-china-and-the-state-of-the-mobile-industry-video/ at 7:15

<sup>&</sup>lt;sup>72</sup> http://ir.nq.com/phoenix.zhtml?c=243152&p=irol-presentations

former employee, Dragon Summons generated about \$1.6 million in gross revenue in its first six months; and, that the gross margin is only about 40%. (The former employee said the gross margin is low in part because of payment processing costs.) NQ tells investors that Feiliu's gross margin is similar to that of NQ's (ex-NationSky), which is about 75%.<sup>73</sup> The former employee also believes that Fight of the Three Kingdoms is generating about \$1,650 per day (\$600,000 annually); and, War Fire is generating about \$1,300 per day (\$500,000 annually). If the former employee is correct, it is likely that Feiliu's real revenue, profit margin, and profit are far lower than NQ claims. (NQ recently advised that Feiliu is at a run rate of \$40 million.<sup>74</sup> Considering that Feiliu only started to generate mobile gaming revenue in 2012,<sup>75</sup> the purported run rate would be truly amazing if true.)

NQ has stopped putting resources into international gaming and a number of the China side employees hired for international gaming have left, according to the former employee. If true, this would contradict NQ's Q2 2013 statement that Feiliu would expand into North America in September 2013.<sup>76</sup> NQ changed Feiliu's name to "FL Mobile" in Q1 2013 in anticipation of taking the rest of the world by storm.<sup>77</sup>

## NQ's Filings Make Clear that PwC's Audits Were Sloppy

There are clear signs that PwC's audits of NQ were sloppy. It is very difficult to know from the outside how diligently an auditor performed its audit of a given company. Knowing that an auditor is Big Four means little because the quality of the work within the same firm can range widely. The experience of a former junior auditor with a Big Four firm in the UK is instructive in this regard. At one of the UK offices to which he was assigned, junior auditors received bonuses for finding issues during the audit. Yet at a different UK office at which he worked, juniors were evaluated in large part based on how quickly they worked. Fraudulent companies often force their auditors to do sloppy jobs by creating delays during the audit process. (To learn how important the audit slowdown tactic is to furthering fraud, see: www.whitecollarfraud.com.)

The tells that NQ's audits were sloppy are:

- Failure to ensure that disclosures about cash balances by entity are correct. (As we explain in NQ's Cash Balance (a Level 2 Asset) is Highly Likely to be Fraudulent, we suspect that much of the cash on NQ's balance sheet is not really there.)
- Classifying Cash and Equivalents as a Level 2 asset in 2012, and reclassifying 2011 Cash and Equivalents as Level 2. We cannot conceive of a circumstance under which Cash and Equivalents could be Level 2 assets. If this was not a sloppy mistake, then PwC should require NQ to disclose the special circumstances surrounding its Cash balance.
- Not booking restricted share issuance related to performance issuance.
- Failure to ensure that share-based compensation is recorded at the correct entity. •

<sup>&</sup>lt;sup>73</sup> NQ Q4 2012 earnings conference call.

<sup>&</sup>lt;sup>74</sup> NO Q2 2013 earnings conference call.

<sup>&</sup>lt;sup>75</sup> NO 2012 20-F, pp. 7-8.

 <sup>&</sup>lt;sup>76</sup> NQ Q2 2013 earnings conference call.
 <sup>77</sup> *id*.

- Failure to validate that receivables from NQ's largest purported trade debtor, Yidatong ("YDT"), are aged over four months beyond what the contracts permits.
- Permitting NQ to reclassify significant costs from Cost of Sales to R&D, which substantially boosted NQ's gross margin.

#### Cash

At December 31, 2011, the Company reported consolidated cash and cash equivalents of \$69 million and parent company cash of \$49 million. That means that \$20 million of cash was at the VIE and/or subsidiaries of the Parent. However, the VIE reported a net increase/(decrease) in cash and cash equivalents of \$66 million. With the amount of consolidated cash and cash held at the parent, and since the VIE lost money and the WFOE did not generate much cash, it is not possible for the VIE cash to increase by \$66 million. Therefore, the auditor failed to properly audit the change in cash and cash equivalents.

The consolidated term deposit balance was \$58.5 million and the parent co term deposit was \$0. Our view is that for the numbers to balance, the VIE would have to have invested in term deposits and that the increase in cash and cash equivalents would be lower by such amount. Our view is also that only source of cash to the VIE was from the IPO proceeds at the parent. Recall, our view is that the cash probably is no there at all and this is just a book keeping/balancing exercise.

Our analysis of the SAIC filings for 2011 confirm that the Company booked everything as cash and cash equivalents. However, this accounting is not correct under Chinese GAAP. Term deposits should be accounted for as an investment and not treated as cash and cash equivalents. Therefore, we can reasonably assume that the auditors did not check the bank account statements and have relied on the Company's internal reports for cash and cash equivalent disclosures. We question the audit procedures and if PWC has qualified accounting staff working on this audit. A basic back of the envelope calculation would show that it was not possible for cash and cash equivalents to have increased by the amount disclosed given the amount of cash and cash equivalents on a consolidated basis and at the parent level.

#### Level 2 Cash

It's hard to imagine a scenario where cash and cash equivalents would be a level 2 asset. But, surprisingly, the auditor classified 2012 cash and cash equivalents as a level 2 asset and also reclassified 2011 cash and cash equivalents to level 2 from level 1. According to a PwC FAS 157 information memorandum

Level 1 inputs – observable, quoted prices for identical assets or liabilities in active markets. Examples include US government and agency securities, foreign government debt, listed equities and money market securities.

Level 2 inputs – quoted prices for similar assets or liabilities in active markets; quoted prices for identical or similar assets in markets that are not active; and inputs other than quoted prices e.g.

interest rates and yield curves. Examples include corporate bonds (investment grade, high yield), mortgage-backed securities, bank loans, loan commitments, less liquid listed equities, municipal bonds and certain OTC derivatives.

Based on the definition of cash and cash equivalents, our view is that the auditor was either not able to verify the cash or it's just another sign of a sloppy audit. The reclassification of the 2011 cash is a concern since that would imply that the auditor did see something since none of the cash and cash equivalents was put into level 1 assets as one would expect.

As you can see from the level 2 definition, level 2 assets are much more risky and more difficult to value (compared to level 1 assets). The combination of cash at the VIE and the reclassification to Level 2 from Level 1 is a red flag. Especially, since we believe it was not transferred to the VIE in accordance with Chinese regulations.

#### **Share Based Compensation**

The Company is underreporting and misallocating share based compensation at the parent company. For 2012, the Company expensed \$24.5 million in share based compensation and disclosed \$1.84 million cash compensation to executive officers and directors. Over the same timeframe, the Company booked \$5.6mm of total G&A expenses (or 9% of total operating expenses) at the parent of which we believe no share based compensation was allocated. We believe that share based compensation was also not allocated to the parent operations in 2011 and 2010. First, the Company footnotes that share based compensation was included in the consolidated financial statements while no such footnote was included in the parent company footnotes. Second, our analysis of the VIE and WFOE 2011 financial data shows that a nominal amount, if any, share based compensation was accounted for at these operating entities. With the parent generating \$20 million in sales (approximately 22% of total sales) and the VIE and WFOE generating the majority of the remaining revenues, the accounting and allocation of share based compensation appears to be another sign of a sloppy audit. A substantial amount of the share based compensation was from US management and therefore should have been allocated to the parent in a much higher amount than shown.

