EXHIBIT 1

IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLUMBIA

MICROSOFT CORPORATION, a Washington corporation,)))
Plaintiff,)
v. JOHN DOES 1-2, CONTROLLING A COMPUTER NETWORK AND THEREBY INJURING PLAINTIFF AND ITS CUSTOMERS,) Civil Action No: 1:19-cv-00716-ABJ)))
Defendants.)))

DECLARATION OF DAVID ANSELMI IN SUPPORT OF MICROSOFT'S EX PARTE MOTION TO SUPPLEMENT PRELIMINARY INJUNCTION ORDER

- I, David Anselmi, declare as follows:
- 1. I am a Principal Investigator in the Digital Crimes Unit of Microsoft
 Corporation's Legal and Corporate Affairs Group. I make this declaration in support of
 Microsoft's Ex Parte Motion to Supplement Preliminary Injunction Order. I make this
 declaration of my own personal knowledge and, if called as a witness, I could and would testify
 competently to the truth of the matters set forth herein.
- 2. In my current role at Microsoft, I assess technical security threats to Microsoft and the impact of such threats on Microsoft's business and customers. Prior to my current role, I worked as Senior Technologist, dealing with security of Microsoft's online services. Among my responsibilities were protecting Microsoft's customer-facing online service assets from network-based attacks. Prior to that, while also employed by Microsoft, I worked as a Senior Technologist, dealing with protecting Microsoft's corporate resources from network-based attacks. Before joining Microsoft, I worked for Excell Data Corporation as a Program Manager

performing security firewall deployment, configuration, and administration. I am a graduate of the United States Military Academy, West Point, and served for 27 years as a United States Army Communications Electronics Officer (11 years active, 16 years reserve), attaining the rank of Lieutenant Colonel. I have been employed by Microsoft since February 1997.

I. OVERVIEW OF INVESTIGATION INTO PHOSPHORUS AND CONCLUSIONS

- 3. My declaration concerns an organization that is engaged in systematic criminal activity on the Internet. Because the identities of the individuals behind the activity addressed in this declaration are unknown, I therefore refer to them collectively by the codename that Microsoft has assigned to this group: "Phosphorus." Others in the security community who have researched this group of actors refer to the group by other names, including "APT 35," "Charming Kitten," and "Ajax Security Team." The defendants have been linked to an Iranian hacking group or groups. I have investigated the infrastructure described in this declaration and have determined that the defendants have registered Internet domains using fictitious names and fictitious physical addresses that are purportedly located in multiple cities and countries. Defendants have registered domains using functioning email addresses by which they communicated with domain registrars in order to complete the registration process.
- 4. Microsoft investigators have been monitoring and gathering information on the Phosphorus defendants. In the course of such investigation, I have been working with and directing a team that (1) engaged in the analysis and creation of "signatures" (which can be thought of as digital fingerprints) for the infrastructure used by the Phosphorus defendants, (2) discovered login activity into Microsoft services from Phosphorus-controlled infrastructure on the Internet, (3) matched reported Phosphorus phishing email campaigns to registered domains, (4) monitored domain registrations associated with the Phosphorus-controlled email addresses and other pertinent WHOIS record information, (5) monitored infrastructure frequently utilized by the Phosphorus defendants in order to identify new domains being registered by the Phosphorus defendants, (6) have confirmed resolution settings to particular Internet service

providers (ISPs) which have frequently been used by the Phosphorus defendants in the past, and (7) reviewed peer findings and public reporting on the Phosphorus defendants.

- 5. As alluded in paragraph 4 (1), the investigative team has developed methods to help us identify new domains registered by the Phosphorus actors. Particular features of the Phosphorus infrastructure have been identified and patterns of content, non-content, and technical features have been determined to be exclusively and specifically associated with the Phosphorus defendants. These features, when identified in the aggregate, provide a high level of confidence that a given domain is a Phosphorus domain. Each such domain is manually reviewed in detail by one or more subject matter experts as necessary to ascertain whether it is, in fact, a Phosphorus domain. Based on this analysis, we have identified characteristics of the registration and maintenance of certain domains which, when coupled with the nature of the activities observed being carried out through the domains, are a reliable method to correlate such domains to actions undertaken by the defendants.
- 6. Based on our investigation and analysis, Microsoft has determined that the Phosphorus defendants specialize in targeting and stealing credentials of prominent users of the Internet. The Phosphorus defendants target Microsoft and non-Microsoft customers in both the private and public sectors, including businesses in a variety of different industries. Based on our research, the Phosphorus defendants have targeted Microsoft customers, political dissidents, activist leaders, the Defense Industrial Base (DIB), journalists, and employees from multiple government agencies, including individuals protesting oppressive regimes in the Middle East.
- 7. The Phosphorus defendants' objectives appear to be obtaining account credentials to later retrieve sensitive communications within the accounts. We believe that the Phosphorus defendants have been active since 2013 and continue to pose a threat today and into the future.

II. PHOSPHORUS' METHOD OF COMPROMISING AND STEALING INFORMATION FROM VICTIMS

8. The Phosphorus defendants typically attempt to compromise the personal (not work) accounts of the targeted individuals through a technique known as "spear phishing."

Spear phishing attacks are conducted in the following fashion: after researching a victim organization, the spear phisher will identify individuals associated with that organization through gathering publicly available information and by social engineering. The spear phisher will then initiate communications with the victim by using names, companies, and/or contents that are familiar to the victim. The ensuing communications exchanges are used to social engineer information, identify additional targets, entice a target into opening up a malicious attachment, and more. Microsoft has observed fake social networking profiles being created by Phosphorus defendants which would obviously present significant leverage in carrying out such an attack.

- 9. Another technique utilized by the Phosphorus defendants is to send a targeted individual an email specifically crafted to appear as if there is an issue with the targeted individual's account. Phishing emails often use generic domain names that appear to be tied to account activity and that require input of credentials for authentication. For example, domains such as service-accountrecovery.com. The Phosphorus defendants send the targeted individual an email citing an account problem as mentioned above, and which instructs the recipient to proceed to a (fake) website where they should login to remedy the situation. Through research and investigation:
- a. Microsoft has determined that the Phosphorous defendants have used domains cited in **Exhibit 1** to this declaration (also attached as **Appendix A** to the Proposed Order). Sometimes, the Phosphorus defendants have created domains including Microsoft (or other) product names. At other times, as is presently the case, the defendants disguise their command and control domains by using terms that make them appears to be related to online services. In the domains at **Exhibit 1**, the Phosphorus defendants have incorporated terms such as "mail" or account "login" and "supports" and similar terms. The purpose of these formulations is to create the appearance of legitimate online services and to ultimately present content on the pages that mimic login pages that infringe Microsoft trademarks, such as Microsoft's "Outlook" or "Office 365" services and brands, or other confusing content.
 - b. Since the Preliminary Injunction Order and subsequent Supplemental

Injunction Order, Microsoft has identified an additional six domains that the Phosphorous defendants have registered that follow the same patterns and are no doubt intended to be leveraged in phishing attacks. These domains are listed in **Exhibit 1** and are also reflected in **Appendix A** to the Proposed Order.

- 10. The Phosphorus defendants create these domains with the purpose of ultimately including on the websites content that infringes Microsoft or other trademarks and with the purpose of confusing victims into clicking on links controlled by the Phosphorus defendants. When the user clicks on the links, they are taken to deceptive web pages that induce the victim to type in their Microsoft or other credentials, at which point the Phosphorus defendants obtain access to those credentials. This will result in the threat actors being able to log into the victim's account and gain access to whatever content is available on the legitimate service, which may include their email, address information, phone numbers, billing information, etc. Where available, the Phosphorus defendants can also download a copy of the victim's address book to be used for future targeting of additional intended victims. Not having safe emails impacts Microsoft's brands and services. Having personal information stolen by attackers impacts a customer's trust in the services being provided. Customers expect Microsoft to provide safe and trustworthy products and services. There is a great risk that Microsoft's customers, both individuals and the enterprises for which they work, may incorrectly attribute these problems to Microsoft's products and services, thereby diluting and tarnishing the value of these trademarks and brands.
- 11. The Phosphorus defendants send these emails from a variety of online email services. As discussed above, there are domains created by the Phosphorus defendants with the ultimate goal of mimicking Microsoft brands, and those domains are clearly designed to be included in spear phishing emails as links to websites that the Phosphorus defendants have set up in advance and which they control. When a victim clicks on the link in the email, his or her computer is connected with the Phosphorus-controlled website. The victim is then presented a copy of a webpage that appears to be a login page for a webmail provider of which the victim is

a subscriber. In fact, this is a fake login page that is designed to induce the user to type in their webmail credentials. If the victim enters the correct credentials, at that point the Phosphorus actors obtain the user's credentials and can thereafter access the user's webmail account to steal email content and other information.

