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17 UNITED STATES DISTRICT COURT

18 DISTRICT OF NEVADA

19
20 MICROSOFT CORPORATION,

21 Plaintiff,

22 vs.

23 NASER AL MUTAIRI, an individual;
24 MOHAMED BENABDELLAH, an individual;
VITALWERKS INTERNET SOLUTIONS,
25 LLC, d/b/a NO-IP.com; and DOES 1-500,

26 Defendants.
27
28

) Case No. 14-cv-0987

) **FILED UNDER SEAL**

) **BRIEF IN SUPPORT OF APPLICATION**
) **OF MICROSOFT CORPORATION FOR AN**
) **EMERGENCY TEMPORARY**
) **RESTRAINING ORDER AND ORDER TO**
) **SHOW CAUSE REGARDING**
) **PRELIMINARY INJUNCTION**

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1 **INTRODUCTION**

2 In early 2014, Microsoft investigated the top malware threats impacting its consumers. It
3 found that a significant amount of malware was programmed to connect to Internet domains owned
4 and leased by Defendant Vitalwerks (or No-IP). Further investigation revealed that No-IP is a major
5 hub of malware activity and in particular, the Bladabindi/Jenxcus malware. Microsoft seeks this
6 Temporary Restraining Order (TRO) to put a stop to the harm caused by this malware and requests
7 an order that will allow it to block traffic between infected computers and malicious No-IP sub-
8 domains, through which the Malware Defendants (Mutairi, Benabdellah, and Does 1-500)
9 communicate with the infected computers.

10 An *ex parte* application for a TRO is warranted and necessary here. First, given the Malware
11 Defendants' abusive conduct, which Defendant Vitalwerks enables through its Dynamic DNS
12 service, Microsoft is likely to succeed on the merits of its computer-abuse and common law claims.
13 Second, Defendants' conduct has caused Microsoft irreparable harm including the loss of goodwill,
14 brand integrity, and resources expended to investigate and combat this abuse. And Microsoft is not
15 the only one harmed—with the malware, Defendants are able to control user computers and steal
16 sensitive information from unknowing and unsuspecting Microsoft customers and the public at large,
17 causing them untold harm. Third, the balance of hardships weighs in Microsoft's favor. The
18 Malware Defendants' criminal activities serve no legitimate purpose, and Microsoft only seeks to
19 block traffic to the malicious sub-domains. Defendant Vitalwerks generates no known income from
20 offering this free service. Thus, there is no hardship on Defendants or any third party. Fourth, the
21 public interest is served by granting the TRO because the harm Defendants inflict on Microsoft and
22 its customers also harms millions of other computer users and companies worldwide as well.

23 Additionally, *ex parte* relief is required here where advanced notice will permit Defendants,
24 who exist and operate primarily in a virtual world, to disappear without a trace, thus rendering
25 Microsoft's efforts fruitless. Advanced notice would further thwart Microsoft's efforts to stop this
26 abuse because Defendants will destroy evidence necessary for Microsoft to prove its claims. If this
27 Court grants the *ex parte* relief, Microsoft will provide notice of the hearing and serve all Defendants
28 with the complaint and TRO by all means necessary.

STATEMENT OF FACTS

Vitalwerks’s Free Dynamic DNS Service Is a Hub of Malware Activity

This case began as an investigation by Microsoft into the top malware threats impacting its customers. (Lyons Decl. ¶ 10.) To do this, Microsoft began to monitor data it was receiving from anti-malware utilities running on its consumers’ computers. (*Id.*) When malware is detected, it sends data back to Microsoft, and from this data, Microsoft can identify the type of malware, whether it can be safely removed, and whether the malware is hard coded to communicate with other computers. (*Id.*) Microsoft determined from this investigation that a significant number of cases involved malware programmed to communicate with No-IP Internet sub-domains, owned and leased by Defendant Vitalwerks as part of its free Dynamic DNS service. (*Id.*)

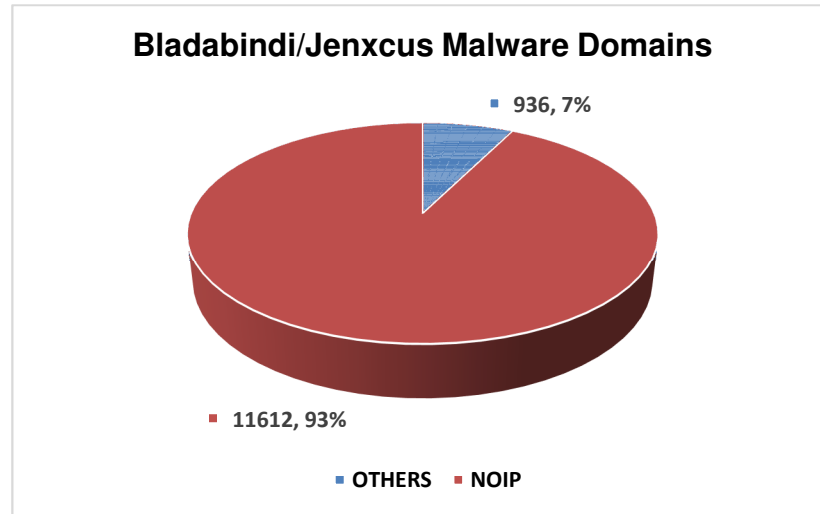
Further investigation showed that No-IP is functioning as a major hub for 245 varieties of malware circulating on the Internet. (*Id.* ¶ 11.) Through No-IP sub-domains, a very large number of small, transient websites are provided a continuous Internet presence. (*Id.* ¶ 12.) For example, malware on a person’s infected computer might be programmed to contact “hacker-0005.no-ip.biz.” (*Id.*) The person’s computer would first contact no-ip.biz to get the address of the virus sub-domain, which has a dynamic IP address and is frequently changing. (*Id.*) No-ip.biz, however, would have the current IP address due to the Dynamic Update Client constantly updating No-IP’s servers, and no-ip.biz would be able to direct the person’s computer onward. (*Id.*) Thus, the Dynamic DNS system provides computers that move from IP address to IP address a stable domain name for malware infected computers to contact. (*Id.*) As long as that computer updates no-ip.biz as to its current IP address, malware infected machines attempting to reach it will always be able to do so. (*Id.*)

Dynamic DNS can be exploited to support and monetize cybercrime activities. This fact is evident from the massive number of malware supported by No-IP domains. By studying thousands of samples of malware, Microsoft has been able to identify approximately **18,472 sub-domains** of No-IP that used by malware distributors, and there are likely many more. (*Id.* ¶ 13.) Other Internet security researchers have observed the same. (*Id.*)

//

The Majority of Malware Using No-IP is Bladabindi/Jenxcus

By far, the majority of malware using No-IP domains is from the Bladabindi/Jenxcus family of malware. (Lyons Decl. ¶ 15.) Furthermore, as shown in the figure below, 93% of domains supporting Bladabindi/Jenxcus are No-IP domains. (*Id.*)



Defendant Mutairi is the creator and owner of Bladabindi. (Tan Seng Decl. ¶ 7.) Defendant Benabdellah created a variant of the Jenxcus malware that is closely related in function to Bladabindi. (*Id.*) Bladabindi/Jenxcus malware can be downloaded by other cybercriminals who then can use the malware’s “dashboard” created by Defendant Mutairi to customize the malware to suit their needs. (*Id.* ¶ 21.) The dashboard is a user interface that allows the user to customize the malware and control the infected computers. (*Id.*) Microsoft has detected over 7,486,833 instances of Windows computers that have encountered one or more versions of Bladabindi or Jenxcus malware in the past year. (*Id.* ¶ 28.) This likely represents only a small subset of the number of computers because Microsoft is only able to monitor machines running its anti-malware software. (*Id.*) Based on market share data, the total number of detections over the past year may easily be two to three times this amount. (*Id.*)

Bladabindi/Jenxcus Infected Computers Become Part of a Botnet

When a computer is infected with Bladabindi or Jenxcus, it becomes part of a “botnet.” (Lyons Decl. ¶ 16.) A botnet is a collection of individual computers, each running malware that allows communications between the infected computers to one or more other computers controlled