# Yidatong is not paying pursuant to the terms of the contract or in line with normal trade terms.

The contract between Yidatong and NQ calls for settlement in one calendar month with payment on the 15<sup>th</sup> of the next calendar month. One calendar month settlement terms are normal trade terms and consistent with the contract between NQ and China Mobile which also call for one month settlement with payment being done on the 15<sup>th</sup> of each month<sup>78</sup>. One month settlement is what other carriers have told us as well as retailers that sell NQ apps, including Telefónica and Verizon resellers.

<sup>&</sup>lt;sup>78</sup> https://www.bj.10086.cn/Portals/0/revision/images/mwsphzglssdxywfc.pdf

Yidatong has DSO of more than 4 months. The actual realized payment terms are far beyond industry norms. This combined with the annual advances that NQ makes to Yidatong, and SAIC files that show much lower sales and amounts due to NQ, is a clear sign that something is wrong with this picture. What are the auditors looking at (or are they doing more listening that looking)?

#### **Reallocation of Costs to Boost Gross Margin.**

In order to give the appearance of high gross margins, the Company has reclassified a material amount of expenses from cost of goods sold to R&D. Based on our analysis of 2011 SAIC files, R&D expenses increased by 10x (or \$4.5mm) during consolidation as a result of a shift in costs.

	2011					
	Paren t	VIE	WFOE	Combined	Consolidation adj and other entities	Consolidated
US\$000						
Revenues, net	17,858	25,503	17,781	61,142	(20,471)	40,671
Cost of revenues	791	20,983	1,659	23,433	(15,376)	8,057
Gross profit	17,067	4,520	16,122	37,710	(5,096)	32,614
Operating expenses						
Selling and marketing expenses	1,575	2,259	5,547	9,381	(1,426)	7,955
General and administrative expenses*	1,083	2,056	2,055	5,195	8,829	14,024
Research and development expenses*	156	381	-	537	4,558	5,095
Total operating expenses	2,814	4,696	7,602	15,112	11,962	27,074

The Company discloses that most of the R&D is done in China. Therefore, it is surprising to see such a large increase in R&D and a related decrease in cost of goods sold. Also, there are incentives for Chinese companies to book as much to R&D as possible as a result of tax incentives.

## Appendix A: U.S. Store Visits

MSA	Store	Address	City	Carry NQ?	What % of new phone buying customers buy any NQ product or app?	Promotional Materials?
Atlanta	Diamond Wireless	3393 Peachtree Road NE, #19	Atlanta	Yes	Haven't started integrating NQ products yet	Not sure what happened to display
Atlanta	Go Wireless	3927 Buford Hwy NE, Suite D	Atlanta	Yes	2%-3%	Yes
Atlanta	Target	1275 Caroline Street NE	Atlanta	Yes	Hasn't sold one product in three weeks.	Yes
Atlanta	Target	2539 Piedmont Rd NE	Atlanta	Yes	10%	Yes
Atlanta	Target	5570 Roswell Road	Sandy Springs	Yes	5%	Yes
Atlanta	Target	2535 Dallas Hwy SW	Marrietta	Refused to Answer	N/A	None
Atlanta	Target	2600 Holcomb Bridge Drive	Alpharetta	Yes	None	No
Atlanta	Target	3935 Venture Dr	Duluth	Yes	None	Yes
Atlanta	Target	1405 Johnson Ferry Rd	Marrietta	Yes	None in the last month	Yes
Boston	Go Wireless	34 Whiting St Rt 53	Hingham	Yes	Sells 3-4 products per week on average, with a 20 per week maximum	Yes
Boston	Target	250 Granit St, Ste 21	Braintree	Yes	Around 1-2 products per month	No
Boston	Target	1167 Washington St	Hanover	Yes	None	Yes, but not on display.

Boston	Target	385 Centre Avenue	Abington	Yes	None	Yes, but had to retrieve from lower cabinet; brochures were still sealed in plastic wrap.
Boston	Target	1 Hawes Way	Stoughton	Yes	Around 3 products per month	None
Boston	Target	400 Cochituate Road	Framingham	Yes	None	None
Boston	TCC Wireless	373 Centre Avenue	Abington	Yes	25% of Android phones sold.	Yes
Boston	TCC Wireless	307 Boston Road	North Billerica	Yes	Around 50% of Android phones sold	Yes
Chicago	Target	2241 Willow Road	Glenview	Yes	5%-10%	No - they get brochures form the office on inquiry.
Chicago	Target	401 W Irving Park Road	Wood Dale	No, and they didn't know what the product was	N/A	N/A
Chicago	Target	60 Yorktown Shopping Ctr	Lombard	No, and they didn't know what the product was	N/A	N/A
Chicago	Target	1154 S Clark St	Chicago	Yes	None	None

Chicago	Target	1101 W Jackson Blvd	Chicago	No	N/A	N/A
Chicago	Target	2939 W Addison St	Chicago	No	N/A	N/A
Chicago	Target	2112 W Peterson Ave	Chicago	No	N/A	N/A
Chicago	TCC Wireless	13041 LaGrange Road	Palos Park	Refused to Answer	N/A	N/A
Chicago	TCC Wireless	2518 Greenbay Road	Evanston	Yes	50%-60%	Yes
Chicago	TCC Wireless	7261 W. Lake Street	River Forest	Yes	50%	Yes
Dallas	Diamond Wireless	6121 West Park Boulevard, #B 102	Plano	No, and had never heard of the product	N/A	N/A
Dallas	Target	2200 Dallas Pkway	Plano	Yes	Around 1-2 products per month	Yes
Dallas	Target	120 W Parker Rd	Plano	Yes	Around 1-2 products per month	Yes
Dallas	Target	4701 Lakeview Pkwy	Rowlett	Yes	None	Yes
Dallas	Target	16731 Coit Rd	Dallas	Yes	None	Yes
Dallas	Target	212 Medallion Shp Ctr	Dallas	Yes	None	Yes
Dallas	Target	2417 N Haskell Ave	Dallas	Yes	None	Yes
Dallas	Target	9440 Marsh Lane	Dallas	Yes	None	Yes, but difficult to find
LA	4G Wireless	8342 Lincoln Blvd	LA	Yes	None	Yes
LA	4G Wireless	1751 Artesia Blvd, Suite B	Manhattan Beach	No	N/A	N/A
LA	4G Wireless	8726 S Sepulveda Blvd, Suite C	LA	Yes	One product in three months	Yes

