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UNITED STATES DISTRICT COURT  
FOR THE CENTRAL DISTRICT OF CALIFORNIA  
January 2020 Grand Jury

UNITED STATES OF AMERICA,  
  
Plaintiff,  
  
v.  
  
JON CHANG HYOK,  
aka "Quan Jiang,"  
aka "Alex Jiang,"  
KIM IL,  
aka "Julien Kim,"  
aka "Tony Walker," and  
PARK JIN HYOK,  
aka "Jin Hyok Park,"  
aka "Pak Jin Hek,"  
aka "Pak Kwang Jin,"  
  
Defendants.

CR 2:20-cr-00614-DMG  
  
I N D I C T M E N T  
  
[18 U.S.C. § 371: Conspiracy; 18  
U.S.C. § 1349: Conspiracy to  
Commit Wire Fraud and Bank Fraud;  
18 U.S.C. §§ 982, 1030: Criminal  
Forfeiture]

The Grand Jury charges:

INTRODUCTORY ALLEGATIONS AND DEFINITIONS

At times relevant to this Indictment:

A. The Conspiracy and Defendants

1. The Democratic People's Republic of Korea ("DPRK"), also known as ("aka") North Korea, operated a military intelligence agency called the Reconnaissance General Bureau ("RGB"). The RGB was headquartered in Pyongyang, DPRK, and comprised multiple units.

1           2.     Defendants JON CHANG HYOK (전창혁), aka "Quan Jiang," aka  
2 "Alex Jiang"; KIM IL (김일), aka "Julien Kim," aka "Tony Walker"; and  
3 PARK JIN HYOK (박진혁), aka "Jin Hyok Park," aka "Pak Jin Hek," aka  
4 "Pak Kwang Jin" (collectively, the "defendants"), whose photographs  
5 are attached as Exhibit A through Exhibit C, respectively, were  
6 members of units of the RGB who knowingly and intentionally conspired  
7 with each other, and with persons known and unknown to the Grand Jury  
8 (collectively, with the defendants, referred to as the "conspirators"  
9 and the "hackers"), to conduct criminal cyber intrusions.

10           3.     The defendants and other conspirators resided in the DPRK,  
11 but, at times during the operation of the conspiracy, traveled to and  
12 worked from other countries -- including the People's Republic of  
13 China and the Russian Federation -- while employed by units of the  
14 RGB. The conspirators included members of units of the RGB that have  
15 come to be known within the cyber-security community as both Lazarus  
16 Group and Advanced Persistent Threat 38 ("APT38").

17           4.     The conspirators hacked into the computers of victims to  
18 cause damage, steal data and money, and otherwise further the  
19 strategic and financial interests of the DPRK government and its  
20 leader, Kim Jong Un (the "DPRK regime"). In some instances, the  
21 hackers sought to cause damage through computer intrusions in  
22 response to perceived reputational harm or to obtain information  
23 furthering strategic interests of the DPRK regime. In many  
24 instances, the hackers intended the computer intrusions to steal  
25 currency and virtual currency (also known as "cryptocurrency"), or to  
26 obtain it through extortion, for the benefit of the DPRK regime --  
27 and, at times, for their own private financial gain. The hackers  
28 attempted to steal or extort more than \$1.3 billion from victims in

1 cyber-enabled heists and Automated Teller Machine ("ATM") cash-outs  
2 from banks, cyber-enabled heists from cryptocurrency companies, and  
3 cyber-enabled extortion schemes.

4         5. The hackers' victims and intended victims included  
5 entertainment companies, financial institutions, cryptocurrency  
6 companies (including cryptocurrency exchanges, traders, and  
7 marketplaces), online casinos, cleared defense contractors, energy  
8 utilities, and individuals. The hackers hacked and defrauded victims  
9 around the world -- including in Bangladesh, Malta, Mexico,  
10 Indonesia, Pakistan, the Philippines, Poland, the Republic of Korea,  
11 Slovenia, Taiwan, the United Kingdom, Vietnam, Central America, and  
12 Africa -- as well as in the United States and, specifically, the  
13 Central District of California. The hackers targeted victims in  
14 numerous other countries, as well, and used infrastructure and online  
15 accounts from around the world in furtherance of the computer  
16 intrusions, including infrastructure located in the Central District  
17 of California.

