Case 3:22-cv-07513-JD Document 1 Filed 11/30/22 Page 1 of 41

1	PAUL HOFFMAN #71244	CARRIE DECELL**
2	JOHN WASHINGTON #315991	JAMEEL JAFFER**
	Schonbrun, Seplow, Harris,	ALEX ABDO**
3	Hoffman & Zeldes LLP	STEPHANIE KRENT**
4	200 Pier Avenue, Suite 226	EVAN WELBER FALCÓN**
т	Hermosa Beach, CA 90254 T: (424) 297-0114	Knight First Amendment Institute at Columbia University
5	F: (310) 399-7040	475 Riverside Drive, Suite 302
6	hoffpaul@aol.com	New York, NY 10115
6	nonpaul e aonoom	T: (646) 745-8500
7	Counsel for all Plaintiffs*	F: (646) 661-3361
	0 00	carrie.decell@knightcolumbia.org
8	*See Signature Page for Complete List of	
9	Plaintiffs	Counsel for all Plaintiffs*
10		**Application for Admission Pro Hac Vice
10		To Be Filed
11		
12	UNITED STATES DISTRICT COURT	
	NORTHERN DISTRICT OF CALIFORNIA	
13	SAN JOSE DIVISION	
14		
15	CARLOS DADA, SERGIO ARAUZ,	Case No
16	GABRIELA CÁCERES GUTIÉRREZ, JULIA	
10	GAVARRETE, ROMAN GRESSIER, GABRIEL LABRADOR, ANA BEATRIZ	COMPLAINT
17	LAZO ESCOBAR, EFREN LEMUS,	DEMAND FOR JURY TRIAL
10	CARLOS MARTÍNEZ, ÓSCAR MARTÍNEZ,	
18	MARÍA LUZ NÓCHEZ, VÍCTOR PEÑA,	
19	NELSON RAUDA ZABLAH, MAURICIO	
	SANDOVAL SORIANO, and JOSÉ LUIS	
20	SANZ,	
21	Plaintiffs,	
22	i ialiuris,	
22	V.	
23		
	NSO GROUP TECHNOLOGIES LIMITED	
24	and Q CYBER TECHNOLOGIES LIMITED,	
25	Defendants.	
26		
26		
27		
20		
28		
	1	1

6

7

8

9

10

11

12

INTRODUCTION

1. Defendants NSO Group Technologies Limited and Q Cyber Technologies Limited develop spyware—malicious surveillance software—and sell it to rights-abusing governments. With Defendants' technology and assistance, these governments surveil journalists, human rights advocates, and political opponents, often in the service of broader campaigns of political intimidation and persecution. As the U.S. Department of Commerce observed last year when it added NSO Group to its "Entity List," Defendants' spyware has enabled authoritarian governments to "conduct transnational repression"—to reach across borders and stifle dissent. In recent years, the supply of spyware to authoritarian and other rights-abusing governments, by Defendants and other mercenary spyware companies, has become a grave and urgent threat to human rights and press freedom around the world.

13 2. Defendants' signature product, usually sold under the name "Pegasus," 14 is a particularly sophisticated and insidious type of spyware. Defendants and their clients can install Pegasus on a target's smartphone remotely and surreptitiously, 15 without any action by the target. Once installed, Pegasus gives its operators 16 essentially full control of the device. They can covertly extract contact lists, calendar 17 entries, text and instant messages, notes, emails, search histories, and GPS locations. 18 They can turn on the smartphone's microphone to record surrounding sounds. They 19 can activate the smartphone's camera to take photographs. They can also copy 20 authentication keys to gain access to cloud-based accounts. Defendants highlight 21 these and other capabilities in their marketing materials. 22

3. Defendants developed Pegasus, and deploy it, by repeatedly accessing
computer servers owned by U.S. technology companies, including Apple Inc., a
company based in Cupertino, California. As relevant to this case, Defendants
accessed Apple servers to identify and exploit vulnerabilities in Apple software and
services, to enable the delivery of Pegasus to targets' iPhones, and to allow Pegasus
operators to extract data from their targets' iPhones and their targets' cloud-based

Case 3:22-cv-07513-JD Document 1 Filed 11/30/22 Page 3 of 41

accounts. On information and belief, some of the Apple servers that Defendants
 abused to facilitate the delivery and operation of Pegasus in this case are located in
 California. In November 2021, Apple sued Defendants in this district, asserting that,
 through their development and deployment of spyware, they had exploited Apple's
 software and services, damaged its business and goodwill, and injured its users.

4. Plaintiffs in this case include journalists and others who write, produce, 6 and publish El Faro, a digital newspaper based in El Salvador that has become one 7 of the foremost sources of independent news in Central America-in the words of 8 the International Press Institute, a "paragon of investigative journalism . . . with its 9 fearless coverage of violence, corruption, inequality, and human rights violations." 10 El Faro has a broad readership not only in Central America, but also in the United 11 States, and particularly here in California. Plaintiffs include Carlos Dada, El Faro's 12 13 co-founder and director; Roman Gressier, an El Faro reporter who is a U.S. citizen; Nelson Rauda Zablah, a former El Faro reporter who currently lives in the United 14 States; José Luis Sanz, the Washington correspondent for El Faro, who also currently 15 lives in the United States; and eleven other El Faro employees. 16

5. Between June 2020 and November 2021, at least twenty-two people 17 associated with El Faro, including Plaintiffs, were the victims of Pegasus attacks. 18 Their devices were accessed remotely and surreptitiously, their communications and 19 activities monitored, and their personal data accessed and stolen. Many of these 20 attacks occurred when they were communicating with confidential sources, 21 including U.S. Embassy officials, and reporting on abuses by the Salvadoran 22 23 government. The journalists and others who were the victims of these Pegasus attacks learned of them only much later. When they came to light, the attacks were 24 condemned by human rights and press freedom groups around the world. For 25 example, a coalition of civil society groups from Central America and the United 26 States issued a joint statement in January 2022 denouncing the attacks and decrying 27

"[t]he lack of accountability for such egregious conduct by public authorities and private companies."

The Pegasus attacks have profoundly disrupted Plaintiffs' lives and 6. 3 work. The attacks have compromised Plaintiffs' safety as well as the safety of their 4 colleagues, sources, and family members. The attacks have deterred some sources 5 from sharing information with Plaintiffs. Some Plaintiffs have been diverted from 6 pressing investigative projects by the necessity of assessing which data was stolen, 7 8 and of taking precautions against the possibility that the stolen data will be exploited. Plaintiffs have also had to expend substantial resources to protect their devices 9 against possible future attacks, to ensure their personal safety, and to address serious 10 physical and mental health issues resulting from the attacks. The attacks have 11 undermined the security that is a precondition for the independent journalism that El 12 13 Faro strives to provide its readers, as well as the ability of El Faro's readers, including those in the United States, to obtain independent analysis of events in 14 Central America. 15

7. Defendants' development and deployment of Pegasus against Plaintiffs 16 was unlawful. It violated the Computer Fraud and Abuse Act, 18 U.S.C. § 1030, and the California Comprehensive Computer Data Access and Fraud Act, Cal. Penal 18 Code § 502, and it constituted trespass to chattels and intrusion upon seclusion. This is a suit for injunctive and declaratory relief, as well as compensatory and punitive damages.

JURISDICTION AND VENUE

This Court has jurisdiction over Plaintiffs' federal causes of action 8. pursuant to 28 U.S.C. § 1331.

9. This Court has jurisdiction over Plaintiffs' state law causes of action pursuant to 28 U.S.C. § 1367, because these claims arise out of the same nucleus of operative fact as Plaintiffs' federal statutory claims.

17

19

20

21

22

1

2

10. This Court has personal jurisdiction over Defendants because
 Defendants have purposefully availed themselves of California as a forum and have
 purposefully directed their tortious activities at California. A court in this district
 exercised personal jurisdiction over Defendants based on substantially similar facts
 in *WhatsApp Inc. v. NSO Group Technologies Limited*, 472 F. Supp. 3d 649 (N.D.
 Cal. 2020).

11. Alternatively, this Court has personal jurisdiction over Defendants pursuant to Federal Rule of Civil Procedure 4(k)(2), because Plaintiffs' claims arise under federal law; if Defendants are not subject to jurisdiction in California, then they are not subject to jurisdiction in any state's courts of general jurisdiction; and exercising jurisdiction over Defendants is consistent with U.S. law and the U.S. Constitution.

12. Venue is proper in this district pursuant to 28 U.S.C. § 1391(b)(2) or, alternatively, 28 U.S.C. § 1391(b)(3).

DIVISIONAL ASSIGNMENT

13. Pursuant to Civil Local Rule 3-2(e), this case may be assigned to the San Jose division because a substantial part of the events giving rise to Plaintiffs' claims occurred in Santa Clara County, where Apple is located.

PARTIES

Plaintiffs

14. Plaintiff Carlos Dada is the director of El Faro, which he co-founded in 1998. His reporting focuses on corruption and violence, and he has reported from numerous conflict zones, including in Guatemala, Honduras, Iraq, Mexico, and Venezuela. In 2011, he won the Maria Moors Cabot Prize for Latin American Reporting. In 2022, he was honored by the International Press Institute and International Media Support with a World Press Freedom Hero award, which recognizes "journalists who have made significant contributions to promote press freedom, particularly in the face of great personal risk." He also won the 2022 International Center for Journalists' Knight Trailblazer Award for "his hard-hitting
 investigative reporting, lyrical writing and visionary leadership." He lives in San
 Salvador, El Salvador.

15. Plaintiff Sergio Arauz is the deputy editor-in-chief of El Faro, where he has worked since 2001. His reporting focuses on politics and human rights. He lives in San Salvador.

16. Plaintiff Gabriela Cáceres Gutiérrez is a reporter for El Faro, where she has worked since 2018. In 2021, she, along with Plaintiffs Carlos Martínez and Óscar Martínez, undertook one of El Faro's most significant investigations, revealing secret negotiations held in maximum security prisons between the Bukele Administration and incarcerated members of El Salvador's three main gangs: Mara Salvatrucha ("MS-13"), Barrio 18 Revolucionarios, and Barrio 18 Sureños. She lives in San Salvador.

17. Plaintiff Julia Gavarrete is a reporter for El Faro, where she has worked since 2021. She has more than a decade of experience reporting in El Salvador and Central America, and her reporting focuses on vulnerable communities in Central America, on women's rights, and on environmental issues. She currently lives in Berlin, Germany while on a four-month fellowship with Reporters Sans Frontières.

18. Plaintiff Roman Gressier is a reporter for El Faro, where he has worked since November 2019. He writes El Faro's English-language newsletter and has reported extensively on Central American politics, human rights, and press freedom. He is a dual citizen of the United States and France.

19. Plaintiff Gabriel Labrador is a reporter for El Faro, where he has
worked since 2011. He has been a reporter for more than eighteen years, and he has
reported extensively on criminal justice and public corruption, including on a
Salvadoran Supreme Court magistrate's ties to the MS-13 gang, on the political and
policymaking roles of President Bukele's brothers, and on detentions during El
Salvador's recent "state of exception." He lives in San Salvador.

20. Plaintiff Ana Beatriz Lazo Escobar is a marketing manager for El Faro, where she has worked since 2015. She lives in Tamanique, El Salvador.

2 3

4

5

6

7

8

11

17

21

23

24

26

27

1

21. Plaintiff Efren Lemus is a reporter for El Faro, where he has worked since 2011. He has written about gang violence and El Salvador's attempts to curtail it, about the treatment of detainees during El Salvador's state of exception, and about accusations of wrongdoing and corruption within the governing Nuevas Ideas party. He also co-wrote an in-depth profile of the MS-13 gang for The New York Times. He lives in San Salvador.