LA	Diamond Wireless	8014 Los Cerritos Center, #9014	Cerritos	No	N/A	N/A
LA	Target	1601 Kingsdale Ave	Redondo Beach	Yes	Only sold one so far	Yes
LA	Target	11525 South St	Cerritos	Yes	Approximately 15%	Yes
LA	Target	1200 N Sepulveda Blvd	Manhattan Beach	Yes	None	Yes
Miami	Target	300 Hollywood Mall	Hollywood	Yes	None	Yes, but brochures were in cabinet
Miami	Target	1750 W 37th St	Hialeah	Yes	Less than 1%	One flyer they were able to find after searching
Miami	Target	5601 NW 183rd St	Miami Gardens	Yes	Around two products per month	Store recently reorganized displays; NQ displays still in storage; ran out of brochures, and hasn't been able to get more
Miami	Target	5800 S University Dr	Davie	Yes	None	None
Miami	Target	20500 SW 112th Ave	Miami	Yes	1-2 products per month	None
Miami	Target	11253 Pines Blvd	Pembroke Pines	Yes	Very few, if any	None
Miami	Target	16901 Miramar Pkwy	Miramar	Yes	6-7 products in the last three months	Yes
Miami	Wireless	3331 Hollywood Blvd	Hollywood	Yes	0-1%	Yes
NYC	A Wireless	235 Propect Ave	West Orange	Yes	10%	None
NYC	Target	1598 Flatbush Ave	Brooklyn	Yes	Zero	None

NYC	Target	139 Flatbush Ave	Brooklyn	Yes	20%	Yes
NYC	Target	900 Bergen Town Ctr	Paramus	Yes	None	Yes, but in locked drawers, not displayed for customers
NYC	Target	100 14th St	Jersey City	No	None	None
NYC	Target	45 Central ave	Clark	No	None	None
NYC	Target	632 Route 46E	Fairfield	No	N/A	N/A
NYC	Target	100 Parsonage Road	Edison	Yes	Approximately 5%	Yes
Riverside	4G Wireless	2002 N Riverside Ave, Ste 103	Rialto	Had not received the products yet	N/A	Had materials, hadn't put them on display yet
Riverside	4G Wireless	12761 Moreno Beach Dr., Ste 102	Moreno Valley	Yes	Only a small percentage	Yes
Riverside	4G Wireless	497 E Alessandro Blvd, Suite C-1	Riverside	No	Used to offer NQ products, but discontinued because there were no sales	None
Riverside	Diamond Wireless	1299 Galleria At Tyler, #5549	Riverside	No	N/A	N/A
Riverside	Go Wireless	3782 Tyler Street, Suite A	Riverside	Yes	Only a few	Yes
Riverside	Go Wireless	1180 Hamner Ave, Suite A	Norco	Yes	Only a few	Yes
Riverside	Target	3333 Arlington Ave	Riverside	Yes	Only sold a few	Yes
Riverside	Target	2615 Tuscanny	Corona	Yes	Not sure	None
Riverside	Target	1290 Hamner Ave	Norco	Yes	None	Yes, but in locked cabinet not displayed for customers
San Francisco	4G Wireless	775 La Playa Dr	Hayward	Yes	None	Yes
San Francisco	4G Wireless	1398 Fitzgerald Dr	Pinole	Yes	None	None

San	4G	3631 Mount	Lafayette	Yes	10%	Yes
Francisco	Wireless	Diablo Blvd, Ste A				
San Francisco	4G Wireless	1513 Sloat Blvd	San Francisco	No	No	No
San Francisco	4G Wireless	2041 Ralston Drive	Belmont	Yes	Only 2 products so far	Yes
San Francisco	Diamond Wireless	1150 El Camino Real, K21	San Bruno	No	N/A	N/A
San Francisco	Target	1400 Fitzgerald Drive	Pinole	Yes	10%	Yes
San Francisco	Target	789 Mission Street	San Francisco	Yes	Only 1 product so far	Yes
San Francisco	Target	133 Serramonte Center	Daly City	Yes	None	Yes
San Francisco	Target	2220 Bridgepoint Pkwy	San Mateo	Yes	Don't know	Yes
Washington, DC	Target	25 Grand Corner Ave	Gaithersburg	Yes	10%	Yes
Washington, DC	Target	5700 Bou Ave	Rockville	Yes	20%	Yes
Washington, DC	Target	10301 New Guinea Rd	Fairfax	No	25%-30%	Yes
Washington, DC	Target	6600 Springfield Mall	Springfield	Yes	20%	Yes
Washington, DC	Target	2905 District Ave	Fairfax	Yes	15%	Yes, but not easy to find
Washington, DC	Target	3100 14th Street NW Ste 201	Washington	No	None	None
Washington, DC	TCC Wireless	6230-X Rolling Road	Springfield	No	None	No

## **Appendix B: SAIC Financial Fraud Indicia**

NQ's book cookers made the following tax-related errors in producing fraudulent financials for its various entities.

- Claiming that in 2011, NQ Beijing paid a sales tax called "Business Tax", rather than VAT. NQ claims that NQ Beijing began paying VAT in lieu of Business Tax in 2012 due to the expansion of a VAT pilot program to Beijing.<sup>79</sup> Software sales have been subject to VAT since 2001.<sup>80</sup> The VIE and WFOE obtained their software developer VAT certificates in 2006 and 2008, respectively. In order to maintain the VAT certificates, the companies would have needed to pay VAT on prior years software sales. The expansion of the pilot program to Beijing applied to industries other than software sales,<sup>81</sup> and thus would not have necessitated a sudden shift to VAT in 2012. The likely explanation is that the book cooker realized that because VAT is administered more closely than Business Tax, it was advantageous to claim NQ is a Business Tax payer; however, the 2012 VAT reform gave NQ less room to maneuver with its auditor.
- NQ Beijing's 2011 SAIC financials show that the company essentially paid no Business Tax, despite claiming that NQ Beijing was subject at the time to Business Tax of 3% to 5%.<sup>82</sup> NQ Beijing's 2011 income statement shows NQ Beijing's purported 2011 domestic revenue as being RMB 113.6 million. (Business Tax only applies to domestic revenue.) However, the income statement shows that NQ Beijing paid only RMB 8,000 (eight thousand) in Business Tax and surcharges in 2011. NQ Beijing should have paid at least RMB 3.4 million (340K, or 0.3% of revenue) in 2011 Business Tax.<sup>83</sup>
- In 2012, NQ Beijing's book cooker had the opposite problem. While the SEC filings claim that NQ Beijing began paying VAT in 2012, the SAIC income statement shows that NQ Beijing paid RMB 6.3 million in business tax on RMB 154.7 million in domestic sales. NQ Beijing should have paid far less in Business Tax and surcharges because at least 35% of the revenue should be taxed with VAT, in addition to the revenue being taxed with VAT under the pilot reform. Under PRC GAAP, VAT payments are not recorded in income statement accounts they are only shown only as taxes payable on the balance sheet. Therefore, the RMB 6.3 million is not mislabeled VAT. It is just another mistake NQ made because its financials are fraudulent.
- NQ Beijing's SAIC financials fail to recognize as Non-Operating Income any VAT credits or refunds received. Once again, NQ's book cooker struggled with the taxes relevant to revenues. To understand the VAT problem, one first needs to understand NQ's claim about NQ Beijing's income tax treatment. NQ claims that NQ Beijing receives a corporate income tax preference for qualified software companies. In order to

<sup>&</sup>lt;sup>79</sup> 2012 20F, p. F-29.