18         6. The computer intrusions often started with fraudulent,  
19 spear-phishing messages -- emails and other electronic communications  
20 designed to make intended victims download and execute malicious  
21 software ("malware") developed by the hackers. At other times, the  
22 spear-phishing messages would encourage intended victims to download  
23 or invest in a cryptocurrency-related software program created by the  
24 hackers, which covertly contained malicious code and/or would  
25 subsequently be updated with malicious code after the program was  
26 downloaded (a "malicious cryptocurrency application"). To hone the  
27 spear-phishing messages, the hackers would conduct internet research  
28 regarding their intended victims and would send "test" spear-phishing

1 messages to each other or themselves. The hackers employed false and  
2 fraudulent personas when they sent spear-phishing messages to  
3 victims.

4 7. Once they gained access to a victim computer system, the  
5 hackers would conduct research within the system, attempt to move  
6 laterally within a computer network, and attempt to locate and  
7 exfiltrate sensitive and confidential information. In both revenge-  
8 and financially-motivated computer attacks, the hackers would, at  
9 times, execute commands to destroy computer systems, deploy  
10 ransomware, or otherwise render the computers of their victims  
11 inoperable.

12 8. The hackers took steps to avoid detection and attribution  
13 of their computer intrusions to themselves, the RGB, and the DPRK.  
14 However, the computer infrastructure and online accounts used in the  
15 computer intrusions, and technical similarities in the malware  
16 employed, connected these computer intrusions with the hackers,  
17 showing that (a) the defendants and other hackers were conspiring  
18 with one another, (b) they were members of the RGB, and (c) the  
19 computer intrusions were part of a single hacking conspiracy.

20 B. The Hackers' Targets

21 Entertainment Companies

22 9. Sony Pictures Entertainment Inc. ("Sony Pictures") was an  
23 American entertainment company, headquartered in Culver City,  
24 California, that produced and distributed filmed entertainment,  
25 including the movie "The Interview," which depicted the fictionalized  
26 assassination of Kim Jong Un, whom it parodied. Sony Pictures  
27 maintained computer systems, including servers hosting employee data  
28 and servers hosting intellectual property, in Los Angeles County,

1 within the Central District of California, that operated in  
2 interstate and foreign commerce.

3 10. AMC Theatres was an American movie theater chain  
4 headquartered in Leawood, Kansas, which was set to show "The  
5 Interview" in its theaters prior to the cyber-attack on Sony  
6 Pictures.

7 11. Mammoth Screen was a United Kingdom television production  
8 company that was producing "Opposite Number," a ten-part fictional  
9 series about a British nuclear scientist on a covert mission who was  
10 taken prisoner in the DPRK.

11 Financial Institutions and Financial Regulators

12 12. The "African Bank" was a bank headquartered in a country in  
13 Africa.

14 13. Bangladesh Bank, the central bank of Bangladesh, was  
15 headquartered in Dhaka, Bangladesh.

16 14. Banco Nacional De Comercio Exterior, which is also known as  
17 "Bancomext," was a Mexican state-owned bank headquartered in Mexico  
18 City, Mexico.

19 15. The "Maltese Bank" was a bank headquartered in Malta.

20 16. BankIslami Pakistan Limited, which is also known as  
21 "BankIslami," was a bank headquartered in Karachi, Pakistan.

22 17. The "New York Financial Services Company" was a financial  
23 services company headquartered in New York, New York.

24 18. The Polish Financial Supervision Authority was the  
25 financial regulatory authority for Poland, and was based in Warsaw,  
26 Poland.

27 19. The "Philippine Bank" was a bank headquartered in Makati,  
28 Philippines.

1 20. Far Eastern International Bank was a bank headquartered in  
2 Taipei, Taiwan.

3 21. The "Vietnamese Bank" was a bank headquartered in Hanoi,  
4 Vietnam.

#### 5 Cryptocurrency Companies

6 22. The "Indonesian Cryptocurrency Company" was a  
7 cryptocurrency exchange based in Jakarta, Indonesia.

8 23. The "South Korean Cryptocurrency Company" was a  
9 cryptocurrency exchange based in the Republic of Korea.

10 24. The "Slovenian Cryptocurrency Company" was a crypto-mining  
11 company headquartered in Ljubljana, Slovenia.

#### 12 Online Casino Companies

13 25. "Central American Online Casino 1" was an online casino  
14 business headquartered in a Central American country.

15 26. "Central American Online Casino 2" was an online casino  
16 business headquartered in a Central American country.

#### 17 C. Definitions

18 27. An Internet Protocol version 4 address, also known as an  
19 "IPv4 address," or more commonly an "IP address," is a set of four  
20 numbers or "octets," each ranging from 0 to 255 and separated by a  
21 period (".") that is used to route traffic on the internet. A single  
22 IP address can manage internet traffic for more than one computer or  
23 device, such as in a workspace or when a router in one's home routes  
24 traffic to one's desktop computer, as well as one's tablet or  
25 smartphone, while all using the same IP address to access the  
26 internet.