22. Plaintiff Carlos Martínez is a reporter for El Faro, where he has worked 9 since 2004. He is one of the founding members of Sala Negra, El Faro's investigative 10 journalism team. His reporting focuses on gang violence and official misconduct. He has worked on some of El Faro's most important stories, including an 12 13 investigation into the Bukele Administration's secret negotiations with incarcerated gang members, and co-wrote an in-depth profile of the MS-13 gang for The New 14 York Times. He lives in La Libertad, El Salvador. 15

23. Plaintiff Óscar Martínez is the editor-in-chief of El Faro, where he has 16 worked since January 2007. A founding member of Sala Negra, he reports on issues of gang violence, migration, and official misconduct. He has been awarded the 18 Fernando Benítez National Journalism Award in Mexico, the José Simeón Cañas 19 Central American University in El Salvador Human Rights Prize, and the Maria 20 Moors Cabot Prize. He lives in San Salvador.

24. Plaintiff María Luz Nóchez is a reporter and the Opinion editor for El 22 Faro, where she has worked since 2011. She reports on arts and culture, violence against women and the LGBTQ community, and the rights of Indigenous people. She lives in Santa Tecla, El Salvador. 25

25. Plaintiff Víctor Peña is a photojournalist for El Faro, where he has worked since 2016. He contributes photography and other audiovisual and graphic

material to El Faro, focusing on issues relating to women's rights, inequality, 1 pollution, and migration. He lives in San Salvador.

2 3

4

5

6

7

8

9

10

11

17

20

21

22

23

24

25

26. Plaintiff Nelson Rauda Zablah worked as a reporter and hosted a twiceweekly radio show for El Faro from 2015 to August 2022. He has a decade of experience covering corruption, crime, the justice system, politics, migration, and human rights. His work has also been published in The New York Times, The Washington Post, the Los Angeles Times, ProPublica, the BBC, and El Diario. He previously served as secretary to the Board of Directors of the Asociación de Periodistas de El Salvador (APES), the Salvadoran journalists' association. He currently lives in New York City while pursuing a master's degree at Columbia Journalism School.

27. Plaintiff Mauricio Ernesto 12 Sandoval Soriano is the general administrator of El Faro, where he has worked since 2018. He lives in Antiguo 13 Cuscatlán, El Salvador. 14

28. Plaintiff José Luis Sanz is the Washington correspondent for El Faro, 15 where he has worked since 2001. He was the director of El Faro from 2014 to 16 December 2020. A founding member of Sala Negra, he previously reported on issues 18 of violence, gangs, and organized crime in Central America. He now reports on human rights, migration, and corruption. He currently lives in Washington, D.C. 19

Defendants

29. Defendant NSO Group Technologies Limited is a limited liability company that was incorporated in Israel on January 25, 2010. NSO Group develops highly sophisticated spyware; sells that spyware to government clients around the world, including to governments associated with grave abuses of human rights; trains those clients in the use of the spyware; and assists those clients in its deployment. NSO Group is a subsidiary of Q Cyber Technologies Limited, and, on information and belief, it sometimes operates under that name.

30. Defendant Q Cyber Technologies Limited is a limited liability company. It was originally incorporated in Israel on December 2, 2013 under the name L.E.G.D. Company Limited, but changed its name to Q Cyber Technologies on May 29, 2016. Q Cyber is the parent company of NSO Group and a subsidiary of OSY Technologies SARL.

31. As discussed further below, Defendants have purposefully directed 6 their tortious activities at the State of California. They have also purposefully availed 7 themselves of the United States, and the State of California in particular. For 8 example, for most of the past decade, NSO Group has been principally funded and 9 controlled by California-based companies, including Francisco Partners and 10 Berkeley Research Group. In addition, Q Cyber established a U.S. sales arm called 11 Westbridge Technologies, Inc. to market Defendants' spyware to law enforcement 12 agencies across the United States. Omrie Lavie, one of the three co-founders of NSO 13 Group, co-founded and served as the CEO of Westbridge. Defendants and 14 Westbridge hired U.S.-based firms to help market Defendants' spyware and oversee 15 their public relations in the United States. Defendants and Westbridge endeavored 16 to sell Defendants' technology to U.S. government agencies, including the Central 17 Intelligence Agency, the Drug Enforcement Administration, and the Secret Service, 18 as well as to local law enforcement agencies, including the Los Angeles and San 19 Diego Police Departments. In 2019, Defendants sold a version of Pegasus to the 20 21 Federal Bureau of Investigation and trained FBI agents as they tested and evaluated the spyware. The FBI ultimately paid Defendants roughly \$5 million in fees. 22

32. On information and belief, at all times material to this case, each
Defendant was the agent, partner, alter ego, subsidiary, parent, and/or co-conspirator
of and with the other Defendant, and the acts of each Defendant were within the
scope of that relationship; each Defendant knowingly and intentionally agreed with
the other to carry out the acts alleged in this Complaint; and in carrying out the acts

1

2

3

4

5

alleged in this Complaint, each Defendant acted with the knowledge, permission,
 and consent of the other, and each Defendant aided and abetted the other.

FACTUAL ALLEGATIONS

Pegasus

33. Defendants develop highly sophisticated spyware; sell that spyware to government clients around the world, including to governments associated with grave abuses of human rights; train those clients in the use of the spyware; and assist those clients in its deployment.

34. Defendants' signature product is called Pegasus. Plaintiffs use the term "Pegasus" throughout this Complaint to refer to any of the products that Defendants market that are identical or substantially similar to Pegasus.

35. Pegasus enables its operators to take full control of a target's smartphone remotely and surreptitiously. According to Defendants' marketing materials, Pegasus can be used to remotely and covertly surveil and extract contact details, text messages, instant messages, notes, emails, web-browsing activity, files, and passwords. It can be used to monitor phone calls and VoIP calls, as well as user activity on different applications, including WhatsApp, Facebook, and Skype. It can be used to track and log a device's GPS location. And it can be used to activate the device's microphone to record surrounding sounds, and to activate the device's camera to take photographs.

36. Pegasus can also give its operators access to data stored in the cloud. According to news reports, Pegasus allows its operators to copy the authentication keys that smartphones use to access U.S.-based cloud services such as iCloud, Google Drive, and Facebook Messenger. Pegasus operators can use those keys to gain access to data stored on those cloud servers—including documents and photographs—without the knowledge of the smartphone's user.

27 37. It is practically impossible for individuals to protect themselves against
28 Pegasus attacks. Pegasus can be installed surreptitiously, without the smartphone

user's involvement or awareness, through "zero-click" attacks. It can be installed 2 remotely, eliminating the need for physical proximity to a target's smartphone as 3 well as any reliance on local mobile network operators. It can also circumvent ordinary security measures—such as the use of encryption—because it allows its 4 operators to access an infected device as though they were the device's user. In 5 addition, it is designed to subvert safeguards that would otherwise alert the target to 6 its presence. On iPhones, for example, Pegasus disables crash reporting to Apple, 7 and many of the malicious processes that Pegasus runs on a device following an 8 9 infection have been given names similar to those of legitimate iOS system processes.

38. Independent security researchers at the Citizen Lab, Access Now, and 10 International—all organizations that have conducted 11 Amnesty in-depth investigations of spyware attacks around the world—have concluded that Plaintiffs 12 13 in this case were targeted through zero-click attacks directed at their iPhones. Investigations by these researchers indicate that Defendants carried out these attacks 14 in the stages described below. On information and belief, the Pegasus attacks against 15 Plaintiffs required Defendants to interact extensively with Apple's U.S.-based 16 servers, many of which are in California. 17

39. First, Defendants identified vulnerabilities in Apple software and 18 services that could be used in the process of infecting targeted iPhones with Pegasus. 19 Defendants created Apple ID accounts specifically for the purpose of identifying 20 these vulnerabilities. Ordinarily, Apple ID accounts are used by Apple to 21 authenticate its customers when they use Apple services. In contrast, Defendants 22 23 used their Apple ID accounts to discover vulnerabilities in Apple's software, to probe Apple's servers and services, and to test the software that Defendants 24 developed to infect iPhones with Pegasus. 25

40. Second, Defendants and their clients exploited the vulnerabilities that 26 they identified to infect targeted iPhones with Pegasus. To initiate a zero-click 27 attack, Defendants and their clients used the target's Apple ID or other information 28

11

to confirm that the target was in fact using an iPhone, and then Defendants used their 1 own Apple ID accounts to send malicious data to the device by leveraging the 2 3 communications between Apple's services and the targeted iPhone. The malicious data caused the device to retrieve Pegasus (and other malicious data precipitating the 4 Pegasus infection) through a network of servers operated and/or maintained by 5 Defendants. In this case, Plaintiffs' iPhones were infected using zero-click exploits 6 known as KISMET and FORCEDENTRY. Defendants and their clients appear to 7 8 have executed both of these exploits by using Apple ID accounts to send malicious data through Apple's iMessage service. In the case of at least FORCEDENTRY, the 9 Pegasus file was stored temporarily, in encrypted form, on one of Apple's iCloud 10 servers before delivery to a target's iPhone. 11

41. Third, Pegasus operators used command-and-control servers to exploit 12 13 the Pegasus infection, taking control of the infected iPhone. The operators could use these servers to issue commands to each infected device—for example, to exfiltrate 14 data, to enable location tracking, or to record audio and take photographs using the 15 device's microphone and camera. If a Pegasus operator extracted authentication keys 16 from an infected iPhone, the operator could use those keys to access and extract data 17 from the targeted individual's cloud-based accounts. Pegasus infections were 18 sometimes short-lived (allowing operators to hack their targets' iPhones, exfiltrate 19 data of potential interest, and then attempt to cover their tracks by deleting traces of 20 the infection) and sometimes prolonged or "active" (allowing operators to conduct 21 ongoing surveillance, albeit at greater risk of discovery). Even when Defendants' 22 23 employees were not themselves the Pegasus operators at this stage of the attacks, Defendants remained involved by configuring and maintaining the operators' 24 command-and-control servers, ensuring that infected devices were running the latest 25 version of the Pegasus software, and providing ongoing technical assistance to the 26 operators. Defendants also offered extensive customer support, including on-the-27 28 ground support during the initial deployment and/or continued operation of Pegasus,

technical support by email and phone, and engineer support through remote desktop 1 software and/or a virtual private network. 2

3

4

5

6

7

8

9

10

42. In July 2021, Amnesty International concluded that Defendants were, at that time, able to remotely and covertly compromise all recent iPhone models and versions of Apple's mobile operating system using the process described above or one similar to it.

The Threat Pegasus Poses to Press Freedom and Human Rights

43. Defendants have sold Pegasus to authoritarian and rights-abusing governments around the world, and many of those governments have used the spyware to target journalists, human rights activists, and political opponents.

44. According to the Pegasus Project, a collaboration of more than eighty 11 journalists from seventeen media organizations in ten countries, at least 180 12 journalists from twenty countries have been the victims of Pegasus attacks directed 13 by authoritarian or rights-abusing governments. For example, Saudi authorities used 14 Pegasus to surveil family members and close associates of journalist Jamal 15 Khashoggi—whom Saudi agents brutally murdered in 2018—as well as other Saudi 16 activists, an Amnesty International researcher, and an American New York Times 17 journalist who has reported extensively on the country. Morocco used Pegasus to 18 spy on journalist Omar Radi. Mexican officials used Pegasus to surveil journalists 19 and lawyers investigating corruption and human rights abuses in the country. 20 Hungarian Prime Minister Viktor Orbán also used Pegasus to surveil journalists, 21 lawyers, and social activists. 22

23 45. Prominent human rights activists, diplomats, and political opposition figures, too, have been frequent victims of Pegasus attacks. For example, in 2021 24 alone, Defendants' clients used Pegasus to surveil U.S. diplomats working in 25 Uganda; Carine Kanimba, a dual U.S.–Belgian citizen who was targeted while she 26 was campaigning for the release of her father, Hotel Rwanda hero Paul 27 28 Rusesabagina, from detention; Lama Fakih, a prominent Lebanese activist and

Human Rights Watch director; at least four members of the civic youth movement 1 "Oyan, Qazaqstan" ("Wake Up, Khazakhstan"); and at least thirty pro-democracy 2 3 protesters and activists in Thailand. In 2020, more than sixty pro-Catalonian independence activists were the victims of Pegasus attacks. And in 2019, at least 4 three human rights activists in India were surveilled with Pegasus while they were 5 advocating for the release of other imprisoned activists, and Polish senator Krzysztof 6 Brejza was surveilled with Pegasus while he was running a parliamentary election 7 8 campaign.