<sup>&</sup>lt;sup>80</sup> http://www.xm-n-tax.gov.cn/gswz/jsp/fgkcx/xl.jsp?bm=200506031617445742

<sup>&</sup>lt;sup>81</sup> http://www.chinatax.gov.cn/n8136506/n8136593/n8137537/n8138502/11735466.html

<sup>&</sup>lt;sup>82</sup> 2012 20F, p. F-29.

<sup>&</sup>lt;sup>83</sup> VAT for qualified software companies would be 3% of sales after refund. If all sales are VAT sales, the business tax and surcharge will be at least sales\*3%\*10% (10% surcharge rate)

qualify for this income tax preference, at least 35% of NO Beijing's revenue would have to come from software sales. At least half of the software sold must be developed inhouse.

The effective VAT for in-house developed software is 3% of sales, which consists of the 17% statutory VAT NQ pays on its software sales, netted against a) VAT it paid on its inputs, which are generally very low for software companies, and b) a credit or refund from the tax bureau sufficient to ensure the effective VAT is 3%. Again, NQ Beijing's SAIC financials show that its domestic revenue was RMB 113.6 million and RMB 154.7 million in 2011 and 2012, respectively.

PRC GAAP mandates that the VAT credit or refund be recognized as Non-Operating Income.<sup>84</sup> However, NO Beijing had no such income in either 2011 or 2012. If NO Beijing's SAIC financials were not fraudulent, they would show at least a few million RMB in Non-Operating Income in each year. Per a newsletter posted by the Haidian Tax Bureau (the tax bureau that receives taxes from NQ Beijing), cumulative VAT refunds to approximately 2,000 Haidian software companies in 2011 exceeded RMB 380 million (an average of about RMB 200,000 per company).<sup>85</sup>

- Omitting from NQ's 2011 prospectus a purported income tax preference for NQ Beijing. In the prospectus, NQ stated that NQ Beijing "was subject to the prevailing income tax rate of 25% on taxable income for the years ended 2008, 2009, and 2010."<sup>86</sup> However, in the 2011 20-F filed only 10 months later, NQ stated that NQ Beijing "was qualified as a software enterprise under the New CIT Law, which was entitled to enjoy preferential income tax treatment of income tax exemption for the first two years when it became profitable, followed by three years of preferential income tax rate of 12.5% up to 2015...Therefore, NetQin Beijing was not required pay any income tax for the years ended December 31, 2009, 2010, and 2011."<sup>87</sup> Omitting a tax preference from the prospectus is much less likely when the company's financials are genuine.
- NQ's SEC disclosures and SAIC financials show that NQ is shifting impermissibly high amounts of income from NQ's variable interest entity ("VIE") to NQ Beijing in order to avoid paving income tax. NO claims that NQ Beijing was exempt from corporate income tax in 2011, while the VIE paid corporate income tax at 15%.<sup>88</sup> Under NO's onshore corporate structure, the vast majority of NQ Beijing's 2011 revenue consisted of sales to the VIE. The year before (2010), NO Beijing only booked RMB 1.5 million in revenue, so the VIE would not have been shifting revenue to it until 2011.

By purporting to shift about two-thirds of the VIE's revenue to NQ Beijing in 2011, NQ lowered the VIE's gross margin from 62% in 2010 to 17% in 2011. Purportedly as a result of this shift, the VIE paid only RMB 106,000 in income taxes in 2011, which was

<sup>&</sup>lt;sup>84</sup> http://www.tisat.gov.cn/bd/0200/020002/20120508172346812.html

<sup>&</sup>lt;sup>85</sup> http://www.bjsat.gov.cn/BJSAT/qxfj/hd/sy/zfxxgk/zfxxgkml/gzdt/201112/t20111209 74408.html

<sup>&</sup>lt;sup>86</sup> 2012 20F, p. F-30. <sup>87</sup> 2011 F0F, p. F-28.

<sup>&</sup>lt;sup>88</sup> 2011 20F, p. F-28.

only 27.7% of the VIE's 2010 income taxes, while the VIE's purported revenue grew 193.2% in 2011.

NQ Beijing and the VIE are located in the same building and pay taxes to the same district tax office. PRC tax law requires business between related entities to be conducted at prices equivalent to those for arms length transactions.<sup>89</sup> It is implausible that the VIE would be permitted to shift this much profit from an entity that pays income taxes to one that does not.

The reason NQ's SAIC financials show this revenue shift is because the Company pays minimal PRC taxes because it has far less profit than it claims. The Company's SAIC and SEC financials are fraudulent.

• NQ claims that Beijing Feiliu ("FL Mobile" or "FL") pays no income tax in 2012 and 2013, and a reduced rate thereafter because it was approved for a software enterprise tax preference under the new tax law.<sup>90</sup> This is not true. The preference is only available for newly-established software companies. FL was established in 2009, but obtained qualified software company status only in 2011.<sup>91</sup> (FL would have gone through the qualification process after establishment in order to be eligible for VAT refunds.) In order to enjoy the tax holiday, FL would need to have obtained its qualification in 2010.

FL's tax preference (forgetting the qualification timing issue) would only be valid for two years from and including its first profitable year. NQ reported in its 20-F a US GAAP profit of \$119,000 in 2011 on sales of \$2.1 million (from SAIC).<sup>92</sup> It is unlikely that FL was unprofitable in 2011 for PRC tax accounting purposes. The claim that FL would not have to pay tax in 2013 seems to be another example of bungled tax treatment resulting from fraudulent accounting.

• NationSky's balance sheet shows too few taxes due as of December 31, 2012. NQ purports that Nation Sky generated \$12.6 million of revenue in 2012, although NationSky's SAIC financials actually show \$15.2 million of revenue. (The profit numbers are essentially the same though.) Chinese companies file monthly tax returns for VAT and Business Tax, while they file income tax returns on a quarterly basis. The yearend taxes payable balance should be at least approximately RMB 600,000. The balance sheet shows only RMB 38,000 payable.

Another suspicious element of NationSky's income statement is that its 2012 sales and marketing expenses of only \$479,000 seem too low to support a sales, presales, and marketing staff of over 80 people in 10 offices.

<sup>&</sup>lt;sup>89</sup> http://www.chinatax.gov.cn/n8136506/n8136593/n8137681/n8817331/n8817348/8820018.html.