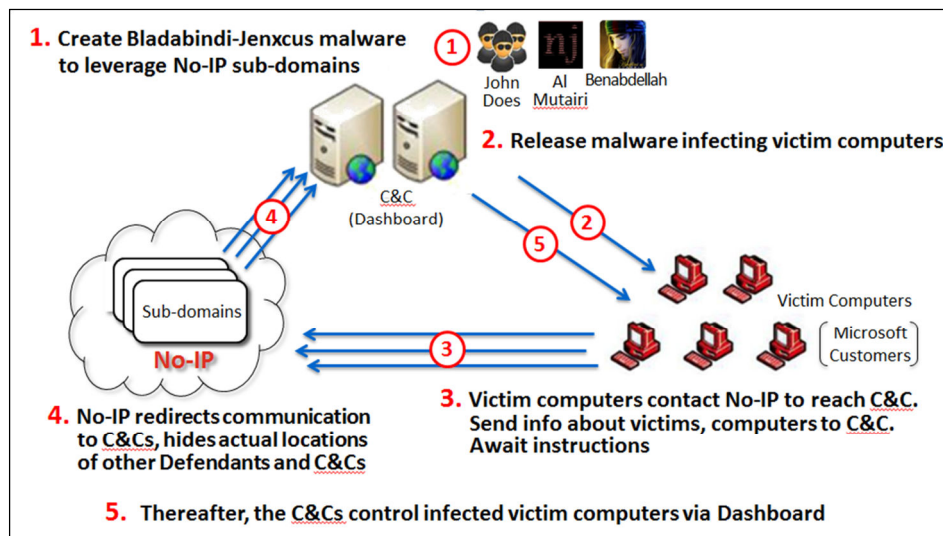
1 by the distributor of the malware, typically referred to as the “command and control.” (*Id.*) Through
2 the command-and-control computer or computers, cybercriminals are able to control the infected
3 computer, steal information from the infected computer, and provide instructions or additional
4 malware modules to the infected personal computers and upload data from them. (*Id.*)
5 Cybercriminals often use botnets because of their ability to support a wide range of illegal conduct,
6 their resilience against attempts to disable them, and their ability to conceal the identities of the
7 malefactors controlling them. (*Id.*)

8 Microsoft has carefully studied the Bladanindi and Jenxcus botnet architecture, design, and
9 functions. A Bladabindi/Jenxcus botnet consists of two tiers: the infection tier and the command-
10 and-control tier. (Lyons Decl. ¶ 16.) The infection tier is comprised of infected personal computers
11 owned by innocent and unsuspecting people. (*Id.*) These might be office or home desktop
12 computers, laptop computers, computers in public libraries, and so forth. (*Id.*) Computers can
13 become infected in one of several ways. A person may use an infected thumb-drive borrowed from
14 a friend or colleague that contains the malware; access a malicious link or hacked website on which
15 the malware downloader is staged; or download other malware containing instructions to download
16 Bladabindi or Jenxcus. (Tan Seng Decl. ¶¶ 9-11.)

17 Once Bladabindi/Jenxcus has been downloaded, the user still needs to access the malicious
18 file for the malware to become active. Here, the malware tricks consumers into opening and running
19 the file by disguising itself as a legitimate file. (*Id.* ¶ 12.) The malware uses deceptive file names
20 and icons that are familiar to the user, such as “Facebook.exe,” or that entice the user to open the file
21 like “StartupFaster.exe” or “hot.exe.” (*Id.*) Some Jenxcus variations will use the same name and
22 icon as files already present on the user’s thumb-drive. (*Id.*) When the malware is run, it will copy
23 itself to a location on the user’s computer that ensures that the malware will run every time the
24 computer is started. (*Id.*)

25 Once the malware is activated, it will instruct the infected computer to contact the command-
26 and-control computer (the second tier in the botnet) to let it know that the computer is ready to
27 receive instructions from a Malware Defendant. (Lyons Decl. ¶ 18.) Malware Defendants program
28 the malware to instruct the infected computer to reach out to a specific domain, which will resolve to

1 the IP address for the command-and-control computer, as depicted in the diagram below. (*Id.* ¶ 19;
2 Tan Seng Decl. ¶ 25.)



12 Once the infected computer is directed to the command and control, the Malware Defendant can then
13 directly communicate with the infected computer. (Lyons Decl. ¶ 20.) No-IP domains are part of
14 the botnet infrastructure. Without No-IP domains, the infected computers would not be able to
15 locate the Malware Defendants' command-and-control computers. (*Id.*; Tan Seng Decl. ¶ 19.)

16 Once the computer is infected with Bladabindi or Jenxcus, the Malware Defendants gain
17 control over the consumers' computers, and they can conduct a variety of illegal and harmful
18 activities, including accessing the user's files, turning on the computer's video camera or
19 microphone to record victims, recording keystrokes to obtain sensitive information like passwords
20 and credit card numbers, taking snapshots of the user's desktop, and sending commands to download
21 additional malware. (Tan Seng Decl. ¶¶ 18, 21-23.)

22 **Vitalwerks Is on Notice That Its Services Are Being Abused**

23 The Internet security community has taken notice of the abuse occurring on No-IP's sub-
24 domains. In April 2013, OpenDNS published an article online detailing its investigation into
25 Dynamic DNS abuse, and it identified No-IP sub-domains as the most used for malicious intent of
26 any other provider. (Haimovici Decl. ¶ 32 & Ex. 23.) No-IP published the following response,
27 representing that the company had a strict abuse policy and an abuse team was "constantly working"
28 to combat computer fraud and crimes:

1 No-IP, we have a very strict abuse policy. Our abuse team is constantly working to
 2 keep our domains free of spam and malicious activity. Even with such precautions,
 3 our services do fall prey to cyberscammers and spammers. We highly encourage our
 4 users and others to let us know if they come across a hostname that isn't abiding by
 5 our Terms of Service. We dislike spammers and scammers just as much as everyone
 else. To report a violation of our TOS or any other abuses of our services, please
 email abuse@no-ip.com.

6 (*Id.* ¶ 33 & Ex. 23.) Despite its representation of having a “very strict abuse policy,” the abuse on
 7 No-IP sub-domains continued.

8 Another Internet security group, Cisco, published an article on February 11, 2014 that again
 9 outlined the extensive abuse occurring on No-IP domains, including the distribution of malware.
 10 (Haimovici Decl. ¶ 34 & Ex. 24.) No-IP published a similar response and even provided that the
 11 company “work[s] with law enforcement daily to ensure that we are doing our part to keep the
 12 internet safe.” (*Id.* ¶ 34 & Ex. 25.) Other Internet security firms have made similar reports. (Lyons
 13 Decl. ¶ 13.) Nonetheless, the extensive abuse of No-IP sub-domains continued. After the February
 14 Cisco report was published, Microsoft continues to see 2,000-3,000 new unique malware samples
 15 per month that are supported by No-IP. (*Id.*)

16 ARGUMENT

17 A TRO or preliminary injunction is warranted where the movant establishes (1) a likelihood
 18 of success on the merits; (2) that it is likely to suffer irreparable harm in the absence of preliminary
 19 relief; (3) that the balance of hardships tip in favor of granting the requested relief; and (4) that
 20 injunctive relief is in the public interest. *Dumas v. Gommerman*, 865 F.2d 1093, 1095 (9th Cir.
 21 1989); *see also Cal. Indep. Sys. Operator Corp. v. Reliant Energy Servs., Inc.*, 181 F. Supp. 2d 1111,
 22 1126 (E.D. Cal. 2011); *ViaView, Inc. v. Blue Mist Media*, 2012 WL 6007204, at *1-2 (D. Nev. Nov.
 23 30, 2012). Microsoft has met these requirements here. Microsoft has also successfully obtained
 24 TROs in eight other cases involving cybercriminals who were committing similar malicious acts—
 25 distributing malware, setting up botnets, and causing harm to Microsoft and its consumers.¹

26 _____
 27 ¹ *See* Haimovici Decl. Exs. 29-30, *Microsoft Corp. v. John Does 1-8*, No. 1:13-cv-01014 (W.D. Tex.
 28 Nov. 25, 2013, Dec. 12, 2013) (order granting *ex parte* TRO to dismantle botnet command-and-control servers and voluntary dismissal following success under TRO and plaintiff's desire to assist law enforcement); Ex. 31-32, *Microsoft v. John Does 1-82*, No. 3:13-cv-319 (W.D.N.C. May 29,

1 **I. Microsoft Is Likely To Succeed On The Merits On Each Of Its Claims**

2 The Complaint sets forth the following statutory and common law claims: (1) violations of
3 the Computer Fraud and Abuse Act (18 U.S.C. § 1030), (2) violations of the Anti-Cybersquatting
4 Consumer Protection Act (15 U.S.C. § 1125), (3) violations of Unlawful Acts Regarding Computers
5 and Information Services Statute (N.R.S. § 205.473), (4) trespass to chattels/computer trespass, (5)
6 conversion, and (6) negligence.