9 46. The supply of spyware to authoritarian and rights-abusing regimes, by
10 Defendants and other mercenary spyware manufacturers like them, is now widely
11 understood to present an urgent challenge to press freedom around the world.

47. In November 2021, the U.S. Department of Commerce added NSO 12 Group to its "Entity List" based on evidence that it had "supplied spyware to foreign 13 governments that used" the spyware "to maliciously target government officials, 14 journalists, businesspeople, activists, academics, and embassy workers," as well as 15 to target "dissidents, journalists and activists outside of their sovereign borders to 16 silence dissent." The Commerce Department described the designation of NSO 17 Group as part of a broader effort to "stem the proliferation of digital tools used for 18 repression" and to "improv[e] citizens' digital security, combat[] cyber threats, and 19 mitigat[e] unlawful surveillance." In June 2022, the Biden Administration opposed 20 21 U.S. government contractor L3Harris Technologies' bid to acquire NSO Group, observing that Pegasus had been "misused around the world to enable human rights 22 23 abuses, including to target journalists, human rights activists, or others perceived as dissidents and critics." And in its October 2022 National Security Strategy, the Biden 24 Administration pledged "to counter the exploitation of American's [sic] sensitive 25 data and illegitimate use of technology, including commercial spyware and 26 surveillance technology," and to "stand against digital authoritarianism." 27

48. Congress has also begun to act against the threats posed by spyware. On July 27, 2022, the Chair of the U.S. House Permanent Select Committee on Intelligence called the widespread availability of spyware like Pegasus a "gamechanger for autocratic regimes that are looking for new means to surveil, intimidate, imprison, or even kill dissidents, journalists, and others who they view as a threat." The Committee subsequently approved legislation that would empower the Director of National Intelligence to prohibit the U.S. intelligence community from buying and using foreign spyware, and that would authorize the President to impose sanctions on foreign firms and individuals that sell, purchase, or use spyware.

49. Digital security researchers and human rights advocates have also 10 expressed increasing alarm about the implications of spyware for privacy, free 11 speech, and other human rights. Ronald Deibert, Director of the Citizen Lab at the 12 University of Toronto's Munk School of Global Affairs & Public Policy, has warned 13 that "[a]dvanced spyware is to surveillance [what] nuclear technology is to 14 weapons—it represents a quantum leap forward in sophistication and power." David 15 Kaye, former UN Special Rapporteur on freedom of expression and opinion, has 16 explained that "spyware with the characteristics of Pegasus—the capability to access 17 one's entire device and data connected to it, without discrimination, and without 18 constraint—already violates ... international human rights law," concluding that 19 "[n]o government should have such a tool, and no private company should be able 20 to sell such a tool to governments or others." Dr. Agnès Callamard, Secretary 21 General of Amnesty International and former UN Special Rapporteur on 22 23 extrajudicial, summary or arbitrary executions, has explained that "[w]e are witnessing a global spyware crisis in which activists, journalists and lawyers are 24 targeted with invasive surveillance as a means to silence and intimidate them." 25

26

1

2

3

4

5

6

7

8

9

27

The Pegasus Attacks on El Faro

50. Between June 2020 and November 2021, Defendants and their clients surreptitiously installed Pegasus on the devices of at least thirty-five individuals 28

working in and around El Salvador. These Pegasus attacks targeted independent
 journalists and media organizations, as well as leaders of prominent civil society
 organizations.

51. No organization was more profoundly impacted by the Pegasus attacks 4 than El Faro. A digital newspaper based in El Salvador, El Faro is one of the 5 foremost sources of independent journalism in Central America. It is dedicated to 6 investigative and in-depth reporting on issues including corruption, violence, 7 8 organized crime, migration, inequality, and human rights. Since its founding in 1998, it has become a regional benchmark for independent, transparent, and reliable 9 journalism. Defendants and their clients subjected at least twenty-two of El Faro's 10 thirty-five employees to repeated Pegasus attacks. These attacks went undetected at 11 first, but subsequent analyses identified 226 Pegasus infections between June 2020 12 13 and November 2021 on devices used by El Faro employees. The attacks—which intensified around El Faro's publication of major stories—damaged devices used by 14 employees for both professional and personal purposes and resulted in the 15 exfiltration of sensitive data to Defendants and their clients. 16

52. For example, beginning in June 2020, Defendants and their clients
hacked the device of Plaintiff Carlos Martínez, an El Faro reporter, at least twentyeight times, and his device was actively infected with Pegasus for at least 269 days.
At the time, Mr. Martínez was the lead El Faro reporter investigating the secret
negotiations between the Salvadoran government and the MS-13 gang. His device
was still actively infected with Pegasus when he provided it to security researchers
at the Citizen Lab for forensic analysis in November 2021.

53. In September 2020, when El Faro first published its reporting on the
MS-13 negotiations, Defendants and their clients hacked the devices of nine El Faro
employees, including Plaintiffs Carlos Dada, Sergio Arauz, Gabriel Labrador,
Carlos Martínez, Óscar Martínez, Mauricio Sandoval Soriano, and José Luis Sanz.

The devices of El Faro's employees were infected with Pegasus for approximately
 149 cumulative days that month.

54. At least one El Faro employee's device was actively infected with Pegasus every day in October 2020. The devices of at least four El Faro employees— Carlos Dada, Gabriel Labrador, Carlos Martínez, and Mauricio Sandoval Soriano were actively infected for at least twenty days that month.

55. Defendants and their clients continued to hack El Faro employees' devices throughout the end of 2020 and beginning of 2021, most frequently targeting Carlos Dada, Carlos Martínez, Óscar Martínez, and José Luis Sanz.

56. The Pegasus attacks increased in intensity. In April and May 2021, Defendants and their clients hacked the devices of El Faro employees fifty-two times. They installed Pegasus on the device of Plaintiff Efren Lemus as he reported that El Salvador's former Minister of Security and Justice had been fired in part because he attempted to mount his own presidential candidacy without President Bukele's support. At the same time, Defendants and their clients hacked the device of Gabriel Labrador while he was conducting interviews for a magazine profile of President Bukele, and they hacked the device Plaintiff Nelson Rauda Zablah while he was covering the trial of sixteen military officers accused of leading the December 1981 massacre of more than one thousand civilians in the village of El Mozote.

57. Overall, the Pegasus attacks on El Faro employees extended for eighteen months. A list of the known attacks against individuals in El Salvador, including Plaintiffs and other El Faro employees, can be found in the appendix to the Citizen Lab report summarizing the attacks, incorporated herein and attached hereto as Exhibit A.

5 58. Because Defendants intentionally designed Pegasus to avoid detection, 6 El Faro and its employees were unaware during most of the time they were under 7 attack that their devices had been compromised. El Faro's leadership learned of the 8 first confirmed Pegasus attacks in October 2021, after the Citizen Lab and Access

3

Now detected evidence of Pegasus on the personal device of Plaintiff Julia
 Gavarrete. Upon receiving confirmation that her device had been infected with
 Pegasus, Ms. Gavarrete informed El Faro's leadership of the attack.

59. El Faro's leadership devoted considerable time and resources to 4 identifying the full extent of the attacks and remediating the harms caused by them. 5 The team—including Carlos Dada, Julia Gavarrete, and Óscar Martínez—initially 6 submitted eleven devices used by El Faro employees for further analysis by the 7 Citizen Lab and Access Now. After the Citizen Lab confirmed that all eleven devices 8 had been infected with Pegasus, the team reached out to additional employees at risk of infection and submitted thirty devices for analysis by December 2021. During that time and the months that followed, El Faro employees devoted hundreds of hours to investigating the attacks, identifying other employees who had been targeted, working with security researchers to confirm the nature and duration of the attacks, developing and implementing new digital security policies, and upgrading El Faro's information technology systems. As a result of the attacks, El Faro incurred significant costs that far exceeded \$5,000 within the year after El Faro's leadership learned of the attacks.

60. The Pegasus attacks undermined El Faro's ability to operate, to support its employees, and to serve its readers. The attacks have diverted El Faro leadership and employees from reporting, editing, and publishing. Despite El Faro's best efforts, the attacks have deterred some sources from continuing to communicate with El Faro reporters, deterred some writers from publishing their work with El Faro, and deterred some advertisers from doing business with El Faro.

The Pegasus Attacks on Plaintiffs

61. The Pegasus attacks on devices used by Plaintiffs were part of a coordinated and sustained effort to undermine independent journalism in El Salvador. The attacks all unfolded in a similar manner, beginning with the deployment by Defendants and their clients of zero-click exploits to each targeted

1 device. And the attacks caused similar damage to each device, compromising data stored on and accessible through it. The attacks disabled certain Apple iOS features 2 3 on the devices, infected the devices with Pegasus, enabled Defendants and their clients to issue commands to the devices without Plaintiffs' knowledge or consent, 4 and undermined the value of the devices for private communication and computing. 5 Although Defendants designed Pegasus to leave no evidence of attempts to exfiltrate 6 data from targeted devices, the Citizen Lab's analyses confirmed exfiltration of data 7 8 from at least eleven of the devices targeted in the attacks against El Faro, including those used by Plaintiffs Sergio Arauz, Julia Gavarrete, Roman Gressier, Efren 9 Lemus, Gabriel Labrador, Óscar Martínez, María Luz Nóchez, Mauricio Sandoval 10 Soriano, and José Luis Sanz. On information and belief, Defendants and their clients 11 exfiltrated data from all of Plaintiffs' targeted devices, including data stored on 12 Plaintiffs' cloud-based accounts. 13

62. <u>Carlos Dada</u>: Carlos Dada is the co-founder and director of El Faro.His reporting focuses on corruption and violence.

63. Defendants and their clients hacked Mr. Dada's device, an iPhone 11 owned by El Faro, at least twelve times between July 2020 and June 2021. Active infections persisted on his device for at least 167 days.

64. During the relevant time period, Mr. Dada used his device, which was password-protected, extensively for both personal and professional purposes. His device contained social media and messaging applications, including Facebook, Instagram, Signal, Telegram, Twitter, and WhatsApp. He used the device for communicating with family, friends, sources, and colleagues; for conducting online banking, planning travel, arranging transportation through ride-sharing apps, and consulting maps; and for storing videos and photos. He also used his device to communicate with sources, to store confidential and leaked documents, and to edit work-related documents and drafts in Google Drive. His device was connected to an iCloud account.

65. The Pegasus attacks caused Mr. Dada substantial harms. He has had to 1 significantly alter how he uses his device, including by minimizing work-related 2 3 communications and prioritizing in-person meetings. These necessary changes have greatly diminished the value of Mr. Dada's device. Finally, he incurred significant 4 costs in investigating and remediating the attacks. For example, he spent 5 approximately one hundred hours helping to lead El Faro's initial investigation into 6 the attacks. 7

Sergio Arauz: Sergio Arauz is the deputy editor-in-chief of El Faro 66. 8 and has worked at the organization for twenty-two years. His reporting focuses on politics and human rights. 10

9

11

12

13

15

16

17

18

19

20

21

22

23

67. Defendants and their clients hacked Mr. Arauz's device, an iPhone 11 owned by El Faro, at least fourteen times between August 2020 and October 2021. Active infections persisted on his device for at least twenty-eight days. The Citizen Lab confirmed that Defendants and their clients exfiltrated data from Mr. Arauz's 14 device in the course of these attacks, but it could not identify which data was stolen.