27 28. "Malware" is malicious computer software intended to cause  
28 a victim computer to behave in a manner inconsistent with the

1 intention of the owner or user of the victim computer, usually  
2 unbeknownst to that person. The hackers developed and used numerous  
3 types of malware, including worms, ransomware, credential-stealers,  
4 key-loggers, screen-grabbers, and backdoors.

5 29. "Brambul" is a type of "worm" malware that spreads through  
6 self-replication by infecting new victim systems via brute force  
7 attacks on the victim's Server Message Block ("SMB") protocol. SMB  
8 is a method that Microsoft systems use to share files on a network.  
9 A brute force attack is a computer network attack that attempts to  
10 login to a potential victim computer, server, or account using a  
11 predetermined list of possible username and password combinations,  
12 which lists often contain thousands of common combinations of  
13 usernames and passwords that include specific default settings used  
14 on certain applications and devices. Upon successfully gaining  
15 access to a victim computer, Brambul conducts a survey of the victim  
16 machine and collects information, including the victim's IP address,  
17 system name, operating system, username last logged in, and last  
18 password used. Brambul then sends that information via Simple Mail  
19 Transfer Protocol to one or more of the email addresses ("Brambul  
20 collector accounts") that are hard-coded in Brambul.

21 30. "Ransomware" is a type of malware that infects a computer  
22 and encrypts some or all of the data or files on the computer, and  
23 then demands that the victim pay a ransom in order to decrypt and  
24 recover the files, or in order to prevent the hacker from  
25 distributing or destroying the data.

26 31. A "watering hole" is a type of computer intrusion technique  
27 in which a hacker uses malware to compromise a website known to be  
28 visited by intended victims. The malware then infects the computers

1 of intended victims (and sometimes unintended victims) who visit the  
2 website, giving the hacker access to the victims' computers and  
3 networks.

4 32. "Command and control" IP addresses or domains -- sometimes  
5 referred to as "C2s" -- are computers with which malware communicates  
6 to send and receive data and commands.

7 33. A "spear-phishing" message is a tailored and personalized  
8 email or other electronic communication designed to appear legitimate  
9 in order to induce the targeted recipient(s) to take a certain action  
10 -- such as clicking on a link, or downloading or opening a file --  
11 that would cause a victim's computer to be compromised by a hacker.  
12 Spear-phishing messages often include information that the hacker  
13 knows about the recipient(s) based on research or other sources of  
14 information about the intended victim.

15 34. "Cryptocurrency" or "virtual currency" is a digital asset  
16 designed to work as a medium of exchange that uses cryptography to  
17 secure financial transactions, control the creation of additional  
18 units of the currency, and verify and transfer assets.  
19 Cryptocurrency is typically accessed using secret or private  
20 encryption "keys" which are commonly stored using a software  
21 "wallet." Cryptocurrency "exchanges" are clearinghouses that allow  
22 for the exchange between different types of cryptocurrencies, or  
23 between cryptocurrency and fiat currency. "Crypto-mining" is a means  
24 of generating new units of cryptocurrency.

25 35. An "initial coin offering" or "ICO" is the cryptocurrency  
26 equivalent of a stock's Initial Public Offering or "IPO" -- that is,  
27 a cryptocurrency developer's first offer to sell a stake in a  
28 cryptocurrency to the public.





1           d.    to transmit in interstate and foreign commerce, with  
2 the intent to extort money and other things of value, a communication  
3 containing (i) a threat to cause damage to a protected computer,  
4 (ii) a threat to impair the confidentiality of information obtained  
5 from a protected computer without authorization, and (iii) a demand  
6 and request for money and other things of value in relation to damage  
7 to a protected computer, where such damage was caused to facilitate  
8 the extortion, in violation of Title 18, United States Code,  
9 Section 1030(a)(7)(A)-(C), (c)(3)(A).

10 B.   MEANS BY WHICH THE OBJECTS OF THE CONSPIRACY WERE TO BE  
11       ACCOMPLISHED

12           38. The objects of the conspiracy were to be accomplished, in  
13 substance, as follows:

14                       Development and Dissemination of Malware

15           a.    The hackers would develop malware that could be  
16 transmitted to potential victims in order to gain unauthorized access  
17 to the computer(s) of the victims. Such malware would include the  
18 Brambul worm, ransomware, and other types of malware.