12. **Figures 1 and 2** below show copies of such webpages created by the Phosphorus defendants, designed to look like legitimate Microsoft Outlook login pages:

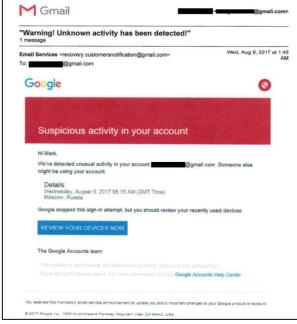
Securit	y (show explanation)
	This is a public or shared computer This is a private computer
Г	Use the light version of Outlook Web App
Userna	arne:
Passwo	rd:
	Sign in

Figure 1



Figure 2

13. Phosphorus targets other brands beyond Microsoft and purport to be password reset or account login pages of other companies. For example, the Phosphorus defendants use fake emails instructing users to click links and type in credentials, fake "Verify" buttons prompting users to type their credentials into fraudulent login pages and fake "Sign in" pages instructing users to enter their user name and password. All of these methods are designed to induce users to type in credentials. As seen above with respect to the fake Microsoft login pages inviting users to type in their Microsoft Outlook "User name" and "Password," this scheme is typical of the Phosphorus defendants' activities. **Figures 3** through **4** are further examples of this tactic:



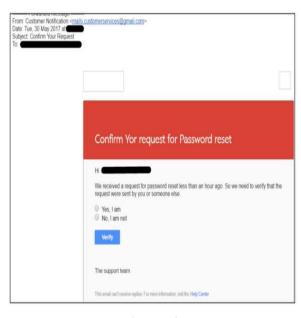


Figure 3

Figure 4

14. Defendants continue to target Microsoft and its users with new content. **Figures** 5 and 6 are two recent examples of Defendants' efforts to prompt users to type their credentials into fraudulent login pages:

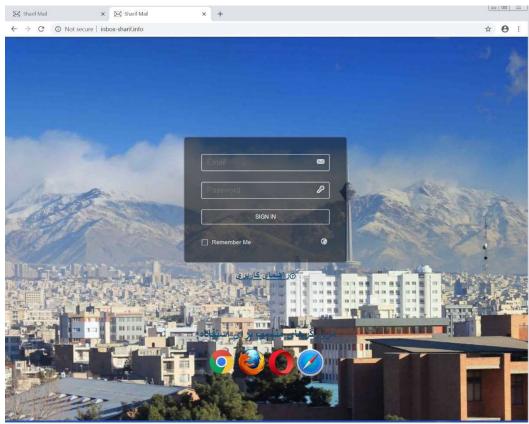


Figure 5

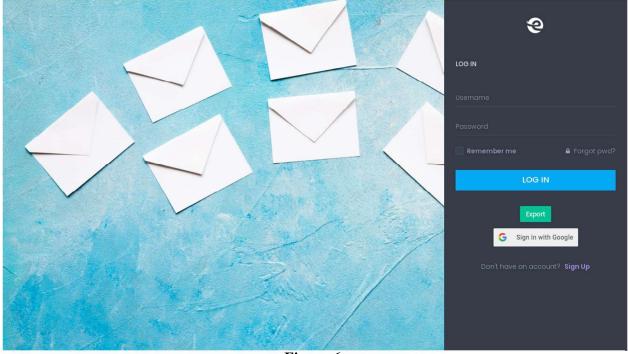


Figure 6

- 15. Upon successful compromise of a victim account, the Phosphorus defendants will not only be able to log into the account and review the victim's emails, but may also delete the spear phishing email that they previously sent to the user in an attempt to obfuscate their activities.
- 16. The Phosphorus defendants have targeted victims who are using Microsoft email services, and Microsoft investigators, by inspecting login history, have confirmed that Phosphorus defendants have intruded into those accounts potentially to steal information of Microsoft's users. **Figures 1 and 2** above demonstrate the Phosphorus defendants targeting users of Microsoft's Outlook email services.
- 17. Microsoft investigators were also able to locate the control panel used by the Phosphorus defendants to create links sent to intended victims as well as to track successfully compromised victims who clicked on those links, typed in their credentials and had those credentials stolen by the defendants. Microsoft analysts identified the Phosphorus domain confirm-session-identification.info which led to discovery of the control panel URL. This control panel was accessed by a URL that was open and required no authentication. The control panel that the Phosphorus defendants used to monitor and control their access to victim accounts was present on the domain: confirm-session-identification.info. The domain confirm-session-identification.info was registered on 10/17/2018 as seen in the WHOIS record from a commonly used domain research tool called Domaintools.com. This record is reflected in Figure 7:

```
Domain Name: CONFIRM-SESSION-IDENTIFICATION.INFO
Registry Domain ID: D503300000240279653-LRMS
Registrar WHOIS Server
Registrar URL: https://www.onlinenic.com
Updated Date:
Creation Date: 2018-10-17T11:27:087
Registry Expiry Date: 2019-10-17T11:27:08Z
Registrar Registration Expiration Date:
Registrar: OnlineNIC, Inc.
Registrar IANA ID: 82
Registrar Abuse Contact Email:
Registrar Abuse Contact Phone:
Domain Status: serverTransferProhibited https://icann.org/epp#serverTransferProhibited
Domain Status: addPeriod https://icann.org/epp#addPeriod
Registrant Organization: Domain ID Shield Service CO., Limited
Registrant State/Province: Hong Kong
Registrant Country: CN
Name Server: NS1.DNS-DIY.NET
Name Server: NS2.DNS-DIY.NET
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form is https://www.icann.org/wicf/
The Registrar of Record identified in this output may have an RDDS service that can be queried for addit
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18. The domain <u>confirm-session-identification.info</u> resolved to IP address 190.2.154.35 (Netherlands) from October 18th – 20th, 2018 and then moved to IP address 104.27.134.98 (US). The control panel below was obtained from the confirm-session-identification.info domain, when hosted on 104.27.134.98, on 11/04/2018. When visiting the URL http:// confirm-session-identification.info/recovery/ on 11/04/2018 the control panel did not require authentication to view its contents. Upon visiting this URL on 11/04/2018, we confirmed that the Phosphorus defendants use a unique ID (URL) for each targeted user. A redacted list of the users targeted can be seen in the email column in **Figure 8** below.

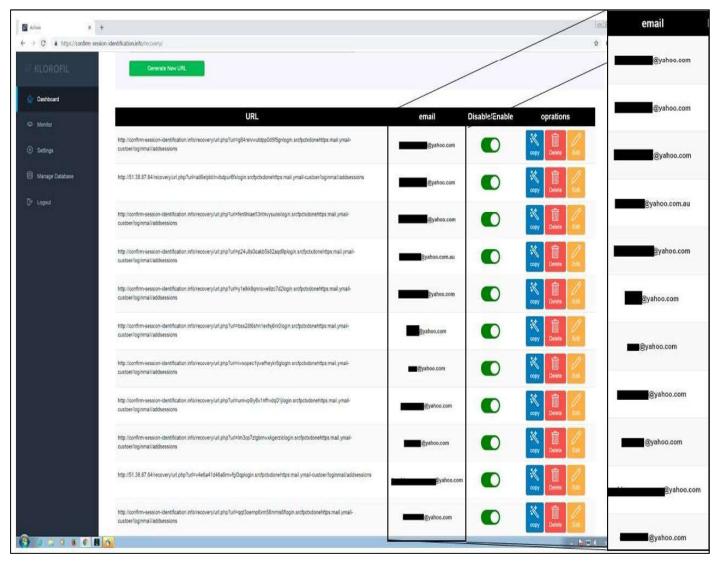


Figure 8

19. The Phosphorus defendants' email panel has a "Monitor" screen for tracking compromised users. As seen in the screenshot below (**Figure 9**), there is at least one victim observed at the time of accessing the unauthenticated email panel:

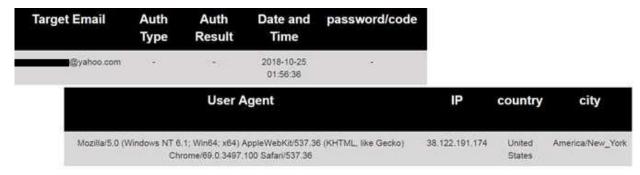


Figure 9

20. Additionally, the settings tab (**Figure 10**) shows that when users' credentials are compromised, the credentials stolen from Microsoft users and others are emailed to the Yahoo account soup_mctavish@yahoo.com with the subject line "Yahoo-Pishing." Note here that the Phosphorus defendants misspelled "Phishing."

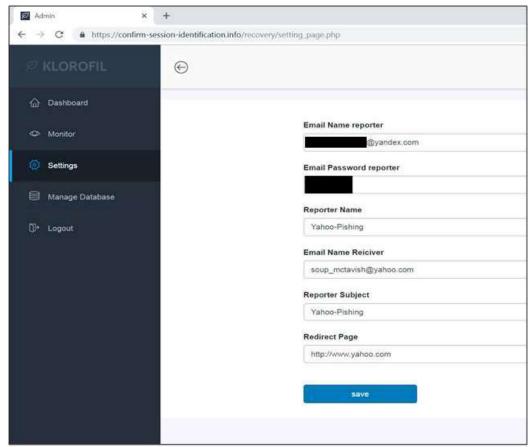


Figure 10

- 21. The Phosphorus defendants also intrude upon and cause injury to Microsoft and Microsoft's customers by damaging the customers' computers and the software installed on their computers. In particular, the Phosphorus defendants have sent deceptive email messages to victims, such as those discussed above, which include links to websites from which the defendants install malicious software onto the victims' computers. The defendants refer to the malicious software as "Stealer." Stealer, once installed, can record what the victim types on their keyboard, take screenshots of what is on the victim's computer screen, steal login credentials for instant messaging account (including information about victims' Microsoft-owned "Skype" messaging accounts), email accounts, and other credentials. The Stealer software is installed from, and stolen information may be transferred to, defendants using command and control domains such as those reflected in **Exhibit 1**.
- 22. The installation of this malicious software damages the victim's computer and the Windows operating system on the victim's computer. During the infection of a victim's computer, the malicious Stealer software makes changes at the deepest and most sensitive levels of the computer's Windows operating system. The consequences of these changes are that the user's version of Windows is essentially adulterated, and unknown to the user, has been converted into a tool to steal credentials and sensitive information from the user. This inherently involves abuse of Microsoft's trademarks and brands, and deceives users by presenting an unauthorized, modified version of Windows to those users. For example, the defendants create registry key paths bearing the Microsoft "Windows" trademark, within the Microsoft operating system, including, among others:

"C:\WINDOWS\system32\rundll32.exe" "C:\ Documents and Settings\{USER}\ApplicationData\IntelRapidStart\AppTransferWiz.dll",#110

23. Further, as seen in **Figure 11** below, the Phosphorus defendants include metadata within the Stealer malicious software that expressly misrepresents that the software is created by "Microsoft" and that the software is a "Process for Windows."



Figure 11

III. PHOSPHORUS HAS ATTACKED MANY MICROSOFT CUSTOMERS IN THE DISTRICT OF COLUMBIA AND AROUND THE WORLD

24. Through its investigation, Microsoft has determined that the Phosphorus defendants have targeted Microsoft customers in the District of Columbia and continue to target our customers throughout the United States on multiple occasions.

IV. HARM TO MICROSOFT AND MICROSOFT CUSTOMERS

- 25. Phosphorus irreparably harms Microsoft by damaging its reputation, brands, and customer goodwill. Microsoft is the provider of the Windows operating system and Outlook, Hotmail, OneDrive and Office 365 email and cloud services, as well as a variety of other software and services. Microsoft is the owner of the "Microsoft," "Windows," "Outlook," "Windows Live," "Hotmail," "OneDrive" and "Office 365" trademarks. Microsoft has invested substantial resources in developing high-quality products and services. Microsoft has also invested, through its subsidiaries, in high value brands and services such as the "LinkedIn" brand and service. Due to the high quality and effectiveness of Microsoft's products and services and the expenditure of significant resources by Microsoft to market those products and services, Microsoft has generated substantial goodwill with its customers, has established a strong brand, and has developed the Microsoft name and the names of its products and services into strong and famous world-wide symbols that are well-recognized within its channels of trade. Microsoft has registered trademarks representing the quality of its products and service and its brand, including the trademarks listed above.
- 26. Microsoft's customers whose email accounts are compromised through the defendants' credential theft are damaged by these activities. Similarly, Microsoft's customers whose computers are infected with the malicious Stealer software are damaged by changes to Windows, which alter the normal and approved settings and functions of the user's operating system, destabilize it, and enable unauthorized monitoring of the user and theft of user data.
- 27. In effect, once infected, altered and controlled by the Stealer software, the Windows operating system ceases to operate normally and is now a tool of deception and theft aimed at the owner of the infected computer. Yet they still bear the Microsoft Windows trademark. This is obviously meant to mislead Microsoft's customers, and it causes extreme damage to Microsoft's brands and trademarks.
- 28. Customers are usually unaware of the fact that their email accounts are compromised, that their computers are infected, that they are being monitored by the defendants

or that sensitive information is being stolen from them. Even if aware of an account intrusion or an infection of their computer, users often lack the technical resources or skills to resolve the problem, allowing their accounts and computers to be misused indefinitely, as manual steps to change account credentials or remove the malicious software may be difficult for ordinary users. They may be futile to a degree too where the Phosphorus defendants have software installed to observe the victim's activities and attempts to remediate the intrusion. Even with professional assistance, cleaning an infected end-user computer can be exceedingly difficult, time-consuming, and frustrating. This demonstrates the extreme problems that the activities of the Phosphorus defendants cause for Microsoft's customers and the irreparable injury to both Microsoft and its customers. Microsoft and other members of the public must invest considerable time and resources investigating and remediating the defendants' intrusion into accounts and computers.