7 **A. The Computer Fraud and Abuse Act**

8 Microsoft asserts that Malware Defendants violated the Computer Fraud and Abuse Act. The
9 Computer Fraud and Abuse Act (“CFAA”) penalizes a party that does the following acts:

- 10
- 11 • Intentionally accesses a computer without authorization or exceeds authorized
12 access,² and thereby obtains information from any protected computer (18 U.S.C. §
13 1030(a)(2)(C));
 - 14 • Knowingly and with intent to defraud, accesses a protected computer without
15 authorization, or exceeds authorized access, and by means of such conduct furthers
16 the intended fraud and obtains anything of value, unless the object of the fraud and
17 the thing obtained consists only of the use of the computer and the value of such use
18 is not more than \$5,000 in any 1-year period (18 U.S.C. § 1030(a)(4);
 - 19 • Knowingly causes the transmission of a program, information, code, or command,
20 and as a result of such conduct, intentionally causes damage without authorization, to
21 a protected computer (18 U.S.C. § 1030(a)(5)(A));

22 2013, Jun. 10, 2013) (order granting *ex parte* TRO to take down Citadel botnet and preliminary
23 injunction); Ex. 33-34, *Microsoft v. John Does 1-18*, No. 1:13-cv-139 (E.D. Va. Jan. 31, 2013, Feb.
24 13, 2013) (orders granting *ex parte* TRO and preliminary injunction against defendants responsible
25 for Bamital botnet); Exs. 35-36, *Microsoft v. Yong et al.*, No. 1:12-cv-1004 (E.D. Va. Sept. 10, 2012,
26 Sept. 28, 2012) (order granting *ex parte* TRO to redirect botnet communications through 3222.org and its
27 sub-domains and voluntary dismissal after settlement with defendants); Exs. 37-38, *Microsoft Corp. v.*
28 *John Does 1-39*, No. 1:12-cv-01335 (E.D.N.Y. Mar. 19, 2012, Mar. 29, 2012) (orders granting *ex*
parte TRO and preliminary injunction to dismantle botnet command-and-control servers); Exs. 39-
40, *Microsoft Corp. v. Piatti*, No. 1:11-cv-1017 (E.D. Va. Sept. 22, 2011, Oct. 12, 2011) (same);
Exs. 41-42, *Microsoft Corp. v. John Does 1-11*, No. 2:11-cv-00222 (W.D. Wash. Mar. 9, 2011, April
6, 2011) (same); Exs. 43-44, *Microsoft Corp. v. John Does 1-27*, No. 1:10-cv-00156 (E.D. Va. Feb.
22, 2010, Mar. 10, 2010) (same); *see also* Exs. 45-46, *FTC v. Pricewert LLC*, No. 09-2407 (N.D.
Cal. June 2, 2009, June 15, 2009) (orders granting *ex parte* TRO and preliminary injunction
disconnecting service to botnet hosting company).

² The term “exceeds authorized access” means to access a computer with authorization and to use
such access to obtain or alter information in the computer that the accesser is not entitled to obtain or
alter. 18 U.S.C. § 1030(e)(6).

- 1 • Intentionally accesses a protected computer without authorization, and as a result of such conduct, recklessly causes damage (18 U.S.C § 1030(a)(5)(B)); or
- 2 • Intentionally accesses a protected computer³ without authorization, and as a result of such conduct, causes damage⁴ and loss⁵ (18 U.S.C. § 1030(a)(5)(C)).

3
4 Malware Defendants intentionally send malicious code to Microsoft's and its customers' protected computers and operating systems, without authorization, in order to infect those computers. The evidence submitted in support of this motion demonstrates that Microsoft and its customers are damaged by this intrusion. These Defendants deceive consumers into downloading and then installing the malware without Microsoft's or its consumers' authorization. (Tan Seng Decl. ¶¶ 9-10.) Once installed, the malware runs without the customers' or Microsoft's knowledge or consent and specifically targets the Windows operating system. After the person's computer is infected with the malware, it is then subject to the control of the hacker. (*Id.* ¶¶ 21-23.) The hacker can use the victim's computer and the malware for any number of malicious purposes, such as stealing personal information stored on the system, hijacking the computer's camera and recording videos without the user's knowledge or consent, theft of personal data such as passwords and financial credentials through key-logging, click-fraud, sending requests to download other malicious software on the computer, or otherwise using it to carry out fraud, computer intrusions, or other malicious and illegal conduct. (*Id.*)

18 This is precisely the type of activity that the CFAA is designed to prevent. *See, e.g., Facebook, Inc. v. Fisher*, 2009 WL 5095269, at *2-3 (N.D. Cal. Dec. 21, 2009) (granting a TRO under CFAA where defendants allegedly engaged in a phishing and spamming scheme that compromised the accounts of Facebook users); *Physicians Interactive v. Lathian Sys.*, 2003 U.S.

23 ³ A "protected computer" is a computer "which is used in or affecting interstate or foreign commerce or communication, including a computer located outside the United States that is used in a manner that affects interstate or foreign commerce or communications in the United States." 18 U.S.C. § 1030(e)(2)(B).

24 ⁴ The term "damage" means any impairment to the integrity or availability of data, a program, a system, or information. 18 U.S.C. § 1030(e)(8).

25 ⁵ The term "loss" means any reasonable cost to any victim, including the cost of responding to an offense, conducting a damage assessment, and restoring the data, program, system, or information to its condition prior to the offense, and any revenue lost, cost incurred, or other consequential damages incurred because of interruption of service. 18 U.S.C. § 1030(e)(11).

1 Dist. LEXIS 22868, at *30-31 (E.D. Va. Dec. 5, 2003) (granting TRO and preliminary injunction
2 under CFAA where defendant hacked into a computer and stole confidential information); *Global*
3 *Policy Partners, LLC v. Yessin*, 686 F. Supp. 2d 631, 635-37 (E.D. Va. 2009) (accessing computer
4 using credentials that did not belong to defendant actionable under the CFAA). Indeed, some courts
5 have appropriately observed that the CFAA was targeted at “computer hackers (e.g., electronic
6 trespassers).” *State Analysis, Inc. v. Am. Fin. Svcs. Assoc.*, 621 F. Supp. 2d 309, 315 (E.D. Va.
7 2009) (citation omitted).

8 **B. The Anti-Cybersquatting Consumer Protection Act**

9 Defendants have violated the Anti-Cybersquatting Consumer Protection Act (“ACPA”) by
10 having registered, trafficked in, or used domain names containing the terms “Microsoft” or
11 “Windows,” which are protected marks owned by Microsoft. The ACPA provides civil remedies for
12 trademark holders seeking relief against parties infringing upon their marks in connection with
13 website domain names. *Super-Krete Int’l, Inc. v. Sadleir*, 712 F. Supp. 2d 1023, 1030 (C.D. Cal.
14 2010). A plaintiff establishes civil liability for such “cyberpiracy” by proving that (1) the defendant
15 registered, trafficked in, or used a domain name; (2) the domain name is confusingly similar or
16 dilutive to a protected mark owned by the plaintiff; and (3) the defendant acted “with bad faith intent
17 to profit from that mark.” *DSPT Intern., Inc. v. Nahum*, 624 F.3d 1213, 1218-19 (9th Cir. 2010); *see*
18 *also* 15 U.S.C. § 1125(d)(1)(A).

19 All three of these elements exist here. Defendant Vitalwerks is the registered owner of the
20 No-IP domains, and it authorizes the Malware Defendants to use sub-domains of its registered
21 domains that contain Microsoft’s protected marks. (Haimovici Decl. ¶ 6.) The Malware Defendants
22 in turn use these domains to communicate with infected computers and to further their botnet
23 activities and other illegal schemes. The names of the sub-domains are confusingly similar to
24 Microsoft’s famous MICROSOFT and WINDOWS marks because they incorporate the correctly-
25 spelled MICROSOFT or WINDOWS mark. *See* Ex. C to Compl. (listing 64 infringing domains);
26 *see also Perfumebay.com Inc. v. eBay, Inc.*, 506 F.3d 1165, 1174-76 (9th Cir. 2007) (finding
27 likelihood of confusion in trademark infringement case based on similarity of the challenged domain
28 name, “perfumebay.com” to plaintiff’s protected mark and domain name “ebay.com”).