<sup>&</sup>lt;sup>90</sup> NQ 2012 20F, p.F-37

<sup>&</sup>lt;sup>91</sup> http://www.chinasoftware.com.cn/GGDetail3.asp?sID=5897&ssID=233990#233990

<sup>&</sup>lt;sup>92</sup> NETC, FY 2011, 20F, F-35

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Beijing China Mobile 1 GT-S7568	-
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Beijing China Mobile 1 Huawei G510 -	-
Beijing China Mobile 1 Huawei G520 — Beijing China Mobile 1 Lenovo A278t Firewall	-
Beijing China Mobile I ZTE U808 360Safe Firewall	
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Guangzhou China Mobile Huawei G606 Mobile security	-
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Guangzhou China Telecom Huawei P6 Tencent Phone Secu Guangzhou China Telecom Samsung Note 3 N9006 —	ity -
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Guangzhou Suning Electronics Sony Xperia Z1	-
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Hebei China Telecom 3 Huawei Y300C	-
Hebei China Telecom 4 Huawei A199 Tencent Phone Secu Hebei China Telecom 5 Coolpad 5210D Tencent Phone Secu	ity -
Hebei China Telecom 5 Lenovo A820e Lenovo Security	
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Shanghai China Telecom 1 SCH-I959 AT321 Security	-
Shanghai China Unicom I Coolpad 7269 — Shanghai China Unicom I GT-N7102 —	-
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Shenzhen Gome-1 Sony XPERIA Z L36h	-
Shenzhen Gome-2 Samsung 18262D 3G	-
Shenzhen Mobile-1 HuaweiASCEND PG6 3G	-
Shenzhen Mobile-1 Lenovo I8258 3G	-
Shenzhen Mobile-2 Lenovo S8203G-3 Lenovo Security	-
Shenzhen Mobile-2 Nokia lumia920 3G-3	-
Shenzhen Mobile-2 Samsung 18268 — Shenzhen Mobile-3 Samsung GALAXY 18552 —	-
Shenzhen Mobile-3 Samsung GALAXY GRAND 19128	-
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Shenzhen Suning-2 Huawei P6 3G Security Assistant	-
Shenzhen Suning-2 TCL J630T — Shenzhen Suning-3 Lenovo S8903G Lenovo Security	-
Shenzhen Telecom-1 Huawei C8813 3G -	-
Shenzhen Telecom-1 Samsung 1879	-
Shenzhen Telecom-2 Lenovo S920 3G Lenovo Security Shenzhen Telecom-3 Sony XPERIA C S39h —	-
Shenzhen Unicom-1 Huawei G520 3G Security Assistan	-
Shenzhen Unicom-1 Lenovo P7803G Lenovo Security Shenzhen Unicom-2 Nokia720 3G-3 —	-
Shenzhen Unicom-3 Sony S39H 3G	-
Shenzhen Unicom-3 HTCDesire 609d 3G Tencent Phone Secu	ity -
Shenzhen Unicom-3 Sony M35C	

## **Appendix C: Software Engineer Report**

#### Data is sent from the App to NQ servers located in China

During our investigation we discovered that that app is communicates with remote servers. We extracted the domains and IP that the app reaches and researched the IP using open source tools and services such as "WhoIs". We were able to show that the sites are located and hosted in china, and are owned by NQ.

#### http://us.nqsrv.com - 211.151.59.8

Capturing from Microsoft	//I Capturing from Microsoft [Wireshark 1.6.5 (SVN Rev 40429 from /trunk 1.6)]							
<u>File Edit View Go Ca</u>	pture <u>A</u> nalyze <u>S</u> tatistics Telephony <u>T</u> o	ools Internals <u>H</u> elp						
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2 0.037460 19		192.168.137.185	DNS	88 Standard query response A 211.151.59.8				
3 0.043787 19		211.151.59.8	TCP	74 34933 > http [SYN] Seq=0 win=14600 Len=0 MSS=1460 SACK_PERM=1 TSval=1557				
4 0.423360 21 5 0.498006 19		192.168.137.185 211.151.59.8	TCP TCP	74 http > 34933 [SYN, ACK] Seq=0 Ack=1 Win=5792 Len=0 MSS=1380 SACK_PERM=1 66 34933 > http [ACK] Seq=1 Ack=1 Win=14656 Len=0 TSva]=155866 TSecr=332670				
6 0.499493 19	92.168.137.185	211.151.59.8	HTTP	867 POST /BOSS_US/UPSServlet HTTP/1.1 (application/octet-stream)				
7 0.824506 19 8 0.850587 19		192.168.137.1 192.168.137.185	DNS	79 Standard query A clients3.google.com				
10 0.884204 21	1.151.59.8	192.168.137.185	TCP	495 Standard query response CNAME clients.l.google.com A 194.90.196.37 A 194 66 http > 34933 [ACK] Seq=1 Ack=802 Win=7680 Len=0 TSval=3326707001 TSecr=1				
18 16.785034 21	11.151.59.8	192.168.137.185	HTTP	795 НТТР/1.1 200 ОК				
19 16.788173 21	11.151.59.8	192.168.137.185	TCP	66 http > 34933 [FIN, ACK] Seq=730 Ack=802 Win=7680 Len=0 TSval=3326722902				
Domain Name:	ngsrv.com							
Registrar:	Name.com LLC							
	e: 2014-01-09 05:11:41							
Creation Date:	2012-01-09 05:11:41							
Name Servers:								
-	srv.com							
ns2.ng	srv.com							
REGISTRANT CONT								
NetQin Mobile :	Inc.							
zhang guobao								
	Heping Li East Street	: 11						
	rict, Beijing, China							
beijing								
beijing								
100013								
CN								
Phone:	+86.1085655555							
Fax:	+86.1085655518							
Email Address:	zhanqquobao@netqin.co	m						
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CN								
Phone:	+86.1085655555							
Fax:	+86.1085655518							
Email Address:	<pre>zhanqquobao@netqin.co</pre>	m						

Server : 211.151.59.8 City : Beijing Country : China (CN)



We have also encountered requests to servers, which were not owned by NQ, but rather a 3<sup>rd</sup> party company named TalkingData, especially to:

http://tdcv3.talkingdata.net - 211.151.121.41

TalkingData is a company providing mobile data collection and statistical analysis platform, located in China.



Domain Name ta	alkingdata.net	
Sponsoring Registrar HI	ICHINA ZHICHENG TECHNOLOGY	LTD.
Name Server dr	ns21.hichina.com	
d	ins22.hichina.com	
Registrant ID HO	C-329766208-CN	
Registrant Name pa	an hierarch	
Registrant Organization Be	eijing tendcloud Co.Ltd	
Registrant Address Bl	ldg 2 11 Heping Li East St	Dongcheng District Beijing,
P.R.China		
Registrant City BH	EIJING	
Registrant Province/State BH	EIJING	
Registrant Postal Code 10	00013	
Registrant Country Code Cl	N	
Registrant Phone Number +8	86.13810520844	
Registrant Fax +8	86.13810520844	
Registrant Email hi		
Administrative ID HO	C-835631385-CN	
Administrative Name pa	an hierarch	
Administrative Organization Be	eijing tendcloud Co.Ltd	
Administrative Address B	ldg 2 11 Heping Li East St	Dongcheng District Beijing,
P.R.China		
Administrative City BH	EIJING	
Administrative Province/State BB	EIJING	
Administrative Postal Code 10	00013	
Administrative Country Code Cl	N	
Administrative Phone Number +8	86.01052458220 - 0000	
Administrative Fax +8	86.01052458220 - 0000	
Administrative Email hi	ierarch.pan@tendcloud.com	
Server : 211.151.126.90 (talkingdata.net)		