19           b.    At times, the hackers would conceal the malware within  
20 seemingly legitimate word processing documents or software  
21 applications, including programs related to cryptocurrency trading  
22 (i.e., malicious cryptocurrency applications), which the hackers  
23 would falsely and fraudulently, and through the omission of material  
24 facts, market as being legitimate software applications. Malicious  
25 cryptocurrency applications would contain, or would through a  
26 subsequent software update process be updated to contain, malicious  
27 code that would provide the hackers with unauthorized access to the  
28 computers of persons who downloaded the applications.

1           c.    At other times, the hackers would conceal the malware  
2 within legitimate websites in order to infect victims visiting the  
3 websites (i.e., a watering hole).

4           d.    Defendants JON CHANG HYOK, KIM IL, PARK JIN HYOK, and  
5 other conspirators, would register and use email and social media  
6 accounts in false and fraudulent names -- including the names of real  
7 persons -- to use in gaining unauthorized access to victim computers,  
8 including to contact potential victims, send spear-phishing messages,  
9 register other accounts used by the hackers, and/or serve as Brambul  
10 collector accounts.

11           e.    Hackers would use the internet to research potential  
12 victims with whom they would attempt to communicate.

13           f.    Defendants JON CHANG HYOK, KIM IL, and other  
14 conspirators, would communicate with potential victims using false  
15 and fraudulent names, sending spear-phishing messages or electronic  
16 messages designed to establish a relationship with the intended  
17 victim before sending a later spear-phishing message. The hackers  
18 would communicate with individuals in a variety of sectors, including  
19 entertainment companies, financial institutions, hundreds of  
20 cryptocurrency companies, online casinos, cleared defense  
21 contractors, energy utilities, technology companies, and government  
22 agencies.

23           g.    Defendants JON CHANG HYOK, KIM IL, and other  
24 conspirators, would send misleading and fraudulent communications to  
25 potential victims containing malware or directing the potential  
26 victims to download malware, including malicious cryptocurrency  
27 applications, ransomware, and other malware.

28

1           h.    At times, to carry out computer intrusions or  
2 attempted intrusions, hackers would use or access computer  
3 infrastructure that they had compromised through the Brambul worm or  
4 a watering hole.

5                   Destructive Cyberattacks, and Attempted Cyberattacks,  
6                                   on Entertainment Companies

7           i.    After malware was installed on the computer(s) of an  
8 intended victim entertainment company, the hackers would use the  
9 malware to access the computer(s) without authorization and install  
10 other malware.

11           j.   The hackers would then access the computer(s) of the  
12 victim entertainment company without authorization and attempt to  
13 access other computer systems connected to the computer(s) to steal  
14 confidential credentials, files, data, unreleased movies, and other  
15 information that could be damaging or embarrassing to the  
16 entertainment company.

17           k.   The hackers would then install destructive malware on  
18 the victim entertainment company's computers, which malware could be  
19 used to destroy or impair the computers and render them inoperable,  
20 and to conceal forensic evidence of the hackers' unauthorized access.

21           l.   After successfully installing destructive malware on  
22 computers of the victim entertainment company, the hackers would, at  
23 a later date, make threatening communications to the victim  
24 entertainment company using false and fraudulent personas, publicly  
25 disseminate the victim entertainment company's confidential internal  
26 information, and activate destructive capabilities of the malware the  
27 hackers previously installed in order to destroy or impair the victim  
28 entertainment company's computers and render them inoperable.



1 access the computer(s) without authorization and install other  
2 malware.

3 s. The hackers would then access the computer(s) of the  
4 extortion victim without authorization and attempt to access other  
5 computer systems connected to the computer(s) to steal confidential  
6 credentials, files, data, and other information that could be  
7 damaging or embarrassing to the extortion victim.

8 t. At times, the hackers would install ransomware on the  
9 computer(s) of the extortion victim in order to render the  
10 computer(s) inaccessible and inoperable.

11 u. The hackers would then communicate with the extortion  
12 victim, demanding a payment in a cryptocurrency, such as Bitcoin, in  
13 exchange for not publicly releasing the extortion victim's files that  
14 had been stolen or unencrypting any computers infected by ransomware.

15 v. The hackers would, at times, offer to tell the  
16 extortion victim how the hackers had accessed the extortion victim's  
17 computer(s) if additional ransom payments were made.

18 w. If the extortion victim did not pay the hackers'  
19 ransom demands, the hackers would threaten to -- and would in fact --  
20 publicly disseminate confidential information stolen from the  
21 computer(s) of the extortion victim, destroy the information and not  
22 return a copy, or leave the computer(s) of the victim encrypted with  
23 ransomware.