29. The activities of the Phosphorus defendants injure Microsoft and its reputation, brand, and goodwill. Users subject to the negative effects of the Phosphorus defendants' spear phishing emails sometimes incorrectly believe that Microsoft is the source of the problem, and thus there is a significant risk that Microsoft customers will be confused in this way in the future. There is a great risk that Microsoft customers may incorrectly attribute these problems to Microsoft and associate these problems with Microsoft's products and services, thereby diluting and tarnishing the value of these trademarks and brands.

V. <u>DISRUPTING PHOSPHORUS' ILLEGAL ACTIVITIES</u>

30. The Phosphorus defendants' illegal activities will not be easy to disrupt. Evidence indicates that the Phosphorus defendants are highly sophisticated, well-resourced, organized, and patient. The Phosphorus defendants specialize in targeting individuals in organizations holding sensitive data, by gathering extensive information about their employees through publicly available information and social media, using that information to fashion phishing attacks intended to trick those employees into compromising their credentials, and disguising its activities using the names and trademarks of Microsoft and other legitimate companies.

- 31. The most vulnerable point in the Phosphorus defendants' operations are a number of Internet domains through which the Phosphorus defendants obtain victim credentials, log into compromised accounts, and review sensitive information from victim accounts. A set of these is attached as Exhibit 1 to this Declaration. Although not the case in Exhibit 1, similar domains have incorporated trademarks owned by Microsoft. Where domains have incorporated other companies' trademarks, those companies have been informed of and have no objection to Microsoft's proposal to take possession of the domains. Granting Microsoft possession of these domains will enable Microsoft to channel all communications to those domains to secure servers, and thereby cut off the means by which the Phosphorus defendants collect victim credentials. In other words, any time a user clicks on a link in a spear phishing email and provides their username and password, that information will be prevented from going to the defendants at the Phosphorus domains, because those domains will be hosted on a Microsoft-controlled, secure server, beyond the control of defendants. While it is not possible to rule out the possibility that the Phosphorus defendants could use fall back mechanisms to evade the requested relief, redirecting this core subset of Phosphorus domains will directly disrupt current Phosphorus infrastructure, mitigating risk and injury to Microsoft and its customers. The requested relief will also serve the public interest, in protecting customers of other web services companies who have consented to the relief sought in this action.
- 32. I believe that the most effective way to suspend the injury caused to Microsoft, its consumers, and the public, is to take the steps described in the Second Supplemental Injunction Order ("Proposed Order"). This relief will significantly hinder the Phosphorus defendants' ability to compromise additional accounts and identify new potential victims to target. In the absence of such action, the Phosphorus defendants will be able to continue using this infrastructure to target new accounts, exposing potential new victims to the Phosphorus defendants' malicious activities. This can already be seen by effect of the Court's prior orders in this case. Executing the Court's previous Temporary Restraining Order and Preliminary Injunction Order, Microsoft cut communications between Defendants' existing command and

control infrastructure and the victim computers and networks that Defendants attacked and from which Defendants had been stealing information.

- 33. The Phosphorus defendants' techniques are designed to resist technical mitigation efforts, eliminating easy technical means to curb the injury being caused. For example, once domains in the Phosphorus defendants' active infrastructure become known to the security community, the defendants abandon that infrastructure and move to new infrastructure that is used to continue the Phosphorus defendants' efforts to compromise accounts of new victims. For this reason, providing notice to the Phosphorus defendants in advance of redirection of the domains at issue would render attempts to disable the infrastructure futile. Further, when the Phosphorus defendants become aware of efforts to mitigate or investigate their activities, they take steps to conceal their activities and to conceal the injury that has been caused to victims, making it more difficult for victims to adequately assess the damage or take steps to mitigate that injury going forward. For this reason as well, providing notice to the Phosphorus defendants in advance of redirection of the domains at issue would render attempts to mitigate the harm futile, or at least much more difficult for Microsoft. Piecemeal requests to disable these domains, informal dispute resolution or notice to the defendants prior to redirecting the domains would be insufficient to curb the injury. Based on my experience observing the operation of numerous intrusions such as those carried out by the Phosphorus defendants, and prior investigations and legal actions involving such intrusions and actors, I believe that the Phosphorus defendants would take swift preemptive action to conceal the extent of the victimization of Microsoft and its customers and to defend their infrastructure, if they were to learn of Microsoft's impending action and request for relief.
- 34. I am informed and believe there have been prior instances where security researchers or the government attempted to curb injury caused by actors carrying out intrusions such as those in this case, but allowed those actors to receive notice. In these cases, the actors quickly concealed the scope and nature of their intrusion, and moved the infrastructure to new, unidentified locations on the Internet and took other countermeasures causing the actors to

continue their operations and destroying or concealing evidence of their operations. For example, after public reports on this actor group were made available, the control panel cited in **Figures 8** through **10** was updated to require authentication. For all of these reasons, I believe that the only way to mitigate injury and disrupt the most recent, active Phosphorus infrastructure, is to redirect the domains at issue prior to providing notice to the defendants.

- 35. One of the basic questions faced by Microsoft's investigators in the course of their investigation into Phosphorus is determining whether or not a domain misusing a Microsoft trademark is actually associated with illegal activity being conducted by the Defendants. Fortunately, such a determination can be reliably made based upon what we know about Phosphorus and how they operate their criminal infrastructure.
- 36. First, the Defendants typically use a small set of distinctive malware, and this malware can be identified and distinguished from other types of malware based on several specific forensic factors. The specific types of malware known to be used by Defendants are listed in **Exhibit 2** to this Declaration. The presence of this distinctive malware therefore serves as a reliable indicator that Defendants are involved. In other words, if the malware used in a new attack matches the distinctive malware known to have been used by the Defendants in past attacks, it indicates that the actors behind the new attack are the Defendants. Further, in the future, if new malware variants or families are used by Phosphorus, Phosphorus may be identified based on the similarity of such new malware to previously used malware and previously used modes of deploying such malware.
- 37. Because Phosphorus malware is reasonably distinctive, domains that are used to deliver the Phosphorus malware to targeted victims and domains that are used to communicate with Phosphorus malware already installed on victim networks are strongly implicated as Phosphorus domains. For example, phishing e-mails that deliver Phosphorus malware in the form of weaponized documents or other attachments may come from or contain links back to particular domains. Other phishing e-mails include links to domains that Defendants have set up in advance as websites designed to download Phosphorus malware to the user's computer and

infect it. Once installed on a computer, Phosphorus malware is programmed to connect to and communicate with a particular set of domains after it successfully infects a victim network. In any of these cases, the Internet domains associated with the Phosphorus attack are strongly implicated as Phosphorus domains.

- 38. Second, Microsoft has identified patterns in the registration information provided by Defendants when registering the domains that they use in their illegal activities. The factors considered include information required to be submitted during the domain registration process and includes information such as: "name," e-mail address, address and phone number provided by the registrant, the hosting service designated, the name servers used, and the IP address associated with the domain. Basic registration information associated with Domains registered by Defendants in the past, including the more recent domains registered by Defendants, is included in Exhibit 2. If the registration information associated with a newly identified domain closely matches the pattern associated with domains registered by the Defendants in the past, it is a strong indicator that the Defendants are behind the registration of the new domain. Further, in the future, if new information is used by Defendants, but registration patterns are similar to previously used registration patterns, this too will permit Phosphorus domains to be reliably identified.