City : Beijing

Country : China (CN)



#### **Captured Data Communications**

In the limited amount of time we were able to detect the following communications:

Destination \ Trigger	Request	Response
Upon app loading, and	Http unencrypted	Http unencrypted
periodically while using the	communication – Data	communication – Data
App - TalkingData – 3 <sup>ed</sup>	encoded with GZip	encoded with GZip
party		
System Update (update of the	Http unencrypted	Http unencrypted
App) - NetQin	communication – Data in	communication – Data in
	plain text	plain text
Virus DB Update – NetQin	Http unencrypted	Http unencrypted
	communication – Data	communication – Data
	encrypted with AES, and	encrypted with AES, and
	containing the XOR'ed AES	containing the XOR'ed AES
	key.	key.
Maliciose URL Protection,	Http unencrypted	Http unencrypted
upon browsing to a website –	communication – Data (URL	communication – Data in
NetQin	address) XOR'ed	plain text

#### TalkingData.net – 3rd party Chinese service provider

Communication with Talking-Data's Servers is made throughout their app.

The sent data is delivered to their servers at - tdcv3.talkingdata.net (211.151.121.41)

The Request is an HTTP POST request to '/g/d'.

All packets are sent compressed with GZIP.

The packet that we have decoded contained potentially private information such as:

- Device Model
- Carrier
- GSM Cell information
- Wi-Fi SSIDs + percentage of reception

This information packet is sent periodically, and upon app loading.

Such information shouldn't be shared with NQ or any other 3rd party.

The leaked information could lead to targeted attacks and reveal sensitive details about the user/device such as current location using Wi-Fi signals triangulation, device model/version for targeting specific exploitation methods etc.

#### Software Update

On the main screen of the application, there is a menu button on the top right corner. Clicking the "More" button of that menu, opened a new screen with a 'Check for updates' button. Clicking this button, the app

sends a plain-text request which contains among other things the IMSI and IMEI inside a readable XML format.

	osoft (Wireshark 1.6.5 (SVN Rev 40429 from /t				C Follow TCP Stream
File Edit View Go	Capture Analyze Statistics Telephony	Tools Internals Help			Stream Content
	88X289 4 + 4			🖬 🕅 🛤 🌜 🕅	
					POST /BOSS_US/UPSServlet HTTP/1.1
Filter: tcp.stream eq1	or dns	<ul> <li>Expression Cli</li> </ul>	car Apply		Connection: close
No. Time	Source	Destination	Protocol L	noth Info	Content-Type: application/octet-stream User-Agent:
1 0.000000		192.168.137.1	DNS	72 Standard guery A us.ngsrv.com	Host: us.ngsrv.com
	192.168.137.1	192.168.137.185	DNS	88 Standard guery response A 211.151.59.8	Accept-Encoding: gzip Content-Length: 554
	192.168.137.185	211.151.59.8	TCP	74 34933 > http [SYN] Seq=0 win=14600 Len=0 MSS=1460 SACK_PERM=1 TSval=15577	
	211.151.59.8	192.168.137.185	TCP	74 http > 34933 [SYN, ACK] Seq=0 Ack=1 win=5792 Len=0 MSS=1380 SACK_PERM=1 1	<request></request>
	192.168.137.185	211.151.59.8 211.151.59.8	ТСР НТТР	66 34933 > http [ACK] Seq=1 Ack=1 Win=14656 Len=0 TSval=155866 TSecr=3326706 867 POST /8055_US/UPSServlet HTTP/1.1 (application/octet-stream)	<protocol>2.2.1</protocol> <command/> 6
0 0.499493	192.168.137.185 192.168.137.185	211.151.59.8 192.168.137.1	DNS	79 Standard guery A clients3.google.com	«ClientInfo»
	192.168.137.1	192.168.137.185	DNS	495 Standard query response CNAME clients.l.google.com A 194.90.196.37 A 194.	. <pre>_dodel type="5"&gt;GT=I  .<tanguage>1</tanguage></pre>
	211.151.59.8	192,168,137,185	TCP	66 http > 34933 [ACK] Seg=1 Ack=802 win=7680 Len=0 TSva]=3326707001 TSecr=15	<pre><country> </country></pre>
18 16.785034	4 211.151.59.8	192.168.137.185	HTTP	795 HTTP/1.1 200 OK	<pre><imei> 6</imei> <imsi> 9</imsi></pre>
	3 211.151.59.8	192.168.137.185	TCP	66 http > 34933 [FIN, ACK] seq=730 Ack=802 win=7680 Len=0 Tsval=3326722902 1	<timezone>2</timezone>
	4 192.168.137.185	211.151.59.8	TCP	66 34933 > http [ACK] Seq=802 Ack=730 Win=16064 Len=0 TSval=159143 TSecr=332	<up><li><updatetype>1</updatetype></li></up>
	0 192.168.137.185	211.151.59.8	TCP	66 34933 > http [FIN, ACK] Seq=802 Ack=731 win=16064 Len=0 TSval=159145 TSec	
	9 211.151.59.8	192.168.137.185	TCP	66 http > 34933 [ACK] Seq=731 Ack=803 win=7680 Len=0 TSval=3326723389 TSecr	<ul> <li></li></ul> <li> <li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li>
	2 fe80::14d7:11b6:1fc5:753b 9 192.168.137.1	ff02::1:3 224,0.0.252	LLMNR	84 Standard guery A wpad 64 Standard guery A wpad	
	9 192.168.137.1 0 fe80::14d7:11b6:1fc5:753b	224.0.0.252 ff02::1:3	LLMNR	64 standard query A wpad 84 Standard query A wpad	<serviceinfo> .<service>3</service></serviceinfo>
26 43, 967111	1 192.168.137.1	224.0.0.252	LLMNR	64 Standard guery A wpad	<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.<pre>.</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
	9 192.168.137.185	192,168,137,1	DNS	81 Standard query A tdcv3.talkinodata.net	. <wapmurl status="1"></wapmurl>
41 64.356350	0 192.168.137.1	192.168.137.185	DNS	97 standard query response A 211.151.121.41	 <versioninfo "="" 4"="" os="" version="1"></versioninfo> .⊲Module 1g="2" version="2" />
Ethernet II, 5     Internet Roots	Src: pcol version 4, Src: 192,168,137,	1 (192 168 127 1)	DET: 224 (	0.252 (224.0.0.252)	
	Protocol. Src Port: 63942 (63942			.0.232 (224.0.0.232)	HTTP/1,1 200 OK
	Iticast Name Resolution (query)		(,		server: nainx/1.2.8
					Date: content-Length: 557
					Connection: close
					Pragma: No-cache Cache-Control: no-cache
					Expires: 0
					xml version="1.0" encoding="UTF-8"? <reply></reply>
					<command/> 1
					<errorinfo> <reason>4</reason></errorinfo>
					«userInfo»
					<blance>0</blance>
					<serviceinfo></serviceinfo>
					<service>3</service> <nextconnecttime>4020</nextconnecttime>
0000		^	E.		<level>32</level>
0010		.2			 <systemmessages display="1"></systemmessages>
0020 0030			ad		<pre>«Nessage type="2"&gt;Current version is the latest!</pre>
0050					
					<avmessages display="1"> <mt></mt></avmessages>
					<st></st>
					<content>Current version is the latest!</content> 
					Entire conversation (1530 bytes)
					Eind Save As Print ASCII EBCDIC Hex Dump C C Arrays @ Raw
					Elep Filter Out This Stream Slose
Microsoft: «live cap	ture in progress> File: C: Packets: 235 Displaye	ed: 45 Marked: 0			