1 As for the third prong, the statute lists nine permissive factors that may be considered in
2 “determining whether a person has bad faith intent.” 15 U.S.C. § 1125(d)(1)(B)(i); *Lahoti v.*
3 *VeriCheck, Inc.*, 586 F.2d 1190, 1202 (9th Cir. 2009). None of the factors favors Defendants.
4 Defendant Vitalwerks owns and leases the Malware Domains, which the Malware Defendants use,
5 and many of the domains are nearly identical to the domain for Microsoft’s bona fide website at
6 microsoft.com and all of which contain or are nearly identical to Microsoft’s famous marks.
7 Moreover, the Malware Domains serve no legitimate purposes. “The registration of typosquatting
8 domains shows [Defendants]’ intent to illicitly profit from the [Plaintiff’s] mark, as there is no value
9 independent of the infringement, as evidenced by the lack of association with any bona fide goods or
10 services.” *Facebook, Inc. v. Banana Ads LLC*, 2013 WL 1873289, at *7 (N.D. Cal. Apr. 30, 2013).

11 The eighth factor describes the Malware Defendants’ bad faith exactly: “the person’s
12 registration or acquisition of multiple domain names which the person knows are identical or
13 confusingly similar to marks of others that are distinctive at the time of registration of such domain
14 names, or dilutive of famous marks of others that are famous at the time of registration of such
15 domain names, without regard to the goods or services of the parties.” 15 U.S.C. § 1125(d)(1)(B)(i).
16 Registering and using multiple infringing domain names, combined with a lack of bona fide services
17 and lack of other defenses, is sufficient for bad faith. *Banana Ads*, 2013 WL 1873289, at *7;
18 *Pinterest, Inc. v. Qian Jin*, 2013 WL 5460821, at *2 (N.D. Cal. Sept. 30, 2013).

19 **C. Nevada’s Computer Fraud Statute**

20 The Unlawful Acts Regarding Computers and Information Services Statute (“UARC”)
21 prohibits a person from “knowingly, willfully and without authorization” modifying, damaging,
22 destroying, disclosing, using, transferring, concealing, taking, retaining possession of, copying,
23 obtaining or attempting to obtain access to, permitting access to or causing to be accessed, or
24 entering “data, a program or any supporting documents which exist inside or outside a computer,
25 system or network.” N.R.S. § 205.4765(1). UARC also prohibits similar conduct in regards to
26 “equipment or supplies that are used or intended to be used in a computer, system or network” or
27 simply directing such activities at “a computer, system or network.” N.R.S. § 205.4765(2)-(3).
28 UARC also makes a person subject to criminal and civil liability for “knowingly, willfully and

1 without authorization” obtaining and disclosing, publishing, transferring, or using “a device used to
 2 access a computer, network or data,” or introducing, causing to be introduced or attempting to
 3 introduce a “computer contaminant into a computer, system or network.”⁶ N.R.S. § 205.4765(4-(5));
 4 *see also* N.R.S. § 205.511 (“Any victim of a crime described in N.R.S. [§§] 205.473 to 205.513,
 5 inclusive, may bring a civil action to recover: (a) Damages for any response costs, loss or injury
 6 suffered as a result of the crime; (b) Punitive damages; and (c) Costs and reasonable attorney’s fees
 7 incurred in bringing the civil action.”).

8 Here, Defendants Mutairi and Benabdellah knowingly, willfully and without authorization
 9 published and transferred the Bladabindi/Jenxcus malware to the Doe Defendants, and the Does
 10 knowingly, willfully and without authorization used the malware to access victims’ computers,
 11 including the Microsoft operating system and data on those computers in violation of sections
 12 205.4765(4) and (5). Malware Defendants have also violated section 205.4765(1) and (3) by
 13 enlisting the victims’ computers into a botnet, exercising control over those computers, interfering
 14 with Microsoft’s operating system or antivirus programs running on those machines, obtaining or
 15 attempting to obtain private information from those computers such as user names and passwords,
 16 snapshots of the user’s desktop, and videos taken from the computer’s video camera. (Tan Seng
 17 Decl. ¶¶ 21-23.)

18 **D. Trespass to Chattels/Conversion**

19 A trespass to chattels occurs where a defendant intentionally and without justification or
 20 consent, interferes with the use and enjoyment of personal property in the plaintiff’s possession and,
 21 as a result, causes damages. *U-Haul Co. of Nev., Inc. v. U.S.*, 2011 WL 3273873, at *3 (D. Nev.
 22 July 29, 2011); *Oracle USA, Inc. v. Rimini Street, Inc.*, 2010 WL 3257933, at *5 (D. Nev. Aug. 13,
 23 2010) (*quoting* RESTATEMENT (SECOND) OF TORTS § 218 (1965)); *Cerros v. North Las Vegas Police*
 24 *Dept.*, 2008 WL 608641, at *4 (D. Nev. Feb. 29, 2008) (*quoting* RESTATEMENT (SECOND) OF TORTS
 25 § 218 (1965)). Similarly, “the tort of conversion ““is a distinct act of dominion wrongfully exerted
 26 over personal property in denial of, or inconsistent with, title or rights therein or in derogation,
 27

28 ⁶ The statute defines a computer contaminant to include a “virus, worm or Trojan horse.” N.R.S. § 205.4737(2)(a).

1 exclusion or defiance of such rights.” *U-Haul Co. of Nev., Inc.*, 2011 WL 3273873, at *3 (quoting
2 *Edwards v. Emperor’s Garden Restaurant*, 130 P.3d 1280, 1287 (Nev. 2006)); *see also Kremen v.*
3 *Cohen*, 337 F.3d 1024, 1035-36 (9th Cir. 2002) (court held that Internet domain name could serve as
4 basis for registrant’s conversion claim under California law); *Thyroff v. Nationwide Mut. Ins. Co.*,
5 864 N.E.2d 1272, 1272, 1275-76 (N.Y. 2007) (conversion applies to electronic computer records and
6 data).

7 Malware Defendants have interfered with and taken as their own Plaintiff’s resources, by
8 installing software that interferes with Microsoft’s licensed Windows operating system and customer
9 computers. The unauthorized installation of malware that allows control over the computer causes
10 injury to the value of the Windows operating system and the infected computer itself. Thus, this
11 conduct is an illegal trespass and also constitutes conversion. *Kremen*, 337 F.3d at 1034
12 (recognizing that hacking into a computer system and injuring data supports a conversion claim);
13 *Astroworks, Inc. v. Astroexhibit, Inc.*, 257 F. Supp. 2d 609, 618 (S.D.N.Y. 2003) (in deciding motion
14 to dismiss, court held plaintiff could maintain claim for conversion of his website); *Physicians*
15 *Interactive*, 2003 U.S. Dist. LEXIS 22868, at *30-31 (TRO and preliminary injunction granted
16 where defendant hacked computers and obtained proprietary information, holding “there is a
17 likelihood that the two alleged attacks that [Plaintiff] traced to Defendants were designed to
18 intermeddle with personal property in the rightful possession of Plaintiff.”); *State v. Riley*, 846 P.2d
19 1365, 1371 (Wash. 1993) (affirming conviction for “computer trespass” under Washington law for
20 defendants’ “hacking activity”); *see also Bancroft & Masters, Inc. v. Augusta Nat’l Inc.*, 223 F.3d
21 1082, 1089 (9th Cir. 2000) (in a case involving a domain name, the question on appeal was personal
22 jurisdiction, but a majority joined in the opinion on the assumption defendant “engaged in tortious
23 conduct” because it intended to effect a conversion of plaintiff’s domain name).

24 **E. Negligence**

25 The elements of a claim for negligence are “(1) the existence of a duty of care, (2) breach of
26 that duty, (3) legal causation, and (4) damages.” *U.S. v. Miners Contracting and Support, Inc.*, 2014
27 WL 293438, at *2 (D. Nev. Jan. 24, 2014) (quoting *Sanchez v. Wal-Mart Stores, Inc.*, 221 P.3d
28 1276, 1280 (Nev. 2009)). Microsoft asserts that Defendants Vitalwerks is negligent because it

1 breached one or more duties of care it owed to Microsoft and its consumers by failing to take
2 preventative or remedial measures to remedy the abuse of its services. These duties arise from: 1)
3 best practices in the industry, 2) assumption of a duty through the company's representations to the
4 public, including its Terms of Service, and 3) contractual obligations with the registry operators and
5 ICANN.

6 First, Defendant Vitalwerks owed a duty of care to utilize the best practices in the industry
7 that when implemented, would curb Malware Defendants use of No-IP for illegal activities. These
8 best practices include:

- 9 • Require free Dynamic DNS subscribers to provide a name, address, telephone
10 number, and IP address to register for a free sub-domain;
- 11 • Make the subscribers' information including sub-domain names publicly available in
12 a searchable database;
- 13 • Use of a web reputation service that would identify bad sub-domain activity; and
- 14 • Encrypting No-IP user names and passwords and storing them someone other than the
15 subscriber's registry.