- 39. Third, Microsoft considers the specific tactics used during a new attack. For example, Phosphorus Defendants often send phishing e-mails to victims in which the e-mail purports to be a notification from Microsoft to the recipient regarding an unauthorized access to the recipients Microsoft account, and requesting that the recipient reset his or her account credentials. If the victim clicks on the embedded "Change Password" button in the phishing email, the victim will be connected to a Phosphorus-controlled website which will attempt to induce the victim to enter his account credentials. Other tactics favored by the Phosphorus Defendants include particular deployments of remote code execution through browser drive-by, remote code execution through malicious attachment, privilege escalation or sandbox escape, security feature bypass, social engineering based attack and/or bootstrapped add-on. Where the

tactics used in a new attack match the tactics observed to be favored by Phosphorus Defendants in past attacks, it is an indication that the Phosphorus Defendants are behind the new attack. Consequently, a domain can be linked to the Phosphorus Defendants by observing the tactics used in attacks involving that domain. Further, in the future, if the details, code and mode of execution change, but the general tactics are consistent with prior tactics of Phosphorus, this too will permit Phosphorus domains to be identified.

- 40. Fourth, the Phosphorus Defendants tend to target a particular type of victim and attempt to steal particular types of information. Therefore, Microsoft can use information about the intended victim to help determine whether or not Defendants are involved in the new attack. For example, Phosphorus continues to target Microsoft customers who are political dissidents, activist leaders, the Defense Industrial Base (DIB), journalists, and employees from multiple government agencies, including individuals protesting oppressive regimes in the Middle East. Where an Internet domain is associated with an attack on these particular types of targets, it is a factor that is consistent with the known activity and objectives of the Defendants. Further, in the future, if the targeted individuals or institutions are consistent with prior tactics of Phosphorus, this too will permit Phosphorus domains to be identified.
- 41. Fifth, the Phosphorus Defendants have used Microsoft trademarked brands or slight misspellings of those brands in the names of the domains that they register for their illegal activity, or generalized versions suggestive of Microsoft's services. Defendants use this "blending" technique to disguise the illegal nature of their conduct from the intended target. Thus, use of Microsoft trademarks, brand names or slight misspellings or confusing variations of those trademarks or brand names in the domain name, or generalized versions of indicators of Microsoft's services, is an indicator that the domain is associated with Phosphorus. The list of known and likely trademarks, brands and variants used by Phosphorus is set forth at Exhibit 2.
- 42. Microsoft considers many factors associated with a domain including those described above and listed in Exhibit 2 to make a balanced determination of whether or not a domain is being used by the Phosphorus Defendants.

43. Defendants continue to register domains to carry out attacks on Microsoft's technology and customers, in particular, using Microsoft's trademarks, brands and other deceptive means, despite the court's previous orders to cease that activity and despite the prior relief which removed previously used domains from Defendants' control. Given Defendants' apparent willingness to violate the court's orders on an ongoing basis, and the ease and speed with which Defendants can register Microsoft-related domains to continue their attacks, an ongoing process is needed to efficiently and quickly curtail such activities as soon as Defendants register domains for their attacks. Without such a process, Defendants will be able to continue their malicious and illegal activities, and will continue to cause irreparable injury to Microsoft, its customers and the public. Without such a process, Defendants will not be deterred from engaging in such illegal and harmful activities. I have reviewed the process set forth in Microsoft's Ex Parte Motion for Second Supplemental Preliminary Injunction Order submitted with this declaration. Based on my experience and background, I conclude as a technical and practical matter that the process set forth in the proposed order would enable Microsoft and the Court to effectively and efficiently enforce the Court's prior and ongoing orders and stop the irreparable harm caused by Defendants' illegal activities on an ongoing basis. I also reach this conclusion on the basis that this same expedited process is in place, and ongoing, with respect to a separate matter in the Eastern District of Virginia, addressing a different threat actor group. The process has been effective in that matter. Thus, I conclude that it would be effective in the instant matter as well.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct to the best of my knowledge. Executed this 17th day of July 2019, in Redmond, Washington.

David E. Anselmi

EXHIBIT 1

APPENDIX A

.COM DOMAINS

<u>Registry</u>

c/o

VeriSign, Inc. VeriSign Information Services, Inc. 12061 Bluemont Way Reston, Virginia 20190 **United States**

11 (*1	D ' A AND AND A A L
mail-files.com	Registrant Name: WhoisGuard Protected
	Registrant Organization: WhoisGuard, Inc.
	Registrant Street: P.O. Box 0823-03411
	Registrant City: Panama
	Registrant State/Province: Panama
	Registrant Postal Code:
	Registrant Country: PA
	Registrant Phone: +507.8365503
	Registrant Phone Ext:
	Registrant Fax: +51.17057182
	Registrant Fax Ext:
	Registrant Email:
	bd04d6f1eec84a9ba600d7c0c6f0325f.protect@whoisguard.com
logins-signin.com	Registrant Name: WhoisGuard Protected
	Registrant Organization: WhoisGuard, Inc.
	Registrant Street: P.O. Box 0823-03411
	Registrant City: Panama
	Registrant State/Province: Panama
	Registrant Postal Code:
	Registrant Country: PA
	Registrant Phone: +507.8365503
	Registrant Phone Ext:
	Registrant Fax: +51.17057182
	Registrant Fax Ext:
	Registrant Email:
	be7e7649fbab44d5becff2c72e436f84.protect@whoisguard.com
supports-email.com	Registrant Name: Domain ID Shield Service
	Registrant Organization: Domain ID Shield Service CO.,
	Limited
	Registrant Street: FLAT/RM A, 9/F SILVERCORP
	INTERNATIONAL TOWER, 707-713 NATHAN ROAD,
	MONGKOK, KOWLOON, HONG KONG
	Registrant City: Hong Kong
	Registrant State/Province: Hong Kong
	Registrant Postal Code: 999077
	Registrant Country: HK
	Registrant Phone: +852.21581835
	Registrant Phone Ext:
	Registrant Fax: +852.30197491
L	1 0

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	Registrant Fax Ext:
	Registrant Email: whoisprivacy@domainidshield.com
	onlinenic-enduser@onlinenic.com
loginacount.com	Registrant Organization: frederik
	Registrant State/Province: hessen
	Registrant Country: DE
	Registrant Email: Contact holder at
	https://www.domainidshield.com/gdpr
	onlinenic-enduser@onlinenic.com

.ORG DOMAINS

Registry

Public Interest Registry (PIR) 1775 Wiehle Avenue Suite 200 Reston Virginia 20190 United States

account-verify.org	Registrant Organization: delijapp
	Registrant State/Province: hb
	Registrant Country: AF
	onlinenic-enduser@onlinenic.com

.INFO DOMAINS

Registry

Afilias, Inc.
300 Welsh Road
Building 3, Suite 105
Horsham, PA 19044
United States

share-doc.info	Registrant Organization: Schroeder co.
	Registrant State/Province: NC
	Registrant Country: AF
	onlinenic-enduser@onlinenic.com

EXHIBIT 2

I. Criteria Indicating Phosphorus Domains

Delivers malicious software, code, commands, exploits and/or "backdoor" functionality previously associated with Phosphorus, including but not limited to: Stealer malware, or similar code or functionality deployed in a manner previously associated with Phosphorus.	Associated with remote code execution through browser drive-by or malicious attachment, privilege escalation or sandbox escape, security feature bypass, social engineering based attack and/or bootstrapped add-on, escalation of privileges, DLL file backdoor, credential stealing functionality, SSL tunnel, and/or functionality to deliver code or functions to "air gapped" USB devices, deployed in a manner previously associated with Phosphorus or similar code or functionality.
Domain registration information	Use of cryptocurrency to purchase services
Name servers	Start of Authority (SOA) records
Resolves to IP of past Phosphorus domain, command and control server or similar infrastructure	Resolves to IP used in past Phosphorus malware delivery or credential harvesting domains or credential harvesting domains
Used to deceive, target, obtain information from, and/or communicate commands or code to recipients, persons, institutions or networks previously targeted by Phosphorus.	Used to deceive, target, obtain information from, and/or communicate commands or code to recipients that may possess or be able to provide sensitive information or trade secrets of persons, entities or networks related to the defense, critical infrastructure or high technology sectors, journalists, political advisors or organizations, government bodies, diplomatic institutions, religious organizations, universities, and/or military forces and installations.
SSL Cert Issuer_DN	SSL Cert Subject_DN
Host	Registrar
Domains similar to previously used domains	Victims being targeted similar to past targets

II. Known And Likely Microsoft Trademarks and Brands Used By Phosphorus

While Defendants may use any Microsoft marks, brands or confusingly similar indicators, Defendants have already exploited or are likely to exploit the following: "365," "Azure," "Bing," "Excel," "Exchange," "Healthvault," "Hotmail," "LinkedIn," "Live," "Messenger," "Microsoft," "Minecraft," "MSDN," "MSFT," "MS," "MSN," ".NET," 0365," "Office," "OneDrive," "Outlook," "OWA," "Passport," "PowerPoint," "SharePoint," "Skype," "Surface," "Visio," "Win," "Windows," and "Xbox."