68. During the relevant time period, Mr. Arauz used his device, which was password-protected, extensively for both personal and professional purposes. His device contained social media and messaging applications, including Facebook, Gmail, Instagram, Signal, Telegram, Twitter, and WhatsApp. He used the device to communicate with family and friends; to store personal financial information; and to conduct his work as a journalist, including by communicating with anonymous sources, storing confidential and leaked documents, and editing work-related documents and drafts in Google Drive.

69. The Pegasus attacks caused Mr. Arauz substantial harms. He has had to 24 significantly alter how he uses his device, including by minimizing work-related 25 communications and prioritizing in-person meetings. These necessary changes 26 greatly diminished the value of Mr. Arauz's device, which he later replaced. He has 27 suffered, and continues to suffer, mental anguish as a result of the attacks and the 28

loss of his privacy. Finally, he incurred significant costs in investigating and 1 2 remediating the attacks. For example, as a leader of El Faro and a member of El 3 Faro's Board of Directors, he spent approximately two hundred hours investigating and remediating the attacks against the organization, including by participating in 4 discussions about the impact of the attacks on El Faro and the safety of its 5 employees. He also spent more than two dozen hours investigating the scope of the 6 7 attacks against his own device, including by reviewing his notes, project timelines, 8 and reporting topics over the course of the attacks, by attending meetings regarding the forensic analysis of El Faro employees' devices, and by preparing his own device 9 for analysis. 10

70. <u>Gabriela Cáceres Gutiérrez:</u> Gabriela Cáceres Gutiérrez is a reporter
for El Faro. In 2021, she, along with Plaintiffs Carlos Martínez and Óscar Martínez,
published one of El Faro's most significant investigations, revealing secret
negotiations held in maximum security prisons between the Bukele Administration
and incarcerated members of El Salvador's three main gangs: MS-13, Barrio 18
Revolucionarios, and Barrio 18 Sureños.

17 71. Defendants and their clients hacked Ms. Cáceres Gutiérrez's device, an
iPhone 11 owned by El Faro, at least thirteen times between April and September
2021. These dates coincided with her investigation into the Bukele Administration's
20 negotiations with Salvadoran gangs.

During the relevant time period, Ms. Cáceres Gutiérrez used her device, 72. 21 which was password-protected, extensively for both personal and professional 22 23 purposes. Her device contained social media and messaging applications, including Instagram, Signal, Twitter, and WhatsApp. She used the device to communicate with 24 family and friends; to store personal financial information; and to conduct her work 25 as a journalist, including by communicating with anonymous sources, storing 26 confidential and leaked documents, and editing work-related documents and drafts 27 28 in Google Drive. Her device was connected to an iCloud account.

21

VIC

73. The Pegasus attacks caused Ms. Cáceres Gutiérrez substantial harms. She has had to significantly alter how she uses her device, diminishing its value to her. She has suffered, and continues to suffer, mental anguish as a result of the attacks. Finally, she incurred significant costs in investigating and remediating the attacks. For example, she spent approximately three weeks investigating the attacks and informing family, friends, and sources whose information may have been exposed to Defendants and their clients. She also purchased a new iPhone to protect her sources following the attacks.

74. Julia Gavarrete: Julia Gavarrete joined El Faro's newsroom in 2021. 9 Her reporting focuses on vulnerable communities in Central America, on women's 10 rights, and on environmental issues. 11

75. Defendants and their clients hacked Ms. Gavarrete's personal device, an iPhone 11, as well as an El Faro-owned iPhone that she used for work, at least eighteen times between February and September 2021. The Citizen Lab confirmed that Defendants and their clients exfiltrated data from Ms. Gavarrete's personal device in the course of these attacks, but it could not identify which data was stolen.

76. During the relevant time period, Ms. Gavarrete used her devices, both 17 of which were password-protected, extensively. Her personal device contained 18 social media and messaging applications, including Facebook, Instagram, Signal, Telegram, Twitter, and WhatsApp. She also used her personal device for emailing, conducting personal banking, storing photos of family and friends, and monitoring footage from her home security camera. Her work device contained her work email, draft articles that were stored in Google Drive, photos of leaked documents that were stored on Google Photos, and work-related communications. She also used her work device to draft interview notes from anonymous sources. Both of her devices were connected to iCloud accounts.

77. The Pegasus attacks caused Ms. Gavarrete substantial harms. She has had to significantly alter how she uses both her personal and work devices, including

1

2

3

4

5

6

7

8

12

13

14

15

by minimizing work-related communications and prioritizing in-person meetings. 1 These necessary changes have greatly diminished the value of Ms. Gavarrete's 2 3 devices. She has also suffered, and continues to suffer, mental anguish and physical symptoms as a result of the attacks, including back pain and eye strain. Finally, she 4 incurred significant costs in investigating and remediating the attacks. For example, 5 she spent a month assisting in El Faro's investigation into the attacks, including by 6 working with security researchers at the Citizen Lab and Access Now, by meeting 7 8 with El Faro's leaders and other journalists to ascertain whether their devices had been attacked, and by informing her sources that their information had been exposed 9 to Defendants and their clients. She also purchased an external hard drive so she 10 could create back-ups of her devices for analysis by the Citizen Lab and Access 11 Now. 12

78. 13 **Roman Gressier:** Roman Gressier is a reporter for El Faro. He writes 14 El Faro's English-language newsletter and has reported extensively on Central American politics, human rights, and press freedom.

79. Defendants and their clients hacked Mr. Gressier's device, an iPhone 16 11 owned by El Faro, at least four times between May and June 2021. The Citizen Lab confirmed that Defendants and their clients exfiltrated data from his device in 18 the course of these attacks, but it could not identify which data was stolen. 19

80. During the relevant time period, Mr. Gressier used his device, which 20 was password-protected, extensively for both personal and professional purposes. 21 His device contained social media and messaging applications, including Facebook, 22 23 Facebook Messenger, Gmail, Instagram, ProtonMail, Signal, and WhatsApp. He used the device to communicate with family and friends; to store personal financial 24 information and passwords; and to conduct his work as a journalist, including by 25 communicating with anonymous sources and editing work-related documents and 26 drafts in Google Drive. His device was connected to an iCloud account. 27

28

15

81. The Pegasus attacks caused Mr. Gressier substantial harms. He has had to significantly alter how he uses his device, including by minimizing work-related communications and prioritizing in-person meetings. These necessary changes have greatly diminished the value of Mr. Gressier's device. He has suffered, and continues 4 to suffer, mental anguish as a result of the attacks. Finally, he incurred significant costs in investigating and remediating the attacks. For example, he spent 6 approximately sixty to seventy hours investigating the attacks, notifying contacts that their information had been exposed to Defendants and their clients, and attempting to remediate the attacks by improving his digital security.

1

2

3

5

7

8

9

82. Gabriel Labrador: Gabriel Labrador is a reporter for El Faro. He has 10 reported extensively on criminal justice and public corruption, including on a 11 Salvadoran Supreme Court magistrate's ties to the MS-13 gang, on the political and 12 13 policymaking roles of President Bukele's brothers, and on detentions during El Salvador's recent state of exception. 14

83. Defendants and their clients hacked Mr. Labrador's device, an iPhone 15 11 owned by El Faro, at least twenty times between August 2020 and November 16 2021. His device was infected with Pegasus twice between August and October 17 2020, and infections persisted on his device for most of that period. His device was 18 infected at least eighteen more times between March and November 2021. Overall, 19 his device was actively infected with Pegasus for approximately 101 days. The 20 Citizen Lab confirmed that Defendants and their clients exfiltrated data from Mr. 21 Labrador's device in the course of these attacks, but it could not identify which data 22 23 was stolen.

84. During the relevant time period, Mr. Labrador used his device, which 24 was password-protected, extensively for both personal and professional purposes. 25 His device contained social media and messaging applications, including Facebook, 26 Facebook Messenger, Gmail, Google Hangouts, Google Meet, Instagram, Jitsi Meet, 27 28 Snapchat, Skype, Telegram, Twitter, WhatsApp, and Zoom. He used the device to

communicate with family and friends; to store personal financial information; and 1 2 to conduct his work as a journalist, including by communicating with anonymous 3 sources, storing confidential and leaked documents, and editing work-related documents and drafts in Google Drive. His device was connected to iCloud and 4 Dropbox accounts. 5

85. The Pegasus attacks caused Mr. Labrador substantial harms. He has had 6 to significantly alter how he uses his device, including by minimizing 7 8 communications with his sources. These necessary changes have greatly diminished the value of Mr. Labrador's device. He has suffered, and continues to suffer, mental 9 anguish as a result of the attacks, and he has seen a therapist to help him manage this 10 stress. Finally, he incurred significant costs in investigating and remediating the 11 attacks. For example, he spent approximately twenty-four hours describing what he 12 13 was working on when his device was infected with Pegasus. He spent approximately four hours attending meetings at El Faro about digital security in the wake of the 14 attacks. He also purchased additional security software for his devices. 15

86. Ana Beatriz Lazo Escobar: Ana Beatriz Lazo Escobar is a marketing 16 manager for El Faro, where she has worked for seven years.

87. Defendants and their clients hacked Ms. Lazo Escobar's device, an 18 iPhone 11 owned by El Faro, at least once, in April 2021.

88. During the relevant time period, Ms. Lazo Escobar used her device, which was password-protected, extensively for both personal and professional purposes. Her device contained social media and messaging applications, including Gmail, Instagram, Signal, Telegram, Twitter, and WhatsApp. She also stored personal financial information on the device. Her device was connected to an iCloud account.

89. The Pegasus attack caused Ms. Lazo Escobar substantial harms. She 26 has suffered, and continues to suffer, mental anguish as a result of the attacks, and 27 28 she has seen a therapist to help her manage this stress. Finally, she incurred

significant costs in investigating and remediating the attacks. For example, she spent
 approximately eight hours addressing the attacks, including by submitting a back-up
 of her device for forensic analysis.

90. <u>Efren Lemus</u>: Efren Lemus is a reporter for El Faro. His reporting focuses on gang violence and El Salvador's attempts to curtail it, as well as wrongdoing and corruption within the governing Nuevas Ideas party.

91. Defendants and their clients hacked Mr. Lemus's device, an iPhone 11 owned by El Faro, at least ten times between April and September 2021. The device was first infected with Pegasus on April 23, 2021, the day Mr. Lemus first received it from El Faro. Defendants and their clients hacked his device at least nine more times over the following five months. The Citizen Lab confirmed that Defendants and their clients exfiltrated data from Mr. Lemus's device in the course of these attacks, but it could not identify which data was stolen.

92. During the relevant time period, Mr. Lemus used his device, which was password-protected, extensively for both personal and professional purposes. His device contained social media and messaging applications, including Facebook, Google Meet, Signal, Telegram, Twitter, WhatsApp, and Zoom. He used the device to communicate with family and friends; to store personal financial information; and to conduct his work as a journalist, including by communicating with anonymous sources, storing confidential and leaked documents, and editing work-related documents and drafts in Google Drive. His device was connected to an iCloud account.

93. The Pegasus attacks caused Mr. Lemus substantial harms. He has had to significantly alter how he uses his device, including by minimizing work-related communications and prioritizing in-person meetings. These necessary changes have greatly diminished the value of Mr. Lemus's device. He has suffered, and continues to suffer, great stress and uncertainty as a result of the attacks, leading him to avoid public places and to alter the route he takes when walking his daughters to school. Finally, he incurred significant costs in investigating and remediating the attacks.
For example, he spent approximately one hundred hours addressing the attacks,
including by assisting with El Faro's investigation of the attacks, suspending
interviews on reporting projects out of fear of continued surveillance, and notifying
sources and contacts that their information had been exposed to Defendants and their
clients. He also purchased an external hard drive to submit a back-up of his device
for forensic analysis.

8 94. <u>Carlos Martínez</u>: Carlos Martínez is a reporter for El Faro. He is a
9 founding member of El Faro's investigative journalism team, and his reporting
10 focuses on gang violence and official misconduct.

95. Defendants and their clients hacked Mr. Martínez's device, an iPhone11 owned by El Faro, at least twenty-eight times between June and October 2021.Active infections persisted on his device for at least 269 days.