16 (Lyons Decl. ¶ 21.)

17 By failing to collect and make available identifying information about its sub-domain
18 subscribers, Defendant Vitalwerks makes its services susceptible to abuse. (*Id.*) Defendant also
19 makes its service attractive to abuse because it fails to engage in best practices to keep its subscribers'
20 user names and passwords safe, making it easy for bad actors to hack legitimate subscribers'
21 accounts. (*Id.*) Moreover, Defendant Vitalwerks has been on notice since at least the beginning of
22 2013 that its services were being abused, and yet it failed to sufficiently monitor and block malicious
23 sub-domain traffic by using tools available to it like web reputation services.

24 Second, Defendant Vitalwerks assumed a duty to monitor, detect, prevent, and remedy abuse
25 of its services with the representations it made to the public, on its website and in blog postings, that
26 it would do so. (Haimovici Decl. ¶¶ 31-34.) Defendant's own Terms of Service prohibits its
27 subscribers from abusing or fraudulently using the No-IP service, interfering or tampering with
28 another subscriber's use of the service, causing or attempting to cause harm to another computer or

1 network, or using the service in any way that violates the law or Internet regulations. (*Id.*, Ex. 5.)
2 Defendants must also be held to this same standard of conduct. By reassuring the Internet security
3 community, its customers, and the general public, all the while continuing to make its services
4 attractive to abusers, Defendant voluntarily assumed a duty to prevent or stop the Malware
5 Defendants' conduct. See *Wright v. Schum*, 781 P.2d 1142, 1145-47 (Nev. 1989) (holding that
6 defendant voluntarily assumed a duty to protect against attack from another person's dog); see also
7 *Harry v. Smith*, 893 P.2d 372, 375 (Nev. 1995) (noting that under *Wright*, a defendant has a "duty to
8 protect third parties from dog bites" if the defendant "takes affirmative steps to assume a duty");
9 *Nev. Nat. Bank v. Gold Star Meat Co., Inc.*, 514 P.2d 651, 653-54 (Nev. 1973) (finding that bank
10 employee under no duty to divulge credit disclosure information was required to exercise due care
11 once he voluntarily disclosed such information). Again, Defendant breached these duties causing
12 Microsoft and its consumers harm.

13 Last, Defendant Vitalwerks owed a duty of care to Microsoft and its customers that arose
14 from its contractual relationships with the registry operators and ICANN. A contract can impose a
15 duty of care, a breach of which could give rise to a claim for negligence. *Sharp Plumbing, Inc. v.*
16 *Nat'l Fire & Marine Ins. Co.*, 2013 WL 6858895, at *9 (D. Nev. Dec. 27, 2013) (quoting *Calloway*
17 *v. City of Reno*, 993 P.2d 1259, 1263 (Nev. 2000) ("In Nevada, '[a] breach of contract may be said to
18 be a material failure of performance of a duty arising under or imposed by agreement.'")). To
19 become an accredited registrar, Defendant Vitalwerks entered into agreements with ICANN and the
20 registry operators that impose obligations on Defendant as the registrar and the registered name
21 holder of the No-IP domains. (Haimovici Decl. ¶¶ 13-20.) Defendant Vitalwerks has contractual
22 duties that require it to investigate and stop computer abuse that is being perpetuated through its
23 services. Vitalwerks is bound by the registry-registrar agreements which prohibit abuse and require
24 that registrants not use domains in an illegal manner. (*Id.* ¶¶ 21-30.)

25 Moreover, Defendant Vitalwerks, as an accredited ICANN registrar, has a duty to conduct its
26 Internet business in such a manner that promotes accountability and discourages criminal activities,
27 and it has breached this duty in several ways. (Haimovici Decl. ¶¶ 13-20.) Contrary to these
28 agreements, Defendant Vitalwerks' failure to exercise due care enables the illegal conduct at issue in

1 this case. It provides the necessary infrastructure to direct malware-infected personal computers to
2 the particular sub-domain through which the Malware Defendants control the malware infected
3 computer. (Lyons Decl. ¶ 20; Anselmi ¶¶ 9-18.) Despite being on notice that its services are being
4 abused, Defendant has failed to take sufficient corrective action. Similarly, the Malware Defendants
5 by distributing malware and infecting user computers breached its obligations under No-IP's Terms
6 of Service. (*See* Haimovici Decl. ¶¶ 6-8.)

7 **II. Irreparable Harm Will Result Unless A TRO And Preliminary Injunction Are Granted**

8 Microsoft is the provider of the Windows operating system and a variety of other software
9 and services. (Lyons Decl. ¶ 4.) Microsoft has invested substantial resources in developing high-
10 quality products and services. (*Id.*) Due to the high quality and effectiveness of Microsoft's
11 products and services and the expenditure of significant resources by Microsoft to market those
12 products and services, Microsoft has generated substantial goodwill with its customers, has
13 established a strong brand, has developed the Microsoft name and the names of its products and
14 services into strong and famous world-wide symbols that are well-recognized within its channels of
15 trade. (*Id.*) Microsoft has registered trademarks representing the quality of its products and services
16 and its brand, including the Windows marks. (*Id.*)

17 Defendants' activities injure Microsoft and its reputation, brand, and goodwill because
18 customers subject to the negative effects of the malware incorrectly believe that Microsoft or
19 Windows is the source of their computer problems. (*Id.* ¶ 22.) Additionally, Microsoft devotes
20 significant computing and human resources to combating Bladabindi and Jenxcus malware
21 infections and helping customers determine whether or not their computers are infected, and if so,
22 cleaning them. (*Id.* ¶ 23.) Customers' frustration with having to deal with malware infections on
23 their computers diminishes their regard for Windows and Microsoft, and tarnishes Microsoft's
24 reputation and goodwill. There is also a serious risk that customers may move from Microsoft's
25 products and services because of such activities. And, there are significant challenges to having
26 such customers return, given the cost they bear to switch to new products and perceived risks.

27 This type of brand-related injury and customer harm is most certainly irreparable and is
28 precisely why the relief requested in this motion should be granted. *See Stuhlberg Intern. Sales Co.,*

1 *Inc. v. John D. Brush and Co., Inc.*, 240 F.3d 832, 841 (9th Cir. 2001) (“Evidence of threatened loss
2 of prospective customers or goodwill certainly supports a finding of the possibility of irreparable
3 harm.” (citing *Tom Doherty Assocs., Inc. v. Saban Entm’t, Inc.*, 60 F.2d 27, 37-38 (2d Cir. 1995) (“in
4 trademark licensing case, deprivation of opportunity to expand business is irreparable harm”));
5 *Multi-Channel TV Cable Co. v. Charlottesville Quality Cable Operating Co.*, 22 F.3d 546, 552 (4th
6 Cir. 1994) (“when the failing to grant preliminary relief creates the possibility of permanent loss of
7 customers to a competitor or the loss of goodwill, the irreparable injury prong is satisfied . . .”).

8 Once infected, a person’s computer is under the Malware Defendant’s control. The
9 Defendants can use the victim’s computer for any number of malicious purposes, such as stealing
10 personal information stored on the system, sending bulk, unsolicited “spam” emails, delivering
11 malicious software to infect other computers or otherwise using it to carryout fraud, computer
12 intrusions or other malicious and illegal conduct. (Tan Seng Decl. ¶¶ 8, 21-22.) With the malware
13 dashboard, Defendants are able to execute many commands on users’ computers that can steal
14 sensitive information and invade the users’ privacy. (*Id.*) For example, they can steal users’
15 banking credentials, such as online user names, passwords, and account numbers. When a user
16 conducts transactions online, the Defendant can monitor the user’s keystrokes and capture home
17 addresses, work addresses, telephone numbers, credit card information, and social security numbers.
18 The Malware Defendants can see in real time users’ computer displays and can also remotely turn on
19 the users’ video cameras or microphones without their knowledge, which is violative of many states’
20 privacy and wiretapping laws. The information Defendants collect can be sold or traded to other
21 wrongdoers and can even be used for blackmail. Consumers suffer not only economic harm as a
22 result of Malware Defendants’ actions but non-economic losses as well, such as emotional distress,
23 from identity theft and intrusions upon privacy.

24 Additionally, users computers’ performance may suffer due to the repeated copying of files,
25 data transfer and connections to the Internet that the malware causes the person’s computer to
26 undertake without permission. And because customers are often unaware of the infection, they
27 unknowingly allow their computers to be misused indefinitely. This is particularly true for the
28 malware at issue here given its ability to conceal and protect itself and because there are numerous

1 iterations of it supported by No-IP's sub-domains. (*See id.* ¶ 24.) In such circumstances, technical
2 attempts to remedy the problem may be insufficient and the injury caused to customers will
3 continue. (*Id.*) The injury caused by Bladabindi and Jenxcus malware and No-IP extends far
4 beyond Microsoft to other consumers and providers, into Internet infrastructure and ultimately to the
5 majority of computer users worldwide, placing each at increased risk.