#### 24 Cryptocurrency Heists

25 x. After malware, such as a malicious cryptocurrency  
26 application, was installed on the computer(s) of an intended victim  
27 cryptocurrency company, the hackers would use the malware to access  
28 the computer(s) without authorization and install other malware.

1           y.    The hackers would access the computer(s) of the victim  
2 cryptocurrency company without authorization and attempt to move  
3 through the victim cryptocurrency company's computer network in order  
4 to access a computer that would provide access to the victim  
5 cryptocurrency company's cryptocurrency wallet(s) and private keys to  
6 the wallet.

7           z.    Once they had access to the wallet(s) and private keys  
8 of the victim cryptocurrency company, the hackers would fraudulently  
9 and without authorization transfer cryptocurrency from those wallets  
10 to wallets used and controlled by the hackers.

#### 11                           ATM Cash-Outs

12           aa.   After malware was installed on the computer(s) of an  
13 intended victim bank, the hackers would use the malware to access the  
14 computer(s) without authorization and install other malware.

15           bb.   The hackers would access the computer(s) of the victim  
16 bank without authorization and attempt to move through the victim  
17 bank's computer network in order to access one or more computers that  
18 the victim bank used to manage ATM transactions.

19           cc.   The hackers would develop and deploy malware  
20 customized to the computer network of the victim bank, in order to  
21 intercept ATM transaction data and cause fraudulent ATM withdrawal  
22 requests to be approved, which would cause a requesting ATM to  
23 dispense cash to money-launderer coconspirators.

24           dd.   The hackers also developed and deployed malware to  
25 conceal their point of access to the victim bank's computer network,  
26 their path through the victim bank's computer network, and the  
27 fraudulent ATM withdrawal requests.

28

1 C. OVERT ACTS

2 39. In furtherance of the conspiracy, and to accomplish its  
3 objects, defendants JON CHANG HYOK, KIM IL, and PARK JIN HYOK,  
4 together with others known and unknown to the Grand Jury, on or about  
5 the dates set forth below, committed and caused to be committed  
6 various overt acts, in the Central District of California and  
7 elsewhere, including, but not limited to, the following:

8 Destructive Cyberattacks, and Attempted Cyberattacks,  
9 on Entertainment Companies

10 Overt Act No. 1: Beginning on November 24, 2014, after  
11 sending threatening communications to Sony Pictures employees, the  
12 hackers initiated a destructive cyber-attack of Sony Pictures  
13 computers, publicly disseminated Sony Pictures' confidential data and  
14 communications stolen from its computers, and made further threats  
15 against the company and its employees.

16 Overt Act No. 2: On December 2 and 3, 2014, the hackers sent  
17 spear-phishing messages to AMC Theatres employees from multiple email  
18 accounts.

19 Overt Act No. 3: At an unknown date in 2015, the hackers  
20 gained unauthorized access to the computers of Mammoth Screen.

21 Cyber-Enabled Heists from, and Intrusions of, Banks

22 Overt Act No. 4: Beginning in or around November 2015, the  
23 hackers gained unauthorized access to the Philippine Bank's computer  
24 network, but did not succeed in making fraudulent wire transfers  
25 before the unauthorized access was detected and mitigated.

26 Overt Act No. 5: On December 9, 2015, having gained  
27 unauthorized access to the Vietnamese Bank's computer network at an  
28 earlier date, the hackers conducted false and fraudulent wire



1 transfers totaling approximately €2 million to bank accounts in  
2 Slovenia and Bulgaria, and attempted to conduct fraudulent wire  
3 transfers of approximately \$3.4 million to Russia, A\$1 million to  
4 Australia, and ¥90 million to Japan.

5 Overt Act No. 6: On February 4, 2016, having gained  
6 unauthorized access to Bangladesh Bank's computer network at an  
7 earlier date, the hackers attempted to conduct false and fraudulent  
8 wire transfers totaling approximately \$951 million, and conducted  
9 false and fraudulent wire transfers totaling approximately  
10 \$81 million to bank accounts in the Philippines and \$20 million to a  
11 bank account in Sri Lanka, which moneys all belonged to Bangladesh  
12 Bank and were held in accounts at the Federal Reserve Bank of New  
13 York.

14 Overt Act No. 7: On July 20, 2016, having gained unauthorized  
15 access to the African Bank's computer network at an earlier date, the  
16 hackers conducted false and fraudulent wire transfers totaling  
17 approximately \$104.1 million to bank accounts in Taiwan, Thailand,  
18 and Cambodia.

19 Overt Act No. 8: Beginning in or around October 2016, the  
20 hackers gained unauthorized access to the computer network of the  
21 Polish Financial Supervision Authority and made its website into a  
22 watering hole.