11

12

13

96. During the relevant time period, Mr. Martínez used his device, which 14 was password-protected, extensively for both personal and professional purposes. 15 His device contained social media and messaging applications, including Facebook, 16 Facebook Messenger, Gmail, Instagram, Signal, Telegram, Twitter, and WhatsApp. 17 He used the device to communicate with family and friends; to store personal 18 financial information; and to conduct his work as a journalist, including by 19 communicating with anonymous sources, storing confidential and leaked 20 documents, and editing work-related documents and drafts in Google Drive. His 21 device was connected to an iCloud account. 22

97. The Pegasus attacks caused Mr. Martínez substantial harms. He has had
to significantly alter how he uses his device, including by minimizing work-related
communications and prioritizing in-person meetings. These necessary changes have
greatly diminished the value of his device. He has suffered, and continues to suffer,
mental anguish as a result of the attacks. Finally, he incurred significant costs in
investigating and remediating the attacks. For example, he spent approximately five

days and informing family, friends, and sources whose information may have been
 exposed to Defendants and their clients. He also purchased a new iPhone following
 the attacks.

98. <u>Óscar Martínez</u>: Óscar Martínez is the editor-in-chief of El Faro. A founding member El Faro's investigative journalism team, he reports on issues of gang violence, migration, and official misconduct.

99. Defendants and their clients hacked Mr. Martínez's device, an iPhone
8 owned by El Faro, at least forty-two times between July 2020 and October 2021.
Active infections persisted on his device for at least forty-nine days. The Citizen Lab
confirmed that Defendants and their clients exfiltrated data from Mr. Martínez's
device in the course of these attacks, but it could not identify which data was stolen.

100. During the relevant time period, Mr. Martínez used his device, which was password-protected, extensively for both personal and professional purposes. His device contained social media and messaging applications, including Gmail, Signal, Telegram, Twitter, and WhatsApp. He used the device to communicate with family and friends; to store personal financial information; and to conduct his work as a journalist, including by communicating with anonymous sources, storing confidential and leaked documents, and editing work-related documents and drafts.

101. The Pegasus attacks caused Mr. Martínez substantial harms. He has had to significantly alter how he uses his device, including by minimizing work-related communications and prioritizing in-person meetings. These necessary changes have greatly diminished the value of Mr. Martínez's device. He has suffered, and continues to suffer, mental anguish as a result of the attacks. Finally, he incurred significant costs in investigating and remediating the attacks. For example, he spent hundreds of hours investigating the attacks, developing El Faro's strategic response to the attacks, establishing new security protocols for El Faro, notifying contacts and sources that their information had been exposed to Defendants and their clients, and improving his own digital security. After the attacks, he started meeting with sources in person more frequently, increasing travel and booking costs. He also purchased at least ten different phones that he used in the months after the attacks were confirmed.

102. <u>María Luz Nóchez</u>: María Luz Nóchez is a reporter and the Opinion editor for El Faro. She reports on arts and culture, violence against women and the LGBTQ community, and the rights of Indigenous people.

103. Defendants and their clients hacked Ms. Nóchez's device, an iPhone 11
owned by El Faro, at least three times between February and June 2021. The Citizen
Lab confirmed that Defendants and their clients exfiltrated data from Ms. Nóchez's
device in the course of the attacks, but it could not identify which data was stolen.

104. During the relevant time period, Ms. Nóchez used her device, which was password-protected, extensively for both personal and professional purposes. Her device contained social media and messaging applications, including Facetime, Facebook Messenger, Gmail, Signal, Telegram, WhatsApp, and Zoom. She used the device to communicate with family and friends; to store personal financial information; and to conduct her work as a journalist, including by editing workrelated documents and drafts in Google Drive. Her device was connected to an iCloud account.

105. The Pegasus attacks caused Ms. Nóchez substantial harms. She has had to significantly alter how she uses her device, including by minimizing work-related communications and prioritizing in-person meetings. These necessary changes have greatly diminished the value of her device. She has also suffered, and continues to suffer, mental anguish and physical symptoms as a result of the attacks, including intense abdominal pain. She has seen a therapist to help her manage the stress resulting from the attacks. Finally, she incurred significant costs in investigating and remediating the attacks. For example, she spent several hours addressing the attacks, including by attending meetings at El Faro regarding the investigation into the attacks, creating and submitting a back-up of her device for forensic analysis, and attending additional meetings about digital security following the attacks.

106. <u>Víctor Peña</u>: Víctor Peña is a photojournalist for El Faro. He contributes photography and audiovisual and graphic material to El Faro, focusing 3 on issues relating to women's rights, inequality, pollution, and migration.

107. Defendants and their clients hacked Mr. Peña's device, an iPhone 11 4 owned by El Faro, at least once, on November 22, 2021. The attack on Mr. Peña's 5 device was the last known Pegasus attack on El Faro. 6

108. During the relevant time period, Mr. Peña used his device, which was 7 password-protected, extensively for personal and professional purposes. His device contained social media and messaging applications, including Facebook, Gmail, Instagram, Signal, Telegram, Twitter, and WhatsApp. He used the device to communicate with family and friends; to store personal financial information; and to conduct his work as a journalist, including by communicating with anonymous sources, storing confidential and leaked documents, and editing work-related documents and drafts in Google Drive. His device was connected to an iCloud account.

The Pegasus attack caused Mr. Peña substantial harms. He has had to 109. significantly alter how he uses his device, including by minimizing work-related communications and prioritizing in-person meetings. These necessary changes have greatly diminished the value of Mr. Peña's device. He has also suffered, and continues to suffer, mental anguish as a result of the attacks. Finally, he incurred significant costs in investigating and remediating the attacks. For example, he spent approximately one month addressing the attacks, including by assisting with El Faro's investigation of the attacks and by notifying sources and contacts that their information had been exposed to Defendants and their clients.

Nelson Rauda Zablah: Nelson Rauda Zablah worked as a reporter and 110. hosted a twice-weekly radio show for El Faro from 2015 to August 2022. He has a decade of experience covering corruption, crime, the justice system, politics, migration, and human rights.

1

111. Defendants and their clients hacked Mr. Rauda Zablah's device, an
 iPhone 11 owned by El Faro, at least six times between April and September 2021.
 Active infections persisted on his device for at least sixty-two days, including three
 days when he visited the U.S. Embassy in San Salvador.

5 112. During the relevant time period, Mr. Rauda Zablah used his device, 6 which was password-protected, extensively for both personal and professional 7 purposes. His device contained social media and messaging applications, including 8 Facebook, Gmail, Google Meet, Instagram, Microsoft Teams, Skype, Telegram, Tik 9 Tok, Twitter, WhatsApp, and Zoom. He used the device to communicate with family 9 and friends, including receiving photos of his nieces and nephews; to store personal 1 financial information; and to conduct his work as a journalist, including by 2 communicating with anonymous sources, storing confidential and leaked 3 documents, and editing work-related documents and drafts in Google Drive. His 4 device was also connected to an iCloud account.

113. The Pegasus attacks caused Mr. Rauda Zablah substantial harms. He has had to significantly alter how he uses his device, including by no longer using it for personal communication or banking. Similarly, he began minimizing workrelated communications and prioritizing in-person meetings. These necessary changes have greatly diminished the value of Mr. Rauda Zablah's device. He has suffered, and continues to suffer, mental anguish as a result of the attacks. Finally, he incurred significant costs in investigating and remediating the attacks. For example, he spent approximately seventy hours assisting El Faro's investigation into the attacks, notifying contacts that their information had been exposed to Defendants and their clients, and taking remedial digital security measures. He spent approximately ten additional hours preparing a back-up of his device for forensic analysis, consulting with information technology experts, deleting and redownloading the applications he had previously used, and conducting additional security analyses to check for any subsequent reinfection. After moving to the United States, he purchased a new, more secure device with a new number and
 cellular plan as a result of the attacks. Fearing that the new device may also be
 targeted, however, he does not use it for tasks that he routinely carried out on his
 previous device before the attacks.

114. <u>Mauricio Ernesto Sandoval Soriano</u>: Mauricio Ernesto Sandoval Soriano is the general administrator of El Faro.

115. Defendants and their clients hacked Mr. Sandoval Soriano's device, an
iPhone 11 owned by El Faro, at least four times between August 2020 and October
2021. The Citizen Lab confirmed that Defendants and their clients exfiltrated data
from Mr. Sandoval Soriano's device in the course of these attacks, but it could not
identify which data was stolen.

116. During the relevant time period, Mr. Sandoval Soriano used his device, which was password-protected, extensively for work and occasionally for personal purposes. His device contained social media and messaging applications, including Gmail, Signal, Telegram, Twitter, and WhatsApp. He used his device to conduct his work, including by editing and signing documents in DocuSign and Google Drive and storing documents relating to El Faro's administrative, financial, and strategic decisions; he also occasionally used his device for personal purposes, including to communicate with his wife and to share photographs.

117. The Pegasus attacks caused Mr. Sandoval Soriano substantial harms. He has had to significantly alter how he uses his device, including by minimizing work-related communications and prioritizing in-person meetings. These necessary changes have greatly diminished the value of Mr. Sandoval Soriano's device. He has also suffered, and continues to suffer, mental anguish as a result of the attacks. Finally, he incurred significant costs in investigating and remediating the attacks. For example, he spent approximately fifty hours addressing the attacks, including assisting with El Faro's investigation of the attacks. Experiencing significant stress

28

5

and uncertainty about the surveillance of his family as a result of the attacks, he also
 purchased security cameras for his home.

118. José Luis Sanz: José Luis Sanz is the Washington correspondent for El Faro. Mr. Sanz reports on human rights, migration, and corruption. A founding member of El Faro's investigative journalism team, he previously reported on issues of violence, gangs, and organized crime in Central America.

119. Defendants and their clients hacked Mr. Sanz's device, an iPhone 8, at least thirteen times between July and December 2020. During these months, Mr. Sanz communicated and attended meetings with U.S. Embassy officials, as well as diplomatic representatives from the European Union, France, Spain, and the United Kingdom. The Citizen Lab confirmed that Defendants and their clients exfiltrated data from Mr. Sanz's device in the course of the attacks, but it could not identify which data was stolen.

120. During the relevant time period, Mr. Sanz used his device, which was password-protected, extensively for both personal and professional purposes. His device contained social media and messaging applications, including Facebook, Gmail, Instagram, Signal, Skype, Telegram, Twitter, and WhatsApp. He used the device to communicate with family and friends; to store photographs; to store personal financial information; and to conduct his work as a journalist, including by maintaining the contact information of anonymous sources and editing work-related documents and drafts in Google Drive. His device was also connected to an iCloud account.

121. The Pegasus attacks caused Mr. Sanz substantial harms. He has had to significantly alter how he uses his device, including by minimizing work-related communications and prioritizing in-person meetings. These necessary changes have greatly diminished the value of Mr. Sanz's device. He has also suffered, and continues to suffer, mental anguish as a result of the attacks. Finally, he incurred significant costs in investigating and remediating the attacks. For example, he spent approximately eighty hours assisting El Faro's investigation into the attacks and
 taking remedial digital security measures. He spent approximately four to five
 additional hours notifying contacts and sources that their information had been
 exposed to Defendants and their clients.

122. Overall, the Pegasus attacks caused Plaintiffs serious economic, reputational, professional, psychological, and personal harms and caused Plaintiffs and El Faro significant losses aggregating over \$5,000 within the year after they learned of the attacks. The attacks have also undermined Plaintiffs' ability to serve as sources of independent journalism in El Salvador and Central America.

CAUSES OF ACTION

Count I

Violations of the Computer Fraud and Abuse Act 18 U.S.C. § 1030

123. As explained above, between June 2020 and November 2021, Defendants repeatedly accessed Plaintiffs' devices, including their cloud-based accounts, without authorization. Each Plaintiff either owned a device targeted in the Pegasus attacks or had a possessory interest in and exclusive right to use a targeted device in connection with their employment with El Faro. These devices also contained Plaintiffs' private information, including private communications, photographs, and writings. The devices are "protected computers" within the meaning of 18 U.S.C. § 1030(e)(2)(B) because they are "used in or affecting interstate or foreign commerce or communication."