6 Continued operation and spread of the Bladabindi/Jenxcus malware irreparably harms
7 Microsoft, its customers, and the public. No monetary remedy could repair the harm to Microsoft or
8 its customers if Bladabindi/Jenxcus botnets are permitted to continue operating and spreading.
9 Federal courts in civil cases addressing the unabated spread and harm of malware and botnets have
10 concluded that the "immediate and irreparable harm" to consumers from such activities warranted an
11 *ex parte* TRO and preliminary injunction. *See* Haimovi Decl. at Exs. 29, 37, 41 and 43, *Microsoft*
12 *Corp. v. John Does 1-8*, *Microsoft Corp. v. John Does 1-39* and *Microsoft Corp. v. Piatti, Microsoft*
13 *Corp. v. John Does 1-11*, and *Microsoft v. John Does 1-27* (acknowledging the substantial
14 irreparable harm botnets cause Microsoft, its customers and Internet users generally). Microsoft and
15 the public face the same irreparable harm caused by Bladabindi/Jenxcus as was found in those cases.
16 Thus, entry of an *ex parte* TRO disabling the malware activity carried out through No-IP and an
17 Order to Show Cause why a preliminary injunction should not issue are warranted.

18 Further, if the requested relief is not granted, the Bladabindi/Jenxcus malware will continue
19 to spread and continue to infect the computers of Microsoft's customers. This injury is irreparable
20 because customers, for the most part, lack the technical knowledge, skills, and ability to remedy the
21 infection, if they are even able to detect the infection. In the absence of the requested relief,
22 Microsoft's customers would remain under constant threat of their computers being infected and
23 suffering the harmful effects of unauthorized intrusion into and abuse of their computers. Long term
24 injury of this type constitutes irreparable harm warranting the entry of the requested relief. *See*
25 *Arminius Schleifmittel GmbH v. Design Indus., Inc.*, 2007 WL 534573, at *6 (M.D.N.C. Feb. 15,
26 2007) (finding irreparable harm because defendant's action "will have significant and continuous
27 long-term effects").

28

1 **III. The Balance Of Hardships Tips Sharply In Microsoft's Favor**

2 Defendants will suffer no harm to any legitimate interest if an *ex parte* TRO and preliminary
3 injunction are issued. Cutting communications to No-IP sub-domains confirmed to be enabling
4 malware will prevent Malware Defendants from sending instructions or additional malware modules
5 to infected personal computers during that time and will preserve the evidence of the malwares'
6 operations and illegal activities. Defendant Vitalwerks will suffer no harm if a TRO and preliminary
7 injunction are issued because Defendant derives no known income from the operation of its free
8 Dynamic DNS service. If there is any legitimate activity carried out on the No-IP sub-domains, it
9 will be allowed to proceed under the terms of the proposed order with no disruption. (Anselmi Decl.
10 ¶¶ 19-28.) Thus, Defendants will suffer no harm through preservation of the *status quo* pending
11 adjudication of the issues in dispute. *See Allegra Network LLC v. Reeder*, 2009 WL 3734288, at *3
12 (E.D. Va. Nov. 4, 2009) (preliminary injunction issued where there was no evidence that the
13 defendants would suffer irreparable harm from not being able to carry out enjoined activities).

14 Similarly, there will be only negligible impact on the third-party domain registries that will
15 need to implement part of the proposed order. This limited assistance is necessary to ensure
16 effective implementation of the requested order and is authorized under the All-Writs Act, 28 U.S.C.
17 § 1651.

18 Conversely, if a TRO and preliminary injunction do not issue, Bladabindi/Jenxcus will
19 continue to inflict irreparable injury on Microsoft, its customers, and the public. As this malware
20 spreads and new users are infected each day, this dramatically increases the ability for illegal
21 conduct to occur, compounding the injury to Microsoft and the public.

22 **IV. The Public Interest Will Be Served By The Issuance Of A TRO And Preliminary**
23 **Injunction**

24 In understanding the beneficial impact a TRO and preliminary injunction will have on the
25 public, it is exceedingly important to recognize the degree to which the TRO and preliminary
26 injunction protects the public interest beyond Microsoft and its own customers. Every consumer,
27 company, governmental agency, or other entity with access to the Internet is at risk of being
28 irreparably injured by Bladabindi/Jenxcus supported by the No-IP sub-domains. There is an

1 overwhelming public interest in preserving the status quo and halting the growth of this malware
2 while Microsoft proceeds with its claims.

3 Another district court emphasized in a similar case “a strong public interest in granting
4 preliminary injunctive relief” and noted that “[t]his Court has an obligation to enjoin any alleged
5 computer hackers from continuing to attack and steal [plaintiff’s] proprietary information.”
6 *Physicians Interactive*, 2003 U.S. Dist. LEXIS 22868, at *30-31 (granting TRO and preliminary
7 injunction where defendant hacked into a computer and stole confidential information). In the
8 botnet context, district courts in recent years have concluded that “immediate and irreparable harm”
9 will result to the welfare of consumers from “botnet command-and-control servers” and the
10 malicious conduct carried out through botnets. (*See, e.g.*, Haimovici Decl., Exs. 29, 31-35, 37-39,
11 41-46.) Similarly, here a TRO and preliminary injunction will preserve and protect this important
12 public interest. No such protection will be afforded if preliminary relief is denied and, in that event,
13 the Defendants controlling the malware and botnets will be able to continue their activities with
14 impunity.

15 **V. Ex Parte Relief Is Necessary to Stop the Irreparable Harm to Microsoft And the Public**

16 Rule 65 of the Federal Rules of Civil Procedure permits an *ex parte* TRO where the moving
17 party sets forth facts that show an immediate and irreparable injury and why notice should not be
18 required. Fed. R. Civ. P. 65(b)(1); *see Granny Goose Foods, Inc. v. Teamsters*, 415 U.S. 423, 438-
19 39 (1974) (“*Ex parte* temporary restraining orders are no doubt necessary in certain circumstances . .
20 . . .”); *Hoechst Diafoil Co. v. Nan Ya Plastics Corp.*, 174 F.3d 411, 422 (4th Cir. 1999) (“temporary
21 restraining orders may be issued without full notice, even, under certain circumstances, *ex parte* . . .
22 .”). In this District Court, Local Rule requires that the application or motion “contain a statement
23 showing good cause why the matter was submitted to the Court without notice to all parties.” L.R.
24 7.5(b). Without a TRO granting the relief requested, the injury to Microsoft and the public,
25 including Microsoft’s customers, will continue unabated, irreparably harming Microsoft’s
26 reputation, brand and goodwill. In order for the TRO to be effective at all, it must issue *ex parte*.
27 Here, the extraordinary factual circumstances warrant such relief.

28

1 A. **If Notice is Given, the Malware Defendants Will Disappear and Change Their**
2 **Online Identities, Rendering Microsoft’s Efforts to Stop Their Conduct Fruitless**

3 Good cause exists to justify this *ex parte* application and the relief requested. Microsoft
4 seeks this TRO to put a stop to the harm caused by the Bladabindi/Jenxcus malware and requests an
5 order that will allow it to block traffic between infected computers and malicious sub-domains
6 controlled by No-IP, through which the Malware Defendants communicate with the infected
7 computers. Microsoft has been unable through diligent investigation to pinpoint the exact locations
8 of the Malware Defendants and for other bad actors responsible for the harm alleged in the
9 Complaint, Microsoft is unaware of their true identities. However, these Defendants have a
10 significant online presence and conduct their illegal activities by virtual means. Given the transient
11 nature of the Internet and cybercriminals’ ability to thwart detection, advanced notice to these
12 Defendants of the TRO would provide them an opportunity to essentially vanish into thin air and
13 restart their criminal activities under different online aliases, using differing computers, servers, and
14 other infrastructure. (Lyons Decl. ¶ 24.)

15 Defendants are also likely to take steps to destroy information relating the malware
16 distribution and botnet scheme. Infected computers may be reprogrammed to contact command-
17 and-control computers at different IP addresses and through different sub-domains, enabling
18 Malware Defendants to continue controlling the infected computers without disruption. (*Id.*) If the
19 command-and-control computers are moved, Microsoft’s investigation into Defendants’ illegal
20 activities would have to be restarted. Thus, notice before issuance of the TRO relief would permit
21 the Malware Defendant to continue their harmful activity and would render Microsoft’s efforts to
22 investigate and combat this type of abuse moot.