23 Overt Act No. 9: On October 3, 2017, having gained  
24 unauthorized access to Far Eastern International Bank's computer  
25 network at an earlier date, the hackers conducted false and  
26 fraudulent wire transfers totaling approximately \$60.1 million to  
27 bank accounts in Sri Lanka, Cambodia, and the United States.

28

1           Overt Act No. 10:    On January 9, 2018, having gained  
2 unauthorized access to Bancomext's computer network at an earlier  
3 date, the hackers conducted false and fraudulent wire transfers  
4 totaling approximately \$110 million to bank accounts in the Republic  
5 of Korea, and then deployed malware on more than 400 of Bancomext's  
6 computers.

7           Overt Act No. 11:    In January and February 2019, defendant KIM  
8 IL or another hacker communicated with unindicted coconspirator  
9 Ghaleb Alaumary regarding bank accounts that could receive false and  
10 fraudulent wire transfers from the Maltese Bank.

11           Overt Act No. 12:    On February 12, 2019, having gained  
12 unauthorized access to the Maltese Bank's computer network at an  
13 earlier date, the hackers conducted false and fraudulent wire  
14 transfers totaling approximately \$6.4 million and €7.1 million to  
15 bank accounts in Hong Kong, the United Kingdom, the United States,  
16 and the Czech Republic.

17                           Cyber-Enabled Extortions and Ransomware

18           Overt Act No. 13:    On or before May 12, 2017, the hackers  
19 authored the ransomware used in a global, destructive cyber-attack  
20 known publicly as WannaCry Version 2.

21           Overt Act No. 14:    On June 29, 2017, having gained unauthorized  
22 access to a computer system at an earlier date and stolen  
23 confidential customer information of the South Korean Cryptocurrency  
24 Company, the hackers publicly released that information after the  
25 South Korean Cryptocurrency Company refused to pay a ransom of  
26 approximately \$16 million in cryptocurrency.

27           Overt Act No. 15:    On August 24, 2017, having gained  
28 unauthorized access to a computer system of a victim company at an

1 earlier date, the hackers deployed ransomware on the computer system  
2 and then extorted payments totaling approximately \$100,000 in  
3 cryptocurrency from the victim.

4 Overt Act No. 16: On October 13, 2017, having gained  
5 unauthorized access to the computer network of Central American  
6 Online Casino 1 at an earlier date and stolen its confidential  
7 customer information, the hackers extorted payments totaling  
8 approximately \$2.3 million in cryptocurrency from Central American  
9 Online Casino 1.

10 Overt Act No. 17: On November 2, 2017, having gained  
11 unauthorized access to the computer network of Central American  
12 Online Casino 2 at an earlier date and stolen its confidential  
13 customer information, the hackers extorted payments totaling  
14 approximately \$361,500 in cryptocurrency from Central American Online  
15 Casino 2.

#### 16 Malicious Cryptocurrency Applications

17 Overt Act No. 18: Beginning in March 2018, defendant JON CHANG  
18 HYOK and other hackers sent electronic communications, including  
19 spear-phishing messages, to numerous employees of cryptocurrency  
20 exchanges.

21 Overt Act No. 19: Beginning on or before May 15, 2018,  
22 defendant JON CHANG HYOK and other hackers developed Celas Trade Pro,  
23 which was purportedly cryptocurrency trading software, but which was,  
24 in reality, a malicious cryptocurrency application.

25 Overt Act No. 20: Beginning on June 18, 2018, defendant JON  
26 CHANG HYOK and other hackers sent electronic communications  
27 advertising Celas Trade Pro to numerous employees of cryptocurrency  
28 exchanges.

1           Overt Act No. 21:   Beginning on or before October 11, 2018,  
2 defendant JON CHANG HYOK and other hackers developed WorldBit-Bot,  
3 which was purportedly cryptocurrency trading software, but which was,  
4 in reality, a malicious cryptocurrency application.

5           Overt Act No. 22:   Beginning on November 14, 2018, defendant  
6 JON CHANG HYOK and other hackers sent electronic communications  
7 advertising WorldBit-Bot to employees of cryptocurrency exchanges.

8           Overt Act No. 23:   Beginning on or before March 6, 2019, the  
9 hackers developed iCryptoFx, which was purportedly a "Cryptocurrency  
10 Algo-Trading Tool," but which was, in reality, a malicious  
11 cryptocurrency application.

12           Overt Act No. 24:   Beginning on April 27, 2019, defendant KIM  
13 IL or another hacker created online accounts using false and  
14 fraudulent personas for purported employees of iCryptoFx, which were  
15 designed to make iCryptoFx appear to be a legitimate cryptocurrency  
16 program.