While Defendants may use any keyword, in combination with Microsoft marks, brands or confusingly similar indicators, or with other keywords, we believe following are the most likely keywords to be used, along with intentional misspellings:

365	analytic	care	click	continue
64	app	cares	cloud	control
access	are	center	com	corp
account	assist	centr	component	corporate
accounts	auth	centre	config	corporation
activities	authenticate	certificate	confirm	crc
adapter	authorizes	cfg	confirmation	credentials
adviser	broadcast	change	connect	customer
agency	bulletin	check	consumer	daily
american	cache	checksum	content	data

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dc delivery department depatrment dev docs document download drivadptrwin drive	http id identification identifier identify identity inbox info intel intelligence	my mymail net network news notification onlihe online options page	redirect reply reserve review scan search sec secure securing security	support sync sys system team technology telecom telegram tellekom terms
driver	ipv4	panel	sell	test
drivers	ipv6	passport	send	tests
dry	issue	password	server	tools
edit	link	pc	service	transfer
elite	log	permission	servicing	trust
email	login	plus	session	trusted
expo	magic	podcast	set	update
file	mail	policy	setting	updater
fix	mailbox	politics	settings	updates
forum	management	press	share	upgrade
general	manager	privacy	sharing	user
getupdate	me	product	shop	users
getupdt	media	profile	signal	verification
global	meeting	progress	signin	verify
gov	member	protect	site	wear
help	message	protected	speak	web
here	mfa	provider	srv	webmail
home	mobile	ready	statistic	world
host	module	recognized	status	you
hotfix	monitor	recovery	store	your

III. Phosphorus Domains Registered By Defendants To Date

yahoo-verification.org	Registrant: Domain Administrator Registrant Organization: Yahoo! Inc. Registrant Street: 109 First Registrant City: Sunnyvale Registrant State/Province: CA Registrant Postal Code: 94988 Registrant Country: BA Registrant Phone: +1.4038493301 Registrant Fax: +1.4038493302 Registrant Email: domainadmin@yahoo-verification.org
support-servics.com	Registrant Name: hash crypt Registrant Organization: hashcrypt Registrant Street: nbcj hjf,m Registrant City: losangles Registrant State/Province: Alabama Registrant Postal Code: 35004 Registrant Country: US Registrant Phone: +1.09876543567 Registrant Email: hashcrypt@protonmail.com
verification-live.com	Registrant Name: Domain Administrator Registrant Organization: Microsoft Corporation

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	L D L L G G G G G D G G G D D L G G L G G G G
	Registrant Street: AS8068 MICROSOFT-CORP-MSN-AS-BLOCK -
	Microsoft Corporation,
	Registrant City: toranto
	Registrant State/Province: toranto
	Registrant Postal Code: 64043
	Registrant Country: UM
	Registrant Phone: +1.6509234001
	Registrant Fax: +1.6509234002
	Registrant Email: test9179@porotonmail.com
com-mailbox.com	Registrant Name: Priview Service
	Registrant Organization: mish
	Registrant Street: No 885, Azar st
	Registrant City: Dubai
	Registrant State/Province: Dubai
	Registrant Postal Code: 98120
	Registrant Country: AE
	Registrant Phone: +97.3218526
	Registrant Fax: +97.3218526
	Registrant Email: domain.seller2017@yandex.com
com-myaccuants.com	Registrant Name: Domain ID Shield Service
com-myaccuants.com	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registrant City: Hong Kong
	Registrant State/Province: Hong Kong
	Registrant Postal Code: 999077
	Registrant Country: CN
	Registrant Phone: +852.21581835
	Registrant Fax: +852.30197491
101	Registrant Email: co5940551458104@domainidshield.com
notification-accountservice.com	Registrant Name: mosa alnarjani
	Registrant Organization:
	Registrant Street: baqdad, alqusair st, no 246
	Registrant City: baqdad
	Registrant State/Province: baqdad
	Registrant Postal Code: 548996
	Registrant Country: IQ
	Registrant Phone: +964.7730061463
	Registrant Email: meisam.bayat.sector@gmail.com
accounts-web-mail.com	Registrant Name: Domain Administrator
	Registrant Organization: Yahoo! Inc.
	Registrant Street: 107 First Avenue
	Registrant City: Sunnyvale
	Registrant State/Province: CA
	Registrant Postal Code: 94989
	Registrant Country: US
	Registrant Phone: +1.4038493300
	Registrant Fax: +1.4038493301
	Registrant Email: test9179@yahoo.com
	1 registrati Email. test/1//wyanoo.com

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customer-certificate.com	Registrant Name: Domain ID Shield Service
	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registrant City: Hong Kong
	Registrant State/Province: Hong Kong
	Registrant Postal Code: 999077
	Registrant Country: HK
	Registrant Phone: +852.21581835
	Registrant Fax: +852.30197491
	Registrant Email: whoisprivacy@domainidshield.com
session-users-activities.com	Domain ID Shield Service
session users activities.com	Domain ID Shield Service CO., Limited
	FLAT/RM A, 9/F SILVERCORP INTERNATIONAL TOWER, 707-713
	NATHAN ROAD, MONGKOK, KOWLOON, HONG KONG
	Hong Kong
	Hong Kong
	999077
	HK
	Phone: +852.21581835
	Fax: +852.30197491
	whoisprivacy@domainidshield.com
user-profile-credentials.com	Domain ID Shield Service
	Domain ID Shield Service CO., Limited
	FLAT/RM A, 9/F SILVERCORP INTERNATIONAL TOWER, 707-713
	NATHAN ROAD, MONGKOK, KOWLOON, HONG KONG
	Hong Kong
	Hong Kong
	999077
	HK
	Phone: +852.21581835
	Fax: +852.30197491
	whoisprivacy@domainidshield.com
verify-linke.com	Registrant Name: sora bara
verify immediating	Registrant Organization: narabara
	Registrant Street: ara
	Registrant City: mara
	Registrant State/Province: nara
	Registrant Postal Code: 7482957439
	Registrant Country: BI
	Registrant Phone: +1.234124323
	Registrant Fax: +1.2129876243
	Registrant Email: test9179@protonmail.com
support-servics.net	Registrant Name: Support Services Inc.
	Registrant Organization: Support Services Inc.
	Registrant Street: 1901 Amphitheatre Parkway
	Registrant City: Mountain View
	Registrant State/Province: 64043
	Registrant Postal Code: 64043
	Registrant Country: US
	Registrant Phone: +1.6509234001
	Registrant Fax: +1.6509188572
	Registrant Email: test9179@protonmail.com
verify-linkedin.net	Registrant Name: sora bara
	Registrant Organization: none
L	1 0 1

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	Registrant Street: ara
	Registrant City: mara
	Registrant State/Province: nara
	Registrant Postal Code: 748295743
	Registrant Country: BI
	Registrant Phone: +75.234124323
	Registrant Fax: +86.12124321
	Registrant Email: dnsadmin@verify-linkedin.com
yahoo-verification.net	Registrant Organization: Yahoo! Inc.
yanoo-vermeation.net	
	Registrant Street: 107 First Avenue
	Registrant City: Sunnyvale
	Registrant State/Province: CA
	Registrant Postal Code: 94989
	Registrant Country: BA
	Registrant Phone: +1.4038493300
	Registrant Fax: +1.4038493301
	Registrant Email: test9179@yahoo.com
yahoo-verify.net	Registrant Name: Domain Administrator
yanoo-verity.net	
	Registrant Organization: Yahoo! Inc.
	Registrant Street: 701 First Avenue
	Registrant City: Sunnyvale
	Registrant State/Province: CA
	Registrant Postal Code: 98089
	Registrant Country: BI
	Registrant Phone: +1.4083893300
	Registrant Fax: +1.4083893301
	Registrant Email: domainadmin@yahoo-verify.net
outlook-verify.net	Registrant Name: Domain Administrator
outlook-verify.het	
	Registrant Organization: Microsoft Corporation
	Registrant Street: One Microsoft Way, Redmond, WA, 98052, US
	Registrant City: Washington
	Registrant State/Province: canada
	Registrant Postal Code: 7482957439
	Registrant Country: US
	Registrant Phone: +1.234124323
	Registrant Phone Ext:
	Registrant Fax: +1.2129876243
	Registrant Fax Ext:
	Registrant Email: supportiveemail@protonmail.com
com-users.net	Registrant Name: Domain ID Shield Service
	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registrant City: Hong Kong
	Registrant State/Province: Hong Kong
	Registrant Postal Code: 999077
	Registrant Country: CN
	Registrant Phone: +852.21581835
	Registrant Phone Ext:
	Registrant Fax: +852.30197491
	Registrant Fax Ext:
	Registrant Email: co5806503530204@domainidshield.com
verifiy-account.net	Registrant Name: Domain ID Shield Service
	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL

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	TOWER 707 712 NATHAN BOAD MONCYOV VOWEON HONG
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registrant City: Hong Kong
	Registrant State/Province: Hong Kong
	Registrant Postal Code: 999077
	Registrant Country: HK
	Registrant Phone: +852.21581835
	Registrant Fax: +852.30197491
. 1	Registrant Email: whoisprivacy@domainidshield.com
te1egram.net	Registrant Name: NS-CLOUD-B1.GOOGLEDOMAINS.COM
	Registrant Organization: Domains By Proxy, LLC
	Registrant Street: clientTransferProhibited
	https://icann.org/epp#clientTransfe
	Registrant City: Arizona
	Registrant State/Province: Arizona
	Registrant Postal Code: 0056
	Registrant Country: US
	Registrant Phone: +1.4806242505
	Registrant Fax: +1.4806242506
	Registrant Email: verdonew@protonmail.com
account-verifiy.net	Registrant Name: Domain ID Shield Service
·	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registrant City: Hong Kong
	Registrant State/Province: Hong Kong
	Registrant Postal Code: 999077
	Registrant Country: HK
	Registrant Phone: +852.21581835
	Registrant Fax: +852.30197491
	Registrant Email: whoisprivacy@domainidshield.com
myaccount-services.net	Registrant Name: Domain ID Shield Service
ing account services.net	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registrant City: Hong Kong
	Registrant State/Province: Hong Kong
	Registrant Postal Code: 999077
	Registrant Country: HK
	Registrant Phone: +852.21581835
	Registrant Fax: +852.30197491
	Registrant Email: whoisprivacy@domainidshield.com
id-utiC-uid	Designant Names Wheis Asset
com-identifier-servicelog.name	Registrant Name: Whois Agent
	Registrant Organization: Domain Protection Services, Inc.
	Registrant Street: PO Box 1769