23 It is well-established that *ex parte* relief is appropriate under circumstances such as the
24 instant case, where notice would render the requested relief “fruitless.” *See, e.g., In the Matter of*
25 *Vuitton Et Fils S.A.*, 606 F.2d 1, 4 (2d Cir. 1979) (*per curiam*) (holding that notice prior to issuing
26 TRO was not necessary where notice would “serve only to render fruitless further prosecution of the
27 action”; prior experience taught that once one member of the counterfeiting enterprise received
28 notice, contraband would be transferred to another unknown counterfeiter, perpetuating the harm and

1 rendering judicial efforts pointless); *AllscriptsMisys, LLC v. Am. Digital Networks, LLC*, 2010 U.S.
2 Dist. LEXIS 4450, at *2 (D. Md. Jan. 20, 2010) (granting an *ex parte* TRO where “Defendant may
3 dissipate the funds and/or take action to render it difficult to recover funds . . .”).⁷

4 Here, the danger imposed by advanced notice is real and not vague or speculative. There is
5 specific evidence that botnet operators have attempted to evade prior enforcement attempts where
6 they had notice, by moving for example their command-and-control servers. Particularly instructive
7 here is *Microsoft Corp. v. John Does 1-27*, where, in February 2010, the Eastern District of Virginia
8 issued an *ex parte* TRO and supplemental *ex parte* TRO suspending 276 Internet domains used to
9 control a malicious botnet. (See Haimovici Decl., Ex. 43, *Microsoft Corp.*, No. 1:10-cv-156 (E.D.
10 Va. Feb. 22, 2010) (order granting TRO)). In issuing the *ex parte* TRO, the court acknowledged
11 that:

12 There is good cause to believe that immediate and irreparable damage to this Court’s
13 ability to grant effective final relief will result from the sale, transfer, or other
14 disposition or concealment by Defendants of the domains at issue in Microsoft’s TRO
15 Motion and other discovery evidence of Defendants’ misconduct available through
16 such domains if the Defendants receive advance notice of this action . . .

16 (*Id.* at ¶ 4.)

17 Additionally, in *FTC v. Pricewert LLC*, the Northern District of California issued an *ex parte*
18 TRO suspending Internet connectivity of a company enabling botnet activity and other illegal
19 computer-related conduct on the basis that “Defendant is likely to relocate the harmful and malicious
20 code it hosts and/or warn its criminal clientele of this action if informed of the [plaintiff’s] action.”
21 (See Haimovici Decl. Ex. 45, *FTC v. Pricewert LLC*, Case No. 09-2407, at 3 (N.D. Cal. 2009)
22 (Whyte, J.)). Moreover, the court in *Dell, Inc. v. BelgiumDomains, LLC*, 2007 WL 6862341, *1-2
23 (S.D. Fla. Nov. 21, 2007), issued an *ex parte* TRO against domain registrants where persons
24 similarly situated had previously concealed such conduct and disregarded court orders by using
25 fictitious business, personal names, and shell entities to hide their activities. *Id.* at *2. In *Dell*, the
26

27 ⁷ *Crosby v. Petromed, Inc.*, 2009 WL 2432322, at *2 (E.D. Wash. Aug. 6, 2009) (granting *ex parte*
28 TRO as “notice to Defendants of this TRO request could result in further injury or damage to
Plaintiffs . . .”).

1 court explicitly found that where, as here, defendants' scheme is "in electronic form and subject to
 2 quick, easy, untraceable destruction by Defendants," *ex parte* relief is particularly warranted. *Id.* at
 3 *2.

4 **B. If Notice is Given, Evidence Regarding the Malware Will be Destroyed,**
 5 **Disturbing the Status Quo**

6 If notice is given in advance of a TRO, evidence of the Bladabindi/Jenxcus malware
 7 distribution may be destroyed. In particular, upon notice, account information pertaining to
 8 Malware Defendants operating the No-IP sub-domains associated with the malware may be
 9 destroyed. (*See* Lyons Decl. ¶ 24.) Further, if the malware operators attempt to reprogram the
 10 infected personal computers to communicate with domains which are not No-IP sub-domains,
 11 additional evidence will be lost, such as the identity of infected user computers and other aspects of
 12 the system necessary to this litigation. (*Id.*) Under such circumstances, courts have issued *ex parte*
 13 TROs. *See AT&T Broadband v. Tech Commc'ns, Inc.*, 381 F.3d 1309, 1319-1320 (11th Cir. 2004)
 14 (affirming *ex parte* search and seizure order to seize contraband technical equipment, given evidence
 15 that in the past defendants and persons similarly situated had secreted evidence once notice given);
 16 *Dell, Inc.*, 2007 WL 6862341, at *1-2; *Little Tor Auto Center v. Exxon Co., U.S.A.*, 822 F. Supp.
 17 141, 143 (S.D.N.Y. 1993) (*ex parte* TRO appropriate where contraband "may be destroyed as soon
 18 as notice is given"). For this reason, the requested *ex parte* TRO is warranted.

19 **VI. Microsoft Will Make Extraordinary Efforts To Provide Notice Of The TRO And The**
 20 **Preliminary Injunction Hearing And To Serve The Complaint**

21 To ensure Due Process, immediately upon entry of the requested *ex parte* TRO, Microsoft
 22 will undertake extraordinary efforts to effect formal and informal notice of the preliminary
 23 injunction hearing to the Defendants and to serve the complaint as follows.

24 **C. Microsoft Will Provide Notice to Defendant Vitalwerks by Personal Service**

25 Defendant Vitalwerks is a limited liability company that operates from a physical address in
 26 Reno, Nevada. (Haimovici Decl. ¶ 2.) Pursuant to Rule 4(h)(1)(A), a defendant corporation,
 27 partnership, or other unincorporated association must be served "in the manner prescribed by Rule
 28 4(e)(1) for serving an individual." Under Rule 4(e)(1), service is effected under the laws of the state

1 in which the district court is situated or where service is made. Nevada law permits service on any
2 member of a “member-managed limited liability company.” Nev. R. Civ. Pro. 4(d)(1)(iv).

3 Defendant Vitalwerks is a member-managed limited liability company, and Daniel Durrer is
4 a managing member of the company and also its registered agent. (Haimovici Decl. ¶ 2.) Microsoft
5 plans to effect formal service of the notice of the preliminary injunction hearing by personal delivery
6 of the summons, complaint, and instant motion and supporting documents, and any order issued by
7 this Court to Daniel Durrer at Defendant Vitalwerks’ Reno address. (*Id.* ¶ 35.)

8 **D. Microsoft Will Provide Notice to Defendants Mutairi and Benabdellah by E-**
9 **mail, Skype, Facebook, and Publication**

10 After conducting a thorough and diligent investigation, Microsoft has been unable to locate
11 postal addresses for Defendants Mutairi and Benabdellah.⁸ (Haimovici Decl. ¶ 36.) Microsoft has
12 identified e-mail addresses, Skype, and Facebook accounts for these Defendants. (*Id.*, *see also* Tan
13 Seng Decl. ¶¶ 30-33.) Microsoft will provide notice of the preliminary injunction hearing by
14 immediately sending the same pleadings described above to Defendants by email, Skype, and
15 Facebook, and Microsoft will publish the notice and pleadings on a centrally located, publically
16 accessible source on the Internet for a period of 6 months. (Haimovici Decl. ¶¶ 39-41.)

17 Legal notice and service by e-mail, social media websites, and publication satisfies Due
18 Process as these means are reasonably calculated, in light of the circumstances, to apprise the
19 interested parties of the TRO, the preliminary injunction hearing, and the lawsuit. *See Mullane v.*
20 *Central Hanover Bank & Trust Co.*, 339 U.S. 306, 314 (1950). Methods other than mail notice and
21 service are \authorized under Federal Rule of Civil Procedure 4(f)(3), which allows a party to serve
22 defendants by means not prohibited by international agreement. The methods of notice and service
23 proposed by Microsoft have been approved in other cases involving international defendants
24 attempting to evade authorities. *See, e.g., Rio Properties, Inc. v. Rio Int’l Interlink*, 284 F.3d 1007,
25 1014-15 (9th Cir. 2002) (authorizing service by e-mail upon an international defendant); Haimovici
26 Decl., Ex. 47, *FTC v. PCCare247, Inc.*, No. 1:12-Civ-7189, at 8-9 (S.D.N.Y. Mar. 7, 2013) at 8-9

27
28 ⁸ Because Microsoft does not have postal addresses for these Defendants, the Hague Convention on
service or process does not apply. (Haimovici Decl. ¶ 38.)