17           Overt Act No. 25:   Beginning on or before June 4, 2019,  
18 defendant JON CHANG HYOK and other hackers developed Union Crypto  
19 Trader, which was purportedly a cryptocurrency trading software, but  
20 which was, in reality, a malicious cryptocurrency application.

21           Overt Act No. 26:   On dates in April 2019 through July 2019,  
22 defendant JON CHANG HYOK and other hackers created online accounts  
23 using false and fraudulent personas for purported employees of Union  
24 Crypto Trader, which were designed to make Union Crypto Trader appear  
25 to be legitimate.

26           Overt Act No. 27:   Beginning on or before February 21, 2020,  
27 defendant JON CHANG HYOK and other hackers developed Kupay Wallet,  
28

1 which was purportedly cryptocurrency wallet software, but which was,  
2 in reality, a malicious cryptocurrency application.

3 Overt Act No. 28: Beginning on or before February 28, 2020,  
4 defendant JON CHANG HYOK and other hackers developed CoinGo Trade,  
5 which was purportedly cryptocurrency trading software, but which was,  
6 in reality, a malicious cryptocurrency application.

7 Overt Act No. 29: In early March 2020, defendant JON CHANG  
8 HYOK or another hacker sent electronic communications advertising and  
9 encouraging the download of Kupay Wallet.

10 Overt Act No. 30: In late March 2020, defendant JON CHANG HYOK  
11 or another hacker sent electronic communications advertising and  
12 encouraging the download of CoinGo Trade.

13 Overt Act No. 31: Beginning on or before March 30, 2020,  
14 defendant JON CHANG HYOK and other hackers developed Dorusio, which  
15 was purportedly cryptocurrency wallet software, but which was, in  
16 reality, a malicious cryptocurrency application.

17 Overt Act No. 32: On March 30, 2020, defendant JON CHANG HYOK  
18 or another hacker sent electronic communications advertising and  
19 encouraging the download of Dorusio.

20 Overt Act No. 33: Beginning on or before May 6, 2020,  
21 defendant JON CHANG HYOK and other hackers developed CryptoNeuro  
22 Trader, which was purportedly cryptocurrency trading software, but  
23 which was, in reality, a malicious cryptocurrency application.

24 Overt Act No. 34: In late July 2020, defendant JON CHANG HYOK  
25 or another hacker sent electronic communications advertising and  
26 encouraging the download of CryptoNeuro Trader.

27 Overt Act No. 35: Beginning on or before September 1, 2020, a  
28 conspirator or conspirators developed Ants2Whale, which was

1 purportedly cryptocurrency trading software, but which was, in  
2 reality, a malicious cryptocurrency application.

### 3 Cryptocurrency Heists

4 Overt Act No. 36: On December 4, 2017, a conspirator sent a  
5 spear-phishing communication to an employee of the Slovenian  
6 Cryptocurrency Company, which included a hyperlink that redirected  
7 the employee to download a file containing malware.

8 Overt Act No. 37: On December 15, 2017, having gained  
9 unauthorized access to the computer network of the Slovenian  
10 Cryptocurrency Company at an earlier date, the hackers fraudulently  
11 transferred cryptocurrency, valued at approximately \$75 million, from  
12 the wallets of the Slovenian Cryptocurrency Company.

13 Overt Act No. 38: In March 2018 and April 2018, a conspirator  
14 sent spear-phishing communications to employees of the Indonesian  
15 Cryptocurrency Company.

16 Overt Act No. 39: On September 27, 2018, having gained  
17 unauthorized access to the computer network of the Indonesian  
18 Cryptocurrency Company at an earlier date, the hackers fraudulently  
19 transferred cryptocurrency, valued at approximately \$24.9 million,  
20 from the wallets of the Indonesian Cryptocurrency Company.

21 Overt Act No. 40: On August 7, 2020, having gained  
22 unauthorized access to the computer network of the New York Financial  
23 Services Company at an earlier date by using the CryptoNeuro Trader  
24 malicious cryptocurrency application, and using that unauthorized  
25 access to steal data that they would later use to attempt to extort  
26 the New York Financial Services Company, the hackers fraudulently  
27 transferred cryptocurrency, valued at approximately \$11.8 million,  
28 from the wallets of the New York Financial Services Company.

1 ATM Cash-Outs

2 Overt Act No. 41: On October 27, 2018, having gained  
3 unauthorized access to the computer network of BankIslami, the  
4 hackers caused fraudulent ATM withdrawal requests to be approved,  
5 which caused requesting ATMs to dispense approximately \$6.1 million  
6 to money-launderer coconspirators, including coconspirators acting at  
7 the direction of unindicted coconspirator Ghaleb Alaumary.