124. Plaintiffs suffered both damage and loss as a result of the Pegasus attacks on their devices.

125. The total losses stemming from the Pegasus attacks—including costs incurred by Plaintiffs as well as those incurred by El Faro—exceeded \$5,000 in aggregate during a one-year period.

The Pegasus attacks damaged the devices used and/or owned by 1 126. 2 Plaintiffs. For example, the attacks disabled certain Apple iOS features on the 3 devices, infected the devices with spyware, and enabled Defendants and their clients to issue commands to the devices without Plaintiffs' knowledge or consent—all of 4 which also made the devices less valuable to Plaintiffs as tools for private 5 communication and computing. 6

18 U.S.C. § 1030(a)(2)(C)

127. Defendants violated 18 U.S.C. § 1030(a)(2)(C) because they 8 intentionally accessed and/or caused to be accessed Plaintiffs' devices without authorization and obtained information from those devices. 10

128. Defendants accessed and/or caused to be accessed Plaintiffs' devices without authorization through attacks that enabled the surreptitious installation of 12 Pegasus on Plaintiffs' devices. 13

129. Defendants infected Plaintiffs' devices with Pegasus to enable real-time surveillance of those devices and to exfiltrate data from those devices to Defendants and their clients. Once installed, Pegasus provided Defendants and their clients with essentially unlimited access to Plaintiffs' devices, allowing them to remotely surveil and exfiltrate data contained on those devices and in the cloud-based accounts connected to those devices.

130. Although Pegasus attacks are designed to leave no trace, analysis by 20 the Citizen Lab confirmed that Defendants and their clients obtained data from at 21 least nine devices used and/or owned by Plaintiffs. On information and belief, 22 23 Defendants and their clients obtained data from all of Plaintiffs' targeted devices, including by accessing data stored on Plaintiffs' cloud-based accounts. 24

18 U.S.C. § 1030(a)(5)

131. Defendants violated 18 U.S.C. § 1030(a)(5)(A) because they knowingly caused the transmission of a program, information, code, or command to

27 28

25

26

7

9

11

14

15

16

17

18

Plaintiffs' devices and, as a result, intentionally damaged those devices without
 authorization.

132. Defendants violated 18 U.S.C. § 1030(a)(5)(B) because they intentionally accessed Plaintiffs' devices without authorization and, as a result, recklessly caused damage.

133. Defendants violated 18 U.S.C. § 1030(a)(5)(C) because they intentionally accessed Plaintiffs' devices without authorization and, as a result, caused damage and loss.

18 U.S.C. § 1030(b)

134. Defendants violated 18 U.S.C. § 1030(b) by conspiring and attempting to commit the violations alleged in the preceding paragraphs.

135. In the alternative, Defendants knowingly and intentionally aided and abetted their clients in the violations of 18 U.S.C. § 1030 alleged in the preceding paragraphs.

Count II

Violations of the California Comprehensive Computer Data Access and Fraud Act California Penal Code § 502

136. Each Plaintiff either owned a device targeted in the Pegasus attacks or had a possessory interest in and exclusive right to use a targeted device in connection with their employment with El Faro. These devices also contained Plaintiffs' private information, including private communications, photographs, and writings.

137. Defendants violated California Penal Code § 502(c)(1) by knowingly and without permission accessing Plaintiffs' devices and altering, damaging, or using those devices in order to wrongfully control the devices and obtain data from them. Analysis by the Citizen Lab confirmed that Defendants and their clients obtained data from at least nine of Plaintiffs' devices. On information and belief, Defendants and their clients obtained data from all of Plaintiffs' targeted devices, including by accessing information stored on Plaintiffs' cloud-based accounts. 138. Defendants violated California Penal Code § 502(c)(2) by knowingly accessing and without permission taking, copying, and making use of data from Plaintiffs' devices, including data stored on their cloud-based accounts.

139. Defendants violated California Penal Code § 502(c)(3) by knowingly accessing and without permission using, or causing to be used, Plaintiffs' computer services. The installation of Pegasus on Plaintiffs' devices required computing and data processing by the targeted devices without Plaintiffs' knowledge or consent. The installation and maintenance of Pegasus on Plaintiffs' devices relied on and exploited the devices' storage functions without Plaintiffs' knowledge or consent. The exfiltration of data from Plaintiffs' devices resulted from Pegasus issuing commands to the devices and controlling their computing functions without Plaintiffs' knowledge or consent.

140. Defendants violated California Penal Code § 502(c)(4) by knowingly accessing and without permission adding and altering data, software, and computer programs on Plaintiffs' devices. Defendants altered the functioning of Plaintiffs' devices by infecting them with malicious data, software, and computer programs without Plaintiffs' permission.

141. Defendants violated California Penal Code § 502(c)(6) by knowingly providing a means of accessing Plaintiffs' devices and cloud-based accounts in violation of the California Computer Data Access and Fraud Act.

142. Defendants violated California Penal Code § 502(c)(7) by knowingly and without permission accessing and causing to be accessed Plaintiffs' devices and cloud-based accounts.

143. Defendants violated California Penal Code § 502(c)(8) by knowingly introducing a computer contaminant onto Plaintiffs' devices.

144. In carrying out the attacks on Plaintiffs' devices, Defendants acted oppressively, fraudulently, and maliciously.

Count III Trespass to Chattels

145. Each Plaintiff either owned a device targeted in the Pegasus attacks or had a possessory interest in and exclusive right to use a targeted device in connection with their employment with El Faro. These devices also contained Plaintiffs' private information, including private communications, photographs, and writings.

146. Through the Pegasus attacks, Defendants intentionally and without authorization interfered with Plaintiffs' possessory interest in the targeted devices and in the information stored on and accessible through those devices.

147. Through the Pegasus attacks, Defendants intentionally and without authorization damaged the devices used and/or owned by Plaintiffs. For example, the attacks disabled certain Apple iOS features on the devices, infected the devices with spyware, and enabled Defendants and their clients to issue commands to the devices without Plaintiffs' consent—all of which also made the devices less valuable to Plaintiffs as tools for private communication and computing.

148. Defendants caused Plaintiffs to suffer substantial harms, including the degradation in value of the devices themselves, costs incurred in investigating and remediating the attacks, loss of professional goodwill, medical expenses, and emotional distress.

Count IV Intrusion upon Seclusion

149. Each Plaintiff either owned a device targeted in the Pegasus attacks or had a possessory interest in and exclusive right to use a targeted device in connection with their employment with El Faro. Plaintiffs had a reasonable expectation of privacy in these devices. Each device was password-protected and contained private information, including communications, photographs, and writings.

150. Defendants intentionally intruded into Plaintiffs' private affairs by installing or causing to be installed malicious code on their devices. The installation

1 of Pegasus on Plaintiffs' devices gave Defendants and their clients essentially full control of the devices, including the ability to covertly surveil and extract contact 2 3 details, text messages, instant messages, notes, emails, web-browsing activity, files, and passwords; to monitor phone calls and VoIP calls, as well as user activity on 4 different applications, including WhatsApp, Facebook, and Skype; to track and log 5 a device's GPS location; to activate the device's microphone to record surrounding 6 7 sounds; and to activate the device's camera to take photographs. Although Pegasus 8 attacks are designed to leave no trace, the Citizen Lab's analyses confirmed that Defendants and their clients exfiltrated data from at least nine devices used and/or 9 owned by Plaintiffs. On information and belief, Defendants and their clients 10 exfiltrated data from all of Plaintiffs' targeted devices, including by accessing data 11 stored on their cloud-based accounts. 12

151. Defendants' actions would be highly offensive to the reasonable 13 14 person.

152. The Pegasus attacks executed by Defendants and their clients caused 15 Plaintiffs to suffer substantial harms, including the degradation in value of the 16 devices themselves, costs incurred in investigating and remediating the attacks, medical expenses, and emotional distress. 18

19 20

21

22

23

24

25

26

17

REQUEST FOR RELIEF

Plaintiffs respectfully request that this Court:

- A. Declare that Defendants have:
 - Violated the Computer Fraud and Abuse Act, 18 U.S.C. § 1030; i.
 - ii. Violated the California Comprehensive Computer Data Access and Fraud Act, Cal. Penal Code § 502;
- iii. Trespassed onto Plaintiffs' property in violation of California law; and
- iv. Intruded upon Plaintiffs' seclusion in violation of California law. 27
- 28

- B. Enter a permanent injunction restraining Defendants from accessing, attempting to access, or assisting others in accessing or attempting to access, Plaintiffs' devices.
- C. Enter a permanent injunction requiring Defendants to catalogue all information obtained as a result of the Pegasus attacks on Plaintiffs' devices; to return and then delete all such information in Defendants' possession; to disclose the identities of all persons and/or entities with whom Defendants shared such information, when that information was shared, and under what conditions; and to disclose the identities of all of Defendants' clients who were involved in the attacks on Plaintiffs' devices, including the specific individuals with whom Defendants involvement.
 - D. Award Plaintiffs compensatory damages, as permitted by law and in such amounts to be proven at trial.
 - E. Award Plaintiffs punitive damages, as permitted by law and in such amounts to be proven at trial.
 - F. Award Plaintiffs their reasonable costs and attorneys' fees incurred in this action.
 - G. Grant such other and further relief as the Court may deem just and proper.

Case 3:22-cv-07513-JD Document 1 Filed 11/30/22 Page 41 of 41

1	DATED: November 30, 2022	Respectfully submitted,
2		/s/ Paul Hoffman
2		Paul Hoffman #71244
3		John Washington #315991
4		Schonbrun, Seplow, Harris,
5		Hoffman & Zeldes LLP
5		200 Pier Avenue, Suite 226
6		Hermosa Beach, CA 90254
7		T: (424) 297-0114
0		F: (310) 399-7040
8		hoffpaul@aol.com
9		
10		/s/ Carrie DeCell
10		Carrie DeCell**
11		Jameel Jaffer** Alex Abdo**
12		Stephanie Krent**
12		Evan Welber Falcón**
13		Knight First Amendment
14		Institute at Columbia
15		University
		475 Riverside Drive, Suite 302
16		New York, NY 10115
17		T: (646) 745-8500
10		F: (646) 661-3361
18		carrie.decell@knightcolumbia.org
19		Counsel for Carlos Dada, Sergio Arauz,
20		Gabriela Cáceres Gutiérrez, Julia
21		Gavarrete, Roman Gressier, Gabriel
\mathbf{r}		Labrador, Ana Beatriz Lazo Escobar,
22		Efren Lemus, Carlos Martínez, Óscar
23		Martínez, María Luz Nóchez, Víctor
24		Peña, Nelson Rauda Zablah, Mauricio
		Sandoval Soriano, and José Luis Sanz
25		**Application for Admission Pro Hac
26		Vice To Be Filed
27		
28		
		41

Case 3:22-cv-07513-JD Document 1-1 Filed 11/30/22 Page 1 of 15

EXHIBIT A

Project Torogoz

Extensive Hacking of Media & Civil Society in El Salvador with Pegasus Spyware

By John Scott-Railton, Bill Marczak, Paolo Nigro Herrero, Bahr Abdul Razzak, Noura Al-Jizawi, Salvatore Solimano, and Ron Deibert

JANUARY 12, 2022 RESEARCH REPORT #148







Copyright

© Citizen Lab



Licensed under the Creative Commons BY-SA 4.0 (Attribution-ShareAlike licence). Electronic version first published in 2022 by the Citizen Lab. This work can be accessed through https://citizenlab.ca/2022/01/project-toro-goz-extensive-hacking-media-civil-society-el-salvador-pegasus-spyware/.