	Registrant City: Denver
	Registrant State/Province: CO
	Registrant Postal Code: 80201
	Registrant Country: US
	Registrant Phone: +1.7208009072
	Registrant Fax: +1.7209758725
	Registrant Email: https://www.name.com/contact-domain-whois/com-
	identifier-servicelog.name
	abuse@name.com

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	Registrant Name: Chada Martini
	Registrant Organization: cavy
	Registrant Street: No 67, King st
	Registrant City: Tashkent
	Registrant State/Province: Tashkent
	Registrant Postal Code: 46543
	Registrant Country: UZ
	Registrant Phone: +968.8007762430
	Registrant Fax: +968.8007762430
microsoft-update.bid	Registrant Email: chada.martini@yandex.com
	Registrant Name: Chada Martini
	Registrant Organization: cavy
	Registrant Street: No 67, King st
	Registrant City: Tashkent
	Registrant State/Province: Tashkent
	Registrant Postal Code: 46543
	Registrant Country: UZ
	Registrant Phone: +968.8007762430
outlook-livecom.bid	Registrant Fax: +968.8007762430
outlook-livecom.bid	Registrant Email: chada.martini@yandex.com
	Registrant Name: Chada Martini
	Registrant Organization: cavy
	Registrant Street: No 67, King st
	Registrant City: Tashkent
	Registrant State/Province: Tashkent
	Registrant Postal Code: 46543
	Registrant Country: UZ
	Registrant Phone: +968.8007762430
	Registrant Fax: +968.8007762430
update-microsoft.bid	Registrant Email: chada.martini@yandex.com
	Registrant Name: Whois Agent
	Registrant Organization: Domain Protection Services, Inc.
	Registrant Street: PO Box 1769
	Registrant City: Denver
	Registrant State/Province: CO
	Registrant Postal Code: 80201
	Registrant Country: US
	Registrant Phone: +1.7208009072
	Registrant Fax: +1.7209758725
documentsfilesharing.cloud	documentsfilesharing.cloud@protecteddomainservices.com
documentsinesitaring,erodd	Registrant Name: Chada Martini
	Registrant Organization: cavy
	Registrant Street: No 67, King st
	Registrant City: Tashkent
	Registrant State/Province: Tashkent
	Registrant Postal Code: 46543
	Registrant Country: UZ
	Registrant Phone: +968.8007762430
	Registrant Fax: +968.8007762430
com-microsoftonline.club	Registrant Email: chada.martini@yandex.com
confirm-session-identifier.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
session-management.info	Registrant Organization: Domain ID Shield Service CO., Limited
1	Registrant State/Province: Hong Kong

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	Description Country CM
	Registrant Country: CN onlinenic-enduser@onlinenic.com
confirmation-service.info	Registrant Organization: Domain ID Shield Service CO., Limited
commination-service.into	
	Registrant State/Province: Hong Kong
	Registrant Country: HK onlinenic-enduser@onlinenic.com
document-share.info	
document-snare.info	Registrant Organization: Martini
	Registrant State/Province: Tashkent
	Registrant Country: UZ onlinenic-enduser@onlinenic.com
broadcast-news.info	Registrant Organization: Domain ID Shield Service CO., Limited
broadcast-news.iiio	Registrant Organization: Domain 1D Smeid Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK onlinenic-enduser@onlinenic.com
and mine identity in fa	
customize-identity.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
webemail.info	onlinenic-enduser@onlinenic.com
webemaii.inio	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
asm identifier convisales info	onlinenic-enduser@onlinenic.com
com-identifier-servicelog.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
anatamina idantitu infa	onlinenic-enduser@onlinenic.com
customize-identity.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
do oum ontabonin a info	onlinenic-enduser@onlinenic.com
documentsharing.info	Registrant Organization: will co
	Registrant State/Province: VA Registrant Country: AF
	onlinenic-enduser@onlinenic.com
notification-accountservice.info	Registrant Organization: Domain ID Shield Service CO., Limited
notification-accountservice.iiiio	Registrant State/Province: Hong Kong
	Registrant Country: CN
	onlinenic-enduser@onlinenic.com
identifier-activities.info	Registrant Organization: Domain ID Shield Service CO., Limited
identifier-activities.info	Registrant State/Province: Hong Kong
	Registrant Country: CN
	onlinenic-enduser@onlinenic.com
documentofficupdate.info	Registrant Organization: William Brown
documentom cupdate.nno	Registrant State/Province: VA
	Registrant Country: US
	onlinenic-enduser@onlinenic.com
recoveryusercustomer.info	Registrant Organization: Domain ID Shield Service CO., Limited
1000 voi y uscreusionner.inio	Registrant State/Province: Hong Kong
	Registrant Country: CN
	onlinenic-enduser@onlinenic.com
serverbroadcast.info	Registrant Organization: Domain ID Shield Service CO., Limited
Sci veroroadeast.iiito	Registrant State/Province: Hong Kong
	Registrant Country: CN
	onlinenic-enduser@onlinenic.com
account-profile-users.info	Registrant Organization: arsalan co.
account-prome-users.into	regionain Organization, arbaian co.

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	Designation Chata/Duryinga Lavigiona
	Registrant State/Province: Louisiana
	Registrant Country: US
•	onlinenic-enduser@onlinenic.com
account-service-	Registrant Organization: Domain ID Shield Service CO., Limited
management.info	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
accounts-manager.info	Registrant Organization: Domain ID Shield Service CO., Limited
_	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
activity-confirmation-	Registrant Organization: Domain ID Shield Service CO., Limited
service.info	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
com-accountidentifier.info	Registrant Organization: Domain ID Shield Service CO., Limited
com accountación de la contraction de la contrac	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
com-privacy-help.info	Registrant Organization: Domain ID Shield Service CO., Limited
com-privacy-nerp.mio	Registrant State/Province: Hong Kong
	Registrant Country: HK
com-sessionidentifier.info	onlinenic-enduser@onlinenic.com
com-sessionidentifier.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
com-useraccount.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
confirmation-users-service.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
confirm-identity.info	Registrant Organization: Domain ID Shield Service CO., Limited
-	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
confirm-session-	Registrant Organization: Domain ID Shield Service CO., Limited
identification.info	Registrant State/Province: Hong Kong
	Registrant Country: CN
	onlinenic-enduser@onlinenic.com
continue-session-identifier.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: CN
	onlinenic-enduser@onlinenic.com
customer-recovery.info	Registrant Organization: Domain ID Shield Service CO., Limited
customer recovery.mno	Registrant State/Province: Hong Kong
	Registrant Country: CN
	onlinenic-enduser@onlinenic.com
augtomora activities info	
customers-activities.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com

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elitemaildelivery.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
email-delivery.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: CN
	onlinenic-enduser@onlinenic.com
identify-user-session.info	Registrant Organization: Domain ID Shield Service CO., Limited
lacing aser sessionnine	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
message-serviceprovider.info	Registrant Organization: Domain ID Shield Service CO., Limited
message-serviceprovider.info	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
notificationapp.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
notification-manager.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
recognized-activity.info	Registrant Organization: will co
	Registrant State/Province: VA
	Registrant Country: VA
	onlinenic-enduser@onlinenic.com
recover-customers-service.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
recovery-session-change.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
service-recovery-session.info	Registrant Organization: Domain ID Shield Service CO., Limited
service recevery session	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
service-session-continue.info	Registrant Organization: Domain ID Shield Service CO., Limited
service session continue.into	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
session-mail-customers.info	Registrant Organization: Domain ID Shield Service CO., Limited
session-man-customers.imo	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
cassian management info	
session-managment.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
session-verify-user.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK

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	onlinenic-enduser@onlinenic.com
shop-sellwear.info	Registrant Organization: maryam s32
	Registrant State/Province: tersite
	Registrant Country: US
	onlinenic-enduser@onlinenic.com
supportmailservice.info	Registrant Organization: Domain ID Shield Service CO., Limited
supportunitation	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
terms-service-notification.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
user-activity-issues.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
useridentity-confirm.info	Registrant Organization: Domain ID Shield Service CO., Limited
0.000.000.00000000000000000000000000000	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
users-issue-services.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
verify-user-session.info	Registrant Organization: Domain ID Shield Service CO., Limited
, this does sometimes	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
login-gov.info	Registrant Organization: Domain ID Shield Service CO., Limited
regin ge waare	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
notification-signal-agnecy.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
notifications-center.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
identifier-services-sessions.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