This communication is delivered to NQ's servers - us.nqserv.com (211.151.59.8)

#### App leaks all the web browsing activities of the user:

It was discovered that the app sends every URL that is browsed in the device to a remote server located in China (211.151.74.173). The connection through which the data is sent is not encrypted, but rather obfuscated with an easily reversible method of XOR the URL with 0x6e. It means that the provider, and anyone that is "sniffing" the network has the ability to track the users and obtain all browsing habits of the user, and even in some cases get information that is much more critical such as usernames and password and session ids if they are transferred in the URL.

We have tested the effectiveness of the URL tester and it indeed detects malicious pages, and blocks it.

223 30.825939 192.168.137.230 211.151.74.173 HTTP 366 POST /url/checkReascon?lang=1 HTTP/1.1 (application/octet-stream)	
<ul> <li>B Frame 223: 366 bytes on wire (2928 bits), 366 bytes captured (2928 bits)         <ul> <li>B Ethernet II, Src:</li> <li>, Dst:</li> <li>Internet Protocol Version 4, Src: 192.168.137.230 (192.168.137.230), Dst: 211.151.74.173 (211.151.74.173)</li> <li>Transmission Control Protocol, Src Port: 38785 (38785), Dst Port: http (80), Seq: 1, Ack: 1, Len: 300</li> <li>Hypertext Transfer Protocol</li> <li>Media Type</li> </ul> </li> </ul>	
U000         46         54         54         50         21         51         00         04         41         65         65         70         74         HTP/1.1        Accept           0000         3a         20         2a         2f         2a         0d         0a         43         6f         6e         65         63         74         69         ft         : */*C         onnectio           0000         64         2d         54         79         06         5a         connectio         n:         close        Conten           0040         69         6f         6e         2f         6f         6a         74         65         61         74        Conten           0040         69         6f         6e         2f         6f         6a         74         65         61         6d           0040 <td>·</td>	·
$ \begin{array}{c} 00f0 \\ 0100 \\ 3a \\ 20 \\ 77 \\ 77 \\ 77 \\ 77 \\ 77 \\ 77 \\ 77$	E

#### <u>Update virus database</u>

The most visible part of the app is the 'Update virus database' button, this button is in charge of asking the user for a payment. When clicked it makes the application communicate with a server owned by NQ at ms-cm.nqsecurity.com (211.151.59.57) and sends encrypted data.

The request is an HTTP POST request to 'boss-cs-av-v4/app.htm.'

The data sent from the App to server:

- 10bytes 'newversion' XORed with 0x6e.
- 16bytes of encryption key XORed with 0x6e.
- Data encrypted with AES using the key just before it.

The data sent from the server to App:

- 16bytes of encryption key XORed with 0x6e.
- AES data following.

The content of the encrypted data is in XML format. It contains commands that look similar to the previously described XML in the plain-text communications. The command is an integer value that indicates the indicator "type" of command rather than a "exec-command".