Document Version: 1.0

The Creative Commons Attribution-ShareAlike 4.0 license under which this report is licensed lets you freely copy, distribute, remix, transform, and build on it, as long as you:

- give appropriate credit;
- indicate whether you made changes; and
- use and link to the same CC BY-SA 4.0 licence.

However, any rights in excerpts reproduced in this report remain with their respective authors; and any rights in brand and product names and associated logos remain with their respective owners. Uses of these that are protected by copyright or trademark rights require the rightsholder's prior written agreement.

Suggested Citation

John Scott-Railton, Bill Marczak, Paolo Nigro Herrero, Bahr Abdul Razzak, Noura Al-Jizawi, Salvatore Solimano, and Ron Deibert. "Project Torogoz: Extensive Hacking of Media & Civil Society in El Salvador with Pegasus Spyware," Citizen Lab Research Report No. 148, University of Toronto, January 2022.

Acknowledgements

We thank and acknowledge the many individuals that allowed us to analyze their devices as part of this investigation.

Special thanks to Mohammed Al-Maskati from Frontline Defenders for invaluable assistance.

Special thanks to the staff and incident handlers at the Access Now helpline for their invaluable support to this process and assistance to victims.

Special thanks to all of the organizations participating in this investigative collaboration including SocialTIC and Fundación Acceso.

Thanks to Siena Anstis, Celine Bauwens, Miles Kenyon, Adam Senft, and Mari Zhou for review, copy editing, and publication support.

Special thanks to TNG for invaluable assistance on this project.

About the Citizen Lab, Munk School of Global Affairs & Public Policy, University of Toronto

The Citizen Lab is an interdisciplinary laboratory based at the Munk School of Global Affairs & Public Policy, University of Toronto, focusing on research, development, and high-level strategic policy and legal engagement at the intersection of information and communication technologies, human rights, and global security.

We use a "mixed methods" approach to research that combines methods from political science, law, computer science, and area studies. Our research includes investigating digital espionage against civil society, documenting Internet filtering and other technologies and practices that impact freedom of expression online, analyzing privacy, security, and information controls of popular applications, and examining transparency and accountability mechanisms relevant to the relationship between corporations and state agencies regarding personal data and other surveillance activities.

Contents

Key Findings	1
1. Introduction	1
Repression and Impunity in El Salvador The Bukele Administration The State of Police and Private Security Firms	2 2 3
Salvadoran Media under Threat The TOROGOZ Pegasus Operator and El Salvador	4 4
2. Findings: Salvadoran Pegasus Targeting	5
Confirmed Targets Zero-Click Exploits One-Click Links	5 7 7
3. Attribution	8
4. Conclusion: Mercenary Spyware Continues to Harm Media, Civil Society	9
Pegasus and the Media	10
Appendix A: Hacking Timeline	

rule and many of NSO Group's government clients are illiberal regimes. The voluminous hacking of Salvadoran media organizations and journalists is shocking but should come as no surprise.

Only a little over a year ago, we <u>discovered</u> government operatives used NSO Group's Pegasus spyware to hack 36 personal phones belonging to journalists, producers, anchors, and executives at the news organization *Al Jazeera*. The Citizen Lab and Amnesty International have also documented numerous other cases where journalists' phones were hacked with Pegasus, including *the New York Times*' <u>Ben Hubbard</u>, Sevinc <u>Vaqifqizi</u>, a freelance journalist for independent media outlet *Meydan TV*, Siddharth Varadarajan and MK Venu, co-founders of India's the *Wire*, Dániel <u>Németh</u>, a photojournalist working out of Budapest, and numerous others. According to <u>investigations</u> undertaken as part of the Pegasus Project, at least 180 journalists were selected as targets for potential Pegasus hacking.

Further highlighting the consistent threat posed by Pegasus to journalists, Daniel Lizárraga—a journalist whose phone we confirmed was hacked with Pegasus in this case—<u>was also targeted</u> in 2016 by the Mexican Pegasus operator while in a previous role at a Mexican NGO. Given the lack of due diligence and proper regulations, it should come as no surprise that individual victims of Pegasus hacking may have been targeted by multiple NSO Group clients over time, as Lizárraga's case illustrates.

The lesson from this case is obvious: an unregulated spyware marketplace is a grave threat to media worldwide, and to civil society.

Appendix A: Hacking Timeline

The following table of dates of successful hacking *excludes* dates of attempted but unsuccessful hacking. This table is *not* intended to be a comprehensive inventory of every date that the spyware was active on a phone. Each entry represents a separate instance where NSO's exploits were fired at a phone resulting in successful infection.

Several factors can influence the number of times infections happen. For example, if a target is selected for persistent surveillance, the exploit may be fired more often if the user frequently reboots their phone, as modern versions of the Pegasus spyware are believed to feature persistence via re-exploitation. If the target does not reboot their phone, the spyware may run for some time without the exploit being fired again.

Individual	Organization	Dates of Successful Hacking
Noah Bullock	ah Bullock Cristosal	1. On or around 2021-09-04
		2. On or around 2021-09-28
		3. On or around 2021-11-12

Case 3:22-cv-07513-JD Document 1-1 Filed 11/30/22 Page 7 of 15

CITIZEN LAB RESEARCH REPORT NO. 148

Individual	Organization	Dates of Successful Hacking
(Individual #1)	Diario El Mundo	1. On or around 2021-06-03
		2. On or around 2021-06-30
Ricardo Avelar	El Diario de Hoy	1. On or around 2020-08-31
		2. On or around 2020-09-22
		3. On or around 2021-02-21
		4. On or around 2021-03-16
		5. On or around 2021-03-26
		6. On or around 2021-04-27
		7. On or around 2021-06-15
		8. On or around 2021-07-14
		9. On or around 2021-09-04
		10. On or around 2021-09-12
Ana Beatriz Lazo	El Faro	1. On or around 2021-10-04
Carlos Dada	El Faro	1. Sometime 2020-07-08 – 2020-07-17
		2. Sometime 2020-07-17 – 2020-07-24
		3. Sometime 2020-07-24 – 2020-07-30
		4. On or around 2020-07-31
		5. Sometime 2020-08-01 – 2020-08-14
		6. Sometime 2020-09-08 – 2020-10-22
		7. Sometime 2021-01-06 – 2021-01-12
		8. Sometime 2021-01-12 – 2021-01-20
		9. Sometime 2021-02-13 – 2021-02-23
		10. Sometime 2021-03-31 – 2021-04-17
		11. Sometime 2021-04-18 – 2021-05-12
		12. Sometime 2021-05-26 – 2021-06-09

_____ 11

- PROJECT TOROGOZ

Individual	Organization	Dates of Successful Hacking		
Carlos Ernesto	El Faro	1. Sometime 2020-06-29 – 2020-07-22		
Martínez		2. Sometime 2020-07-25 – 2020-08-06		
D'aubuisson		3. Sometime 2020-09-07 – 2020-09-10		
		4. Sometime 2020-09-10 – 2020-09-18		
		5. Sometime 2020-09-18 – 2020-10-10		
		6. Sometime 2020-10-10 – 2020-11-05		
		7. Sometime 2020-11-05 – 2020-11-10		
		6. Sometime 2020-10-10 - 2020-11-05 7. Sometime 2020-11-05 - 2020-11-10 8. Sometime 2020-11-23 - 2020-12-02 9. Sometime 2020-12-02 - 2020-12-21 10. Sometime 2020-12-26 - 2021-01-21 11. Sometime 2021-02-11 - 2021-02-16 12. Sometime 2021-02-17 - 2021-02-19 13. Sometime 2021-02-3 - 2021-03-08 14. Sometime 2021-03-08 - 2021-03-11 15. Sometime 2021-03-08 - 2021-03-23 16. Sometime 2021-04-03 - 2021-04-12 17. Sometime 2021-04-12 - 2021-04-27 18. Sometime 2021-04-28 - 2021-05-06 19. Sometime 2021-05-06 - 2021-05-27 20. Sometime 2021-05-06 - 2021-05-27 21. Sometime 2021-06-16 - 2021-06-22 22. Sometime 2021-06-27 - 2021-06-24 23. Sometime 2021-06-27 - 2021-07-02		
		9. Sometime 2020-12-02 – 2020-12-21		
		10. Sometime 2020-12-26 – 2021-01-21		
		1. Sometime 2020-06-29 - 2020-07-22 2. Sometime 2020-09-07 - 2020-09-10 3. Sometime 2020-09-10 - 2020-09-18 5. Sometime 2020-09-18 - 2020-10-10 6. Sometime 2020-10-10 - 2020-11-05 7. Sometime 2020-11-05 - 2020-11-05 7. Sometime 2020-11-23 - 2020-12-02 9. Sometime 2020-12-02 - 2020-12-21 10. Sometime 2020-12-26 - 2021-01-21 11. Sometime 2021-02-17 - 2021-02-16 12. Sometime 2021-02-17 - 2021-02-19 13. Sometime 2021-02-33 - 2021-03-08 14. Sometime 2021-03-08 - 2021-03-11 15. Sometime 2021-03-19 - 2021-03-23 16. Sometime 2021-04-19 - 2021-04-12 17. Sometime 2021-04-30 - 2021-04-12 17. Sometime 2021-04-12 - 2021-04-27 18. Sometime 2021-04-28 - 2021-05-06 19. Sometime 2021-04-27 - 2021-04-27 20. Sometime 2021-05-29 - 2021-06-02 21. Sometime 2021-06-16 - 2021-06-22 22. Sometime 2021-06-22 - 2021-06-24 23. Sometime 2021-06-27 - 2021-07-02 24. On or around 2021-07-08 25. On or around 2021-07-08 25. On or around 2021-07-08 25. On or around 2021-04-12 20. On or around 2021-04-12 20. On or around 2021-04-12 20. On or around 2		
		7. Sometime 2020-11-05 - 2020-11-10 8. Sometime 2020-11-23 - 2020-12-02 9. Sometime 2020-12-02 - 2020-12-21 10. Sometime 2020-12-26 - 2021-01-21 11. Sometime 2021-02-11 - 2021-02-16 12. Sometime 2021-02-17 - 2021-02-19 13. Sometime 2021-02-23 - 2021-03-08 14. Sometime 2021-03-08 - 2021-03-11 15. Sometime 2021-03-19 - 2021-03-23 16. Sometime 2021-04-19 - 2021-04-12 17. Sometime 2021-04-12 - 2021-04-12 17. Sometime 2021-04-28 - 2021-04-27 18. Sometime 2021-04-28 - 2021-05-06 19. Sometime 2021-05-29 - 2021-06-02 21. Sometime 2021-06-16 - 2021-05-27 20. Sometime 2021-06-22 - 2021-06-24 23. Sometime 2021-06-27 - 2021-07-02 24. On or around 2021-07-08 25. On or around 2021-08-31 26. On or around 2021-09-15 27. On or around 2021-09-15		
		13. Sometime 2021-02-23 – 2021-03-08		
		14. Sometime 2021-03-08 – 2021-03-11		
		15. Sometime 2021-03-19 – 2021-03-23		
		16. Sometime 2021-04-03 – 2021-04-12		
		17. Sometime 2021-04-12 – 2021-04-27		
		18. Sometime 2021-04-28 – 2021-05-06		
		19. Sometime 2021-05-06 – 2021-05-27		
		20. Sometime 2021-05-29 – 2021-06-02		
		21. Sometime 2021-06-16 – 2021-06-22		
		22. Sometime 2021-06-22 – 2021-06-24		
		3. Sometime 2020-09-07 - 2020-09-10 4. Sometime 2020-09-18 - 2020-10-10 6. Sometime 2020-10-10 - 2020-11-05 7. Sometime 2020-11-05 - 2020-11-00 8. Sometime 2020-11-23 - 2020-12-02 9. Sometime 2020-12-26 - 2021-01-21 10. Sometime 2021-02-17 - 2021-02-16 11. Sometime 2021-02-17 - 2021-02-19 13. Sometime 2021-02-23 - 2021-03-08 14. Sometime 2021-03-08 - 2021-03-11 15. Sometime 2021-04-03 - 2021-04-12 17. Sometime 2021-04-19 - 2021-04-27 18. Sometime 2021-04-28 - 2021-04-27 18. Sometime 2021-04-28 - 2021-05-06 19. Sometime 2021-04-27 - 2021-06-02 21. Sometime 2021-04-27 - 2021-06-02 22. Sometime 2021-06-29 - 2021-06-22 22. Sometime 2021-06-27 - 2021-06-24 23. Sometime 2021-06-27 - 2021-07-02 24. On or around 2021-07-08 25. On or around 2021-09-15 27. On or around 2021-09-15 27. On or around 2021-04-12 20. On or around 2021-04-27 4. On or around 2021-04-27 4. On or around 2021-04-27		
		24. On or around 2021-07-08		
		25. On or around 2021-08-31		
		26. On or around 2021-09-15		
		27. On or around 2021-10-07		
		28. On or around 2021-10-21		
Daniel Lizárraga	El Faro	1. On or around 2021-04-12		
		2. On or around 2021-04-15		
		3. On or around 2021-04-27		
		4. On or around 2021-05-20		
		5. On or around 2021-06-04		
		6. On or around 2021-06-15		
		7. On or around 2021-06-23		
		8. On or around 2021-07-08		
Daniel Reyes	El Faro	1. Sometime 2020-10-01 – 2020-10-10		
		2. On or around 2021-11-04		