8 Additional Spear-Phishing Campaigns

9 Overt Act No. 42: Beginning in March 2016 and continuing  
10 through August 2016, conspirators sent numerous spear-phishing  
11 communications to employees of United States cleared defense  
12 contractors, energy companies, and aerospace companies.

13 Overt Act No. 43: Beginning in February 2017 and continuing  
14 through May 2017, conspirators sent numerous spear-phishing  
15 communications to United States cleared defense contractors.

16 Overt Act No. 44: In November 2019, conspirators sent spear-  
17 phishing communications to the employees of the United States  
18 Department of State.

19 Overt Act No. 45: In January and February 2020, conspirators  
20 sent numerous spear-phishing communications to employees of the  
21 United States Department of State, the United States Department of  
22 Defense, and multiple United States technology companies.

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1           c.     Defendant KIM IL would contact individuals in  
2 Singapore, whom defendant KIM IL knew from when he previously lived  
3 in Singapore, regarding potential involvement in creating Marine  
4 Chain.

5           d.     Defendant KIM IL and other conspirators would, at  
6 other times, use false and fraudulent names when contacting  
7 individuals who they hoped would be involved in creating Marine  
8 Chain. In those instances, defendant KIM IL and other conspirators  
9 would not disclose to these individuals that the conspirators were  
10 DPRK citizens or that they were communicating using false and  
11 fraudulent names.

12           e.     Defendant KIM IL and other conspirators would raise  
13 funds for the Marine Chain platform through an ICO, which would, in  
14 part, entail communicating with potential investors using false and  
15 fraudulent names in order to convince them to invest in the Marine  
16 Chain platform. Defendant KIM IL and other conspirators would not  
17 disclose to these individuals that the conspirators were DPRK  
18 citizens or that they were communicating using false and fraudulent  
19 names. They also would not disclose to investors that a purpose of  
20 the Marine Chain Token was to evade United States sanctions on North  
21 Korea.

22           f.     Defendant KIM IL and other conspirators would attempt  
23 to receive approval from the Securities and Futures Commission of  
24 Hong Kong to trade the Marine Chain Token as a security.

25           g.     Defendant KIM IL and other conspirators would tokenize  
26 individual vessels on the Marine Chain platform, allowing investors  
27 to purchase ownership interests in marine shipping vessels.

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C. OVERT ACTS

43. In furtherance of the conspiracy, and to accomplish its objects, defendants JON CHANG HYOK, KIM IL, and PARK JIN HYOK, together with others known and unknown to the Grand Jury, on or about the dates set forth below, committed and caused to be committed various overt acts, in the Central District of California and elsewhere, including, but not limited to, the following:

Overt Act Nos. 1-45: The Grand Jury re-alleges and incorporates Overt Act Number 1 through Overt Act Number 45 of Section C of Count One of this Indictment here.

Overt Act No. 46: Beginning no later than October 31, 2017, defendant KIM IL and other conspirators communicated with each other regarding development of Marine Chain.

Overt Act No. 47: Beginning on November 28, 2017, while in Russia, defendant KIM IL communicated with individuals in Singapore about establishing Marine Chain.

Overt Act No. 48: On May 1, 2018, defendant KIM IL sent a final business plan for Marine Chain to a conspirator.



1 court; (d) has been substantially diminished in value; or (e) has  
2 been commingled with other property that cannot be divided without  
3 difficulty.

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8 TRACY L. WILKISON  
9 Attorney for the United States,  
10 Acting Under Authority Conferred  
11 by 28 U.S.C. § 515

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CHRISTOPHER D. GRIGG  
Assistant United States Attorney  
Chief, National Security Division

CAMERON L. SCHROEDER  
Assistant United States Attorney  
Chief, Cyber and Intellectual  
Property Crimes Section

ANIL J. ANTONY  
Assistant United States Attorney  
Deputy Chief, Cyber and  
Intellectual Property Crimes  
Section

KHALDOUN SHOBAKI  
Assistant United States Attorney  
Cyber and Intellectual Property  
Crimes Section

EXHIBIT A

JON CHANG HYOK,  
aka "Quan Jiang,"  
aka "Alex Jiang"



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EXHIBIT B

KIM IL,  
aka "Julien Kim,"  
aka "Tony Walker"



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EXHIBIT C

PARK JIN HYOK,  
aka "Jin Hyok Park,"  
aka "Pak Jin Hek,"  
aka "Pak Kwang Jin"



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