Edit View Go Capture Analyze Statistics Telephony	m /trunk-1.6)]	74 Python Shell - C X
	_ Icols  nternals _Help 	File Edit Shell Debug Options Windows Help
er: tcp.stream eq 2 or dns		
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4 1.322195 192.168.137.1	192.168.137.185 DNS 180 Standard query response A 211.151.59. 211.151.59.57 TCP 74 59344 > http [SYN] seq=0 win=14600 Le	etae21955 05477464cb956af75727e 1455693d 0262210dd4655666a 191372900 1913224704a5106
6 1.692203 211.151.59.57 7 1.802139 192.168.137.185	192.168.137.185 TCP 74 http > 59344 [SYM, ACK] Seq=0 Ack=1 w 211.151.59.57 TCP 66 59344 > http [Ack] seq=1 Ack=1 win=14	10000000000000000000000000000000000000
8 1.804723 192.168.137.185 9 1.805241 192.168.137.185 10 2.175506 211.151.59.57	211.151.59.57 TCP 1434 [TCP segment of a reassembled POU] 211.151.59.57 HTTP 167 POST [8055:C5_AV_V4/app.htm HTTP/l.1 102.166.177.185 TCP 66 http > 59344 [ACK] seq-1 ACk-1369 win	9e042c55 {Ca265ctf3ed1b346ce a226e235 4355427f 2955427f
11 2.176076 211.151.59.57 12 3.174776 211.151.59.57	192.168.137.185 TCP 66 http > 59344 [ACK] Seq=1 Ack=1470 win 192.168.137.185 TCP 1414 [TCP segment of a reassembled PDU]	49354212 900006822/2592 8d986450 222006435286665 222006432268665 90766755 272005632268665
13 3.175250 211.151.59.57 14 3.175426 211.151.59.57	192.168.137.185 TCP 1414 [TCP segment of a reassembled PDU] 192.168.137.185 HTTP 1207 HTTP/1.1 200 OK (application/octet-s	0295541 935005026574950957 \$301944a2 2091940 2091940
15 3.237931 192.168.137.185 16 3.241017 192.168.137.185	211.151.59.57 TCP 66 59344 > http [Ack] seq=1470 Ack=2697 211.151.59.57 TCP 66 59344 > http [FIN, ACK] seq=1470 Ack=	bc283942e c22695fa983e48ca8596c ee09af1b0 6438877cef54cfba52c1
19 3.605831 211.151.59.57 21 3.951195 192.168.137.185	102.168.137.185         TCP         66 Inttp > 59344         [Ack] Seq=3839         Ack=1471           192.168.137.1         DNS         80 Standard query A api-android.boku.com           192.168.137.185         DNS         300 Standard query response CNAME api2.bol	
22 3.971599 192.168.137.1 24 4.027066 192.168.137.185 25 4.049181 192.168.137.1	192.168.137.185 DNS 300 Standard query response CNAME ap12.bo 192.168.137.1 DNS 76 Standard query A content.boku.com 192.168.137.185 DNS 296 Standard query response CNAME ap12.bo	ec394471 dff150462401324c3832b 59954b50 3de4c0cfd33c34e52f02e
148 84.891354 192.168.137.185 rame 14: 1207 bytes on wire (9656 bits), 12	192.168.137.1 DNS 77 Standard query A api-d. dropbox.com	10000360 00003760 00003760 00003760 00003760 0000377605760000 00003776957600000000 000037769576000000000000000000000000000000000
thernet II, Src: Internet Protocol Version 4, Src: 211,151,55	, DST: 9.57 (211.151.59.57), DST: 102.168.137.185 (102.168.137.185)	Ecc201da9 9CD21743062C743062C74306
ransmission Control Protocol, Src Port: htt 3 Reassembled TCP Segments (3837 bytes): #1 sypertext Transfer Protocol	tp (80), DST POPT: 59344 (59344), Seq: 2697, ACK: 1470, Len: 1141 12(1348), #13(1348), #14(1141)]	1 251 / E41 / S1 /
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Media Type: application/octet-stream; char	rset=UTF-8 (3552 bytes)	000101100+570/+4401500470745751546710+404710+404750065157+04001057+550000404+560400+56400+700045650+500040550+50004045550+50004045550+50004045550+50004045550+50004045550+50004045550+50004045550+50004045550+50004045550+50004045550+50004045550+500040450+500040450+5000400450+500040450+5000400450+500040450+5000400450+5000400450+5000400450+5000400450+50000400450+500000000
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0 a4 2d 97 4f 94 07 c3 c5 ab 7a 81 86 9e 0 86 de bc f5 99 10 76 9a 86 8d 20 4a 91 00 52 12 b3 1a de a5 cf 66 9a 51 c9 e2 93	td 24 d60zs. 8a d4 d4v	
0 28 a3 ae 52 20 3d ae cc 92 8f 66 ce fa 0 d0 ce 39 12 76 b6 94 33 d3 b0 7f d6 63 0 39 40 66 65 32 2f 59 56 fa 9b 78 80 7f	e2 15 65 (R =,f b7 d6 4b9.v.3cK b3 6b d7 @ste2/v(k	3813764731e0544538e656c7760e32fs1eeeed2ffff6f06c28534276941c1e167b567faa4b3cer759e36f26fcc03443054658eca6902ff6539k367b79609703 d969e8duze420030b4c059d8266a841852f7907ddb115361661c6f55460358b57207b3843dfbb23e46a9c1476064742b2aa3aa42ebb1e854766902a3a 283464622294970ba265c207d0a3660c4952e470b298c2aa20a4892a40338f4560ce8f7396b658b2db08d535b80bb0977502542dfb87524
0 62 8b a6 cb 26 49 ed c0 44 a3 ab 68 e0 0 bb a8 88 47 84 64 cb 95 8a f7 57 27 e1	12 b6 e0 b61. 0.h 45 57 e06.dW E	2 44 445222144 YO NU 45 454 67 YO NU 45 454 67 YO NU 45 754 754 754 754 754 754 754 754 754
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	00 c0 z0 x0 x0z.W Fe.t 74 d2 4b A.5bxt.K 75 fd 94 mvrq	>>> print dec(a,server) <'rami version="l.0" encoding="UIT-0">>
0 7e f5 ec fc f2 8f 5a 8c a4 56 1e 06 91 0 e6 42 38 ec f1 37 11 90 82 2a 8f 09 aa 0 ee 51 d3 b3 a6 86 63 66 f9 f6 aa 83 65	f C 96 afZ. V 31 d7 7a B8.7*1.z 74 8c 38 .0cfet.S	<pre>cResponse&gt; <protocol3a-nv 6.6<="" protocol3<br=""></protocol3a-nv></pre>
0 9e 54 aa b2 9b 8c 14 8f d5 3f 53 9a 98	54 6c 56 x.1# jph5.11[ a6 4c 20 .T	<command)14( command=""> <gessioninfo) (JserInfo)</gessioninfo) </command)14(>
me (1207 bytes) Reassembled TCP (3837 bytes)		<ul> <li><ul> <li><ul></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul>
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In response to this request, the server returns a response indicating the applications payment state. It indicates whether the user paid already for enabling some features.

It also specifies with which payment provider it should request payment from, and the amount of money. We saw Boku and Google wallet as providers.

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#### **Remote Code Execution**

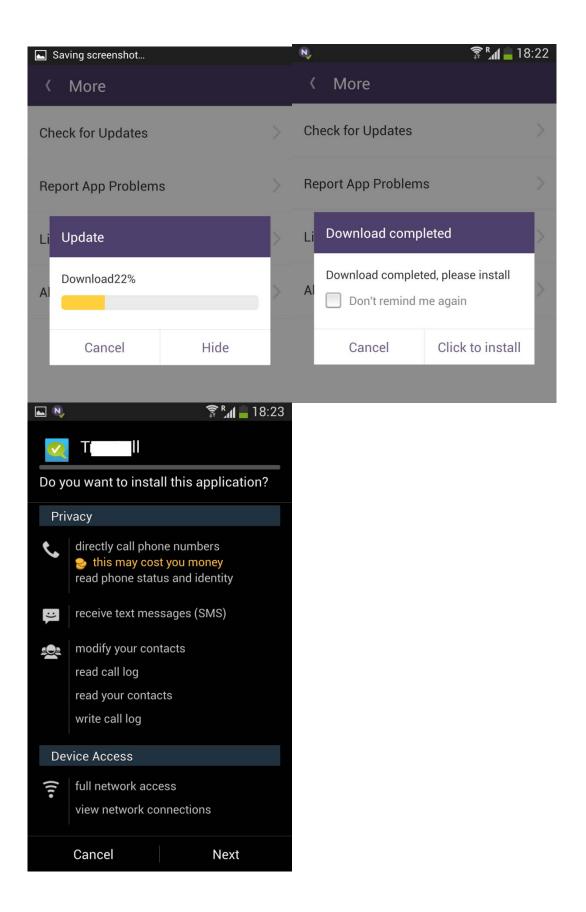
Goal: Determine if app allows remote code execution.

Process: Research the software update, request update from the server, and get a response. In this response, we saw there's a command value. We looked in the code and saw that there's another special command that is being processed which directs the application to download a file from the server or any address!

At that point of the research we set up an experiment where we did man-in-the-middle attack on the device, technically we edited the hosts file so the NQ server so that they will point to our HTTP server instead of NQ's one. The idea is to show that we got code execution on the device and so does NQ.

On our HTTP server we set up a response according to what we saw that the application expects. The response contains a different command value, which indicates to the client that it should download a file, and the URL of the file to download. Basically the file the protocol describes is supposed to be an .APK file. This file is later chmod'ed to become r+x so it could be executed later.

The application was properly installed but requires approval by user intervention.



Later on, we decided to go further and see whether we could override existing files and bypass the user intervention to get rid of the message box. We found out that if we change the returned XML without the message related fields, then no message box is displayed for the user.

This technically leads to remote code execution on the device. We have to emphasis that this is not a vulnerability in the code, in contrary, this is part of a normal flow control of the code and can be easily exploited to push files to the device which are controlled by the server and could be malicious!

The fact that the app is not using standard encryption is very odd especially when dealing with a company that is providing security products. Using standard SSL encryption could have prevented (or at least make it fairly impractical) this risk and others.