Case 3:22-cv-07513-JD Document 1-1 Filed 11/30/22 Page 9 of 15

CITIZEN LAB RESEARCH REPORT NO. 148

Individual	Organization	Dates of Successful Hacking
Efren Lemus	El Faro	1. On or around 2021-04-23
		2. On or around 2021-04-26
		3. On or around 2021-04-30
		4. On or around 2021-05-20
		5. On or around 2021-06-01
		6. On or around 2021-06-08
		7. On or around 2021-06-18
		8. On or around 2021-07-10
		9. On or around 2021-09-17
		10. On or around 2021-09-25
Gabriel Labrador	El Faro	1. Sometime 2020-08-06 – 2020-09-07
		2. Sometime 2020-09-11 – 2020-10-30
		3. On or around 2021-03-25
		4. On or around 2021-04-01
		5. On or around 2021-04-06
		6. On or around 2021-04-09
		7. On or around 2021-04-12
		8. On or around 2021-04-14
		9. On or around 2021-04-16
		10. On or around 2021-05-05
		11. On or around 2021-05-07
		12. On or around 2021-05-13
		13. On or around 2021-05-17
		14. On or around 2021-06-01
		15. On or around 2021-08-31
		16. On or around 2021-09-12
		17. On or around 2021-10-06
		18. On or around 2021-10-23
		19. On or around 2021-11-04
		20. On or around 2021-11-11
Gabriela Cáceres	El Faro	1. On or around 2021-04-17
		2. On or around 2021-05-11
		3. On or around 2021-05-15
		4. On or around 2021-05-21
		5. On or around 2021-06-06
		6. On or around 2021-06-15
		7. On or around 2021-06-17
		8. On or around 2021-06-21
		9. On or around 2021-07-14
	10. On or around 2021-08-31	
	11. On or around 2021-09-08	
		12. On or around 2021-09-17
		13. On or around 2021-09-24

_____ 13

- PROJECT TOROGOZ

Individual	Organization	Dates of Successful Hacking	
José Luis Sanz	El Faro	1. Sometime 2020-07-04 – 2020-07-09	
		2. Sometime 2020-07-09 – 2020-07-14	
		3. On or around 2020-07-16	
		4. On or around 2020-09-10	
		5. On or around 2020-09-23	
		6. On or around 2020-11-14	
		7. On or around 2020-11-21	
		8. On or around 2020-11-28	
		9. On or around 2020-12-03	
		1. Sometime 2020-07-04 – 2020-07-09 2. Sometime 2020-07-09 – 2020-07-14 3. On or around 2020-07-16 4. On or around 2020-09-10 5. On or around 2020-09-23 6. On or around 2020-11-14 7. On or around 2020-11-21 8. On or around 2020-11-28	
		11. On or around 2020-12-10	
		12. On or around 2020-12-16	
		13. On or around 2020-12-19	
Julia Gavarrete	El Faro	1. On or around 2021-03-16	
(Phone #1)		2. On or around 2021-04-08	
		3. On or around 2021-04-13	
		4. On or around 2021-04-14	
		5. On or around 2021-04-16	
		6. On or around 2021-04-18	
		7. On or around 2021-04-20	
		8. On or around 2021-04-23	
		9. On or around 2021-04-26	
		11. On or around 2021-05-20	
		12. Sometime 2021-05-30 – 2021-06-06	
		13. On or around 2021-06-10	
		14. On or around 2021-06-28	
		15. On or around 2021-09-08	
Julia Gavarrete	El Faro	1. On or around 2021-02-23	
(Phone #2)		2. On or around 2021-09-09	
		3. On or around 2021-09-27	
María Luz El Farc Nóchez	El Faro	1. On or around 2021-02-17	
		2. On or around 2021-05-21	
		3. On or around 2021-06-09	
Mauricio Ernesto El Faro Sandoval	El Faro	1. Sometime 2020-08-19 – 2020-10-20	
		2. On or around 2021-07-02	
Soriano		3. On or around 2021-07-06	
		4. On or around 2021-10-01	
Nelson Rauda	El Faro	1. Sometime 2021-04-30 – 2021-05-01	
		2. On or around 2021-05-18	
		3. On or around 2021-06-16	
		4. Sometime 2021-06-18 – 2021-08-11	
		5. On or around 2021-08-31	
		6. On or around 2021-09-10	

Case 3:22-cv-07513-JD Document 1-1 Filed 11/30/22 Page 11 of 15

CITIZEN LAB RESEARCH REPORT NO. 148

Individual	Organization	Dates of Successful Hacking
Óscar Martínez	El Faro	1. On or around 2020-07-15
		2. On or around 2020-07-21 – 2020-07-28
		3. On or around 2020-08-12
		4. On or around 2020-08-17
		5. On or around 2020-08-19
		6. On or around 2020-09-12
		7. On or around 2020-09-29
		8. On or around 2020-10-01
		9. On or around 2020-10-03
		10. On or around 2020-10-29
		11. On or around 2020-11-12
		12. On or around 2020-11-16
		13. On or around 2020-11-18
		14. On or around 2020-12-07
		15. On or around 2020-12-10
		16. On or around 2020-12-18
		17. On or around 2020-12-20
		18. On or around 2020-12-22
		19. On or around 2021-01-08
		20. On or around 2021-01-10
		21. On or around 2021-01-13
		22. On or around 2021-01-26
		23. On or around 2021-01-27
		24. On or around 2021-02-21
		25. On or around 2021-03-08
		26. On or around 2021-03-15
		27. On or around 2021-03-18
		28. On or around 2021-03-25
		29. On or around 2021-04-01
		30. On or around 2021-05-03
		31. On or around 2021-05-03
		32. On or around 2021-06-02
		33. On or around 2021-06-02
		34. On or around 2021-06-22
		34. On or around 2021-06-22 35. On or around 2021-06-23
		36. On or around 2021-07-07
		37. On or around 2021-08-30
		38. On or around 2021-09-08
		39. On or around 2021-09-27
		40. On or around 2021-10-08
		41. On or around 2021-10-25
		42. On or around 2021-10-30

- PROJECT TOROGOZ

Individual	Organization	Dates of Successful Hacking
Roman Gressier	El Faro	1. On or around 2021-05-17
		2. On or around 2021-05-21
		3. On or around 2021-06-21
		4. On or around 2021-06-23
Roxana Lazo	El Faro	1. On or around 2021-04-19
		2. On or around 2021-04-27
		3. On or around 2021-06-02
		4. On or around 2021-06-07
		5. On or around 2021-06-23
		6. On or around 2021-06-24
		7. On or around 2021-07-06
		8. On or around 2021-09-10
		9. On or around 2021-09-24
		10. On or around 2021-10-02
		11. On or around 2021-10-21
		12. On or around 2021-11-02
Sergio Arauz	El Faro	1. Sometime 2020-08-12 – 2020-08-19
		2. Sometime 2020-09-10 – 2020-09-11
		3. Sometime 2020-09-13 – 2020-09-14
		4. Sometime 2020-09-18 – 2020-09-22
		5. On or around 2021-05-07
		6. On or around 2021-06-02
		7. Sometime 2021-06-09 – 2021-06-10
		8. On or around 2021-06-11
		9. On or around 2021-06-17
		10. On or around 2021-06-24
		11. On or around 2021-06-25
		12. On or around 2021-07-02
		13. On or around 2021-07-09
		14. On or around 2021-10-21
Valeria Guzmán	El Faro	1. Sometime 2020-07-04 – 2020-07-14
		2. On or around 2021-09-03
		3. On or around 2021-09-29
		4. On or around 2021-10-12
		5. On or around 2021-10-25
		6. On or around 2021-11-04
		7. On or around 2021-11-11
		8. On or around 2021-11-19
Víctor Peña	El Faro	1. Sometime 2021-11-22 – 2021-11-23
(Individual #2)	El Faro	1. Sometime 2020-09-09 – 2020-09-16
		2. On or around 2021-09-30
		3. Sometime 2020-11-16 – 2020-11-26

CITIZEN LAB RESEARCH REPORT NO. 148

Individual	Organization	Dates of Successful Hacking
(Individual #3)	El Faro	1. Sometime 2020-09-07 – 2020-10-17
		2. Sometime 2020-11-30 – 2021-01-16
		3. On or around 2021-05-21
Jose Marinero	Fundación DTJ	1. On or around 2021-04-08
		2. On or around 2021-09-12
Xenia Hernandez	Fundación DTJ	1. On or around 2021-02-23
		2. On or around 2021-03-17
		3. On or around 2021-04-29
		4. On or around 2021-05-01
		5. On or around 2021-05-04
		6. Sometime 2021-05-04 – 2021-05-07
		7. On or around 2021-05-07
		8. On or around 2021-05-11
		9. On or around 2021-05-17
		10. On or around 2021-05-21
		11. On or around 2021-06-02
		12. On or around 2021-06-13
		13. On or around 2021-06-15
		14. On or around 2021-06-28
		15. On or around 2021-06-30
		16. On or around 2021-11-09
		17. On or around 2021-11-16
Beatriz Benitez	GatoEncerrado	1. On or around 2021-07-01
Ezequiel Barrera	GatoEncerrado	1. Sometime 2020-09-10 – 2020-09-11
		2. Sometime 2021-04-06 – 2021-04-11
		3. Sometime 2021-04-13 – 2021-04-16
		4. Sometime 2021-04-23 – 2021-04-25
		5. On or around 2021-06-07
		6. On or around 2021-06-21
		7. On or around 2021-06-30
		8. On or around 2021-07-08
		9. On or around 2021-09-19
Xenia Oliva	GatoEncerrado	1. Sometime 2020-11-12 – 2020-11-25
(Phone #1)		2. Sometime 2021-02-17 – 2021-02-26
		3. Sometime 2021-02-28 – 2021-03-09
		4. On or around 2021-04-08
		5. On or around 2021-05-21
Xenia Oliva (Phone #2)	GatoEncerrado	1. On or around 2021-10-26
		2. On or around 2021-11-04
(Individual #4)	La Prensa Gráfica	1. On or around 2021-09-27
Oscar Luna	Revista Digital	1. On or around 2021-04-18
	Disruptiva	2. On or around 2021-09-29
(Individual #5)	(NGO #1)	1. On or around 2021-05-21

PROJECT TOROGOZ

Individual	Organization	Dates of Successful Hacking
Mariana Belloso	Mariana Belloso (Independent	1. On or around 2021-09-29
	Journalist)	2. On or around 2021-10-09
Carmen Tatiana Marroquín	(Economist and Columnist for Independent Media)	1. On or around 2021-09-05