1 (order permitting service by Facebook as supplemental means to e-mail service); Haimovici Decl.,
 2 Ex. 35, *Microsoft Corp. v. Yong et al.*, No. 1:12-cv-1004, at 6-7 (E.D. Va. Sept. 10, 2012) (*ex parte*
 3 order giving Microsoft authority to serve foreign defendants by e-mail and publication); *Banana*
 4 *Ads*, 2012 WL 1038752, at *2 (granting Facebook’s motion to serve foreign cybersquatter
 5 defendants by e-mail); *AllscriptsMisys, LLC*, 2010 U.S. Dist. LEXIS 4450, at *3 (granting *ex parte*
 6 TRO and order prompting notice by telephone, e-mail, mail, or other delivery services); *Smith v.*
 7 *Islamic Emirate of Afghanistan*, 2001 WL 16582111, at *2-3 (S.D.N.Y. Dec. 26, 2001) (authorizing
 8 service by publication upon Osama bin Laden and the al-Qaeda organization).

9 The party seeking to serve a foreign defendant by alternative means pursuant to Rule 4(f)(3)
 10 must demonstrate that (1) the service is “‘reasonably calculated to provide actual notice’ to the
 11 defendant,” and (2) “‘international agreement does not prohibit such service.” *Banana Ads*, 2012 WL
 12 1038752, at * 1 (citing to *Rio Properties*, 284 F.3d at 1016). Here, both conditions are met.

13 **1) Service by e-mail, Skype, Facebook, and publication on the Internet is**
 14 **reasonably calculated to provide Defendants with actual notice**

15 First, Microsoft’s proposed methods of service are reasonably calculated to provide actual
 16 notice to Defendants Mutairi and Benabdellah given the circumstances of this case. Defendants
 17 Mutairi and Benabdellah have established online identities through which they publish and distribute
 18 malware. (Tan Seng Decl. ¶¶ 31-33.) These Defendants maintain active Twitter, Skype, and
 19 Facebook accounts, and Defendant Mutairi also maintains several blogs and a website and posts
 20 content to YouTube about the Bladabindi malware. (*Id.*; *see also id.* ¶ 25.) These Defendants rely
 21 on the Internet and electronic means of communication to further their criminal and malicious
 22 scheme, and e-mail, Facebook, and publication are the only methods by which Microsoft has to
 23 notify the Defendants, whose addresses are unknown, of the present lawsuit and any preliminary
 24 injunction hearing.

25 In cases such as this one where defendants regularly conduct business or other transactions
 26 through electronic means and service on a physical address is not possible, service by e-mail and
 27 publication is reasonably calculated to provide actual notice. *See Banana Ads*, 2012 WL 1038752, at
 28 *2; *Aevoe Corp. v. Pace*, 2011 WL 3904133, at *2 (N.D. Cal. Sept. 6, 2011) (service by e-mail and

1 publication appropriate when plaintiff could not serve cybersquatting defendants by personal or mail
2 service at several known addresses or by hiring a private investigator). And, as the Ninth Circuit has
3 observed, e-mail service is particularly warranted in cases involving Internet-based misconduct,
4 carried out by international defendants, causing immediate and irreparable harm:

5 [Defendant] had neither an office nor a door; it had only a computer terminal. If any
6 method of communication is reasonably calculated to provide [defendant] with notice,
7 surely it is email – the method of communication which [defendant] utilizes and
8 prefers. In addition, email was the only court-ordered method of service aimed directly
9 and instantly at [defendant] Indeed, when faced with an international e-business
10 scofflaw, playing hide-and-seek with the federal court, email may be the only means of
11 effecting service of process.

12 *Rio Properties*, 284 F.3d at 1018; *see also Williams-Sonoma, Inc. v. Friendfinder, Inc.*, 2007 WL
13 1140639, at *2 (N.D. Cal. Apr. 17, 2007) (service by e-mail consistent with Hague Convention and
14 warranted in case involving misuse of Internet technology by international defendants).

15 In this case, the e-mail addresses used by Defendant Mutairi and Benabdellah to conduct
16 their malicious activities are the most accurate and viable contact information and means of notice
17 and service. Moreover, Microsoft will supplement this form of service by also providing notice
18 through Facebook and by publication. Microsoft has located e-mail addresses and Facebook
19 accounts for these Defendants, and this contact information has been verified as belonging to the
20 individuals who created and distribute the malware at issue in this lawsuit. Service by Skype and
21 Facebook message and publication is warranted here as extra means to ensure actual notice to
22 Defendants. *See FTC v. PCCare247, Inc.*, No. 1:12-Civ-7189, at 8-9 (S.D.N.Y. Mar. 7, 2013) (order
23 finding that service by Facebook satisfies Due Process when used as a supplemental form of notice
24 and plaintiff set forth sufficient facts demonstrating that the Facebook accounts belong to
25 defendants), attached as Ex. 47 to Haimovici Decl.; *BP Products North America, Inc. v. Dagra*, 236
26 F.R.D. 270, 272-73 (E.D. Va. 2006) (discussing that publication on foreign defendant comports with
27 Due Process when traditional means of service are unavailable and publication is likely to reach
28 defendant).

1 **2) Service by e-mail, Skype, Facebook, and publication on the Internet is not**
2 **prohibited by international agreement**

3 Here, there is no international agreement between the United States and Defendants'
4 countries of residence that prohibits service by e-mail, Skype, Facebook, and publication. To start,
5 the United States and Kuwait are parties to the Hague Convention on Service Abroad of Judicial and
6 Extrajudicial Documents. (Haimovici Decl. ¶ 37.) However, nothing in the Hague Convention
7 expressly prohibits service by the alternative methods Microsoft is proposing pursuant to Rule
8 4(f)(3). *Banana Ads*, 2012 WL 1038752, at *2 (e-mail service not prohibited by Hague
9 Convention); *FTC v. PCCare247, Inc.*, No. 1:12-Civ-7189, at 8-9 (S.D.N.Y. Mar. 7, 2013) at 8-9
10 (Facebook service not prohibited by Hague Convention), Ex. 47 to Haimovici Decl.; *S.E.C. v.*
11 *Anticevic*, 2009 WL 361739, at *4 (S.D.N.Y. Feb. 13, 2009) (service by publication not prohibited
12 where countries did not expressly object to this type of service in their declarations pursuant to the
13 Hague Convention). Additionally, Kuwait did not object to these forms of service in their
14 declarations to the Convention. (*See* Haimovici Decl., Ex. 28.)

15 Similarly, there is no agreement between the United States and Algeria that prohibits service
16 by e-mail, Skype, Facebook, or publication. If the defendant's resident country does not have an
17 agreement in place expressly disavowing a particular type of service, then that service is permissible
18 under Rule 4(f)(3). *See Rio Properties*, 284 F.3d at 1014 (noting that alternative service is proper if
19 not prohibited by international agreement even if such service is "in contravention of the laws of the
20 foreign country"); *JBR, Inc. v. Cafe Don Paco, Inc.*, 2013 WL 1891386, at *5 (N.D. Cal. May 6,
21 2013) (finding that e-mail service against defendant was permissible because Nicaragua was not a
22 signatory to any agreement prohibiting this type of service); *see also* Jul. 26, 2010 Order in
23 *Craigslist, Inc. v. Meyer et al.*, Case No. C 09-4739 SI (N.D. Cal.) (finding no agreements between
24 U.S. and Thailand that would prohibit e-mail service), attached as Ex. 48 to Haimovici Decl.; *Bank*
25 *Julius Baer & Co. Ltd. v. Wikileaks*, 2008 WL 413737, at *1-2 (N.D. Cal. Feb. 13, 2008) (finding
26 that service through e-mail was not prohibited by international agreement); *Williams-Sonoma Inc.*,
27 2007 WL 1140639, at *2.

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E. Microsoft Will Provide Notice To Doe Defendants By Publication.

Microsoft is unaware of the identities of Doe Defendants 1 through 500. However, Microsoft will provide notice of the preliminary injunction hearing and a copy of the summons, complaint, TRO motion and supporting documents to these Defendants by publication and any other method ordered by this Court.

CONCLUSION

For the reasons stated above, Microsoft respectfully requests that this Honorable Court grant its motion for a TRO and order to show cause regarding a preliminary injunction. Microsoft further respectfully requests that the Court permit notice of the preliminary injunction hearing and service of the Complaint by alternative means.

Dated: June 19, 2014

Respectfully submitted,
SHOOK, HARDY & BACON, L.L.P.

/s/ Tony M. Diab

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