customers-manager.info	Registrant Organization: Home
	Registrant State/Province: TX
	Registrant Country: US
	onlinenic-enduser@onlinenic.com
session-manager.info	Registrant Organization: Home
	Registrant State/Province: TX
	Registrant Country: US
	onlinenic-enduser@onlinenic.com
customer-managers.info	Registrant Organization: Home
	Registrant State/Province: TX

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	Registrant Country: US
	onlinenic-enduser@onlinenic.com
confirmation-recovery-	Registrant Organization: Domain ID Shield Service CO., Limited
options.info	Registrant State/Province: Hong Kong
· F · · · · · · · · · · · · · ·	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
service-session-confirm.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
session-recovery-options.info	Registrant Organization: Domain ID Shield Service CO., Limited
session receivery options.mic	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
services-session-	Registrant Organization: Domain ID Shield Service CO., Limited
confirmation.info	Registrant State/Province: Hong Kong
Communic	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
notification-managers.info	Registrant Organization: Domain ID Shield Service CO., Limited
motification managers.mic	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
activities-services-	Registrant Organization: Domain ID Shield Service CO., Limited
notification.info	Registrant State/Province: Hong Kong
notification.mio	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
activities-recovery-options.info	Registrant Organization: Domain ID Shield Service CO., Limited
detivities recovery options.into	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
activity-session-recovery.info	Registrant Organization: Domain ID Shield Service CO., Limited
detivity session recovery.mie	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
customers-services.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
recovery-session-change.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
notification-manager.info	Registrant Organization: Domain ID Shield Service CO., Limited
and the transfer and the grant of the grant	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
session-managment.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
sessions-notification.info	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
download-teamspeak.info	Registrant Organization: Domain ID Shield Service CO., Limited
25 THOUGH TOURING	1 Distriction of Different Co., Different Co., Different Co.,

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	Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
services-issue-notification.info	Registrant Organization: Domain ID Shield Service CO., Limited Registrant State/Province: Hong Kong
	Registrant Country: HK
	onlinenic-enduser@onlinenic.com
microsoft-upgrade.mobi	Registrant Name: Chada Martini
interesent appraise.meer	Registrant Organization: cavy
	Registrant Street: No 67, King st
	Registrant City: Tashkent
	Registrant State/Province: Tashkent
	Registrant Postal Code: 46543
	Registrant Country: UZ
	Registrant Phone: +968.8007762430
	Registrant Fax: +968.8007762430
hroadaastnayys nra	Registrant Email: chada.martini@yandex.com
broadcastnews.pro	Registrant State/Province: UT Registrant Country: US
	abuse@name.com
mobile-messengerplus.network	Registrant Name: Cave Detector
moone messengerprasmerwork	Registrant Organization: Masqat Co
	Registrant Street: No 64, Lion St
	Registrant City: Masqat
	Registrant State/Province: Masqat
	Registrant Postal Code: 85641
	Registrant Country: OM
	Registrant Phone: +968.8007762430
	Registrant Fax: +968.8007762430
sessions-identifier-	Registrant Email: cave.detector@yandex.com Registrant Name: REDACTED FOR PRIVACY
memberemailid.network	Registrant Organization: Domain Protection Services, Inc.
memberemama.network	Registrant Street: REDACTED FOR PRIVACY
	Registrant City: REDACTED FOR PRIVACY
	Registrant State/Province: CO
	Registrant Postal Code: REDACTED FOR PRIVACY
	Registrant Country: US
	Registrant Phone: REDACTED FOR PRIVACY
	Registrant Phone Ext: REDACTED FOR PRIVACY
	Registrant Fax: REDACTED FOR PRIVACY
	Registrant Fax Ext: REDACTED FOR PRIVACY Registrant Email: Please query the RDDS service of the Registrar of
	Record identified in this output for information on how to contact the
	Registrant, Admin, or Tech contact of the queried domain name.
	Registrar: Name.com, Inc.
	Registrar IANA ID: 625
	Registrar Abuse Contact Email: abuse@name.com Registrar Abuse Contact Phone: +7.202492374
scribdinc.com	Registrant Name: Whois Agent
	Registrant Organization: Domain Protection Services, Inc.
	Registrant Street: PO Box 1769
	Registrant City: Denver
	Registrant State/Province: CO
	Registrant Postal Code: 80201

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	Registrant Country: US
	Registrant Phone: +1.7208009072
	Registrant Fax: +1.7209758725
	Registrant Email: https://www.name.com/contact-domain-
	whois/scribdinc.com
	abuse@name.com
telagram.net	Registrant Name: Domain ID Shield Service
	Registrant Organization: Domain ID Shield Service CO., Limited
	Registrant Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registrant City: Hong Kong
	Registrant State/Province: Hong Kong
	Registrant Postal Code: 999077
	Registrant Country: HK
	Registrant Phone: +852.21581835
	Registrant Phone Ext:
	Registrant Fax: +852.30197491
	Registrant Fax Ext:
	Registrant Email: whoisprivacy@domainidshield.com
bahaius.info	Registration Name: Domain ID Shield Service
	Registration Organization: Domain ID Shield Service CO., Limited
	Registration Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registration City: Hong Kong
	Registration State/Province: Hong Kong
	Registration Postal Code: 999077
	Registration Country: HK
	Registration Phone: +852.21581835
	Registration Phone Ext:
	Registration Fax: +852.30197491
	Registration Fax Ext:
	Registration Email: whoisprivacy@domainidshield.com
customers-reminder.info	Registration Name: Domain ID Shield Service
	Registration Organization: Domain ID Shield Service CO., Limited
	Registration Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registration City: Hong Kong
	Registration State/Province: Hong Kong
	Registration Postal Code: 999077
	Registration Country: HK
	Registration Phone: +852.21581835
	Registration Phone Ext:
	Registration Fax: +852.30197491
	Registration Fax. 1832.30197491 Registration Fax Ext:
	Registration Email: whoisprivacy@domainidshield.com

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identity wanification compiles info	D : A : N D : D GI: H G :
identity-verification-service.info	Registration Name: Domain ID Shield Service
	Registration Organization: Domain ID Shield Service CO., Limited
	Registration Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registration City: Hong Kong
	Registration State/Province: Hong Kong
	Registration Postal Code: 999077
	Registration Country: HK
	Registration Phone: +852.21581835
	Registration Phone Ext:
	Registration Fax: +852.30197491
	Registration Fax Ext:
	Registration Email: whoisprivacy@domainidshield.com
inbox-drive.info	Registration Name: Jennifer J. Bradley
moon university	Registration Organization: roseron co
	Registration Street: 2811 Maple Avenue
	Registration City: Modesto
	Registration State/Province: CA
	Registration Postal Code: 95354
	Registration Country: US
	Registration Phone: +1.251548796
	Registration Phone Ext:
	Registration Fax: +1.251548796
	Registration Fax Ext:
	Registration Email: amanda.cristiani15@gmail.com
inbox-sharif.info	Registration Name: Jennifer J. Bradley
	Registration Organization: roseron co
	Registration Street: 2811 Maple Avenue
	Registration City: Modesto
	Registration State/Province: CA
	Registration Postal Code: 95354
	Registration Country: AF
	Registration Phone: +1.2564158796
	Registration Phone Ext:
	Registration Fax: +1.2564158796
	Registration Fax Ext:
	Registration Email: amanda.cristiani15@gmail.com
magic-delivery.info	Registration Name: William Brown
	Registration Organization: will co
	Registration Street: 410 Coulter Lane
	Registration City: Richmond
	Registration City. Richmond Registration State/Province: VA
	Registration Postal Code: 23226
	Registration Country: VA
	Registration Phone: +1.8042873632
	Registration Phone Ext:
	Registration Fax: +1.8042873632

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	Registration Fax Ext:
	Registration Email: williambrown.wl.br@gmail.com
recovery-services.info	Registration Name: Domain ID Shield Service
	Registration Organization: Domain ID Shield Service CO., Limited
	Registration Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registration City: Hong Kong
	Registration State/Province: Hong Kong
	Registration Postal Code: 999077
	Registration Country: HK
	Registration Phone: +852.21581835
	Registration Phone Ext:
	Registration Fax: +852.30197491
	Registration Fax Ext:
	Registration Email: whoisprivacy@domainidshield.com
verification-services.info	Registration Name: Domain ID Shield Service
	Registration Organization: Domain ID Shield Service CO., Limited
	Registration Street: FLAT/RM A, 9/F SILVERCORP INTERNATIONAL
	TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONG
	KONG
	Registration City: Hong Kong
	Registration State/Province: Hong Kong
	Registration Postal Code: 999077
	Registration Country: HK
	Registration Phone: +852.21581835
	Registration Phone Ext:
	Registration Fax: +852.30197491
	Registration Fax Ext:
	Registration Email: whoisprivacy@domainidshield.com
youridentityactivity.world	Registry Registrant ID: REDACTED FOR PRIVACY
	Registrant Name: REDACTED FOR PRIVACY
	Registrant Organization: Domain Protection Services, Inc.
	Registrant Street: REDACTED FOR PRIVACY
	Registrant City: REDACTED FOR PRIVACY
	Registrant State/Province: CO
	Registrant Postal Code: REDACTED FOR PRIVACY
	Registrant Country: US
	Registrant Phone: REDACTED FOR PRIVACY
	Registrant Phone Ext: REDACTED FOR PRIVACY
	Registrant Fax: REDACTED FOR PRIVACY
	Registrant Fax Ext: REDACTED FOR PRIVACY
	abuse@name.com