



Created and distributed by the VeriSign iDefense Rapid-Response Team (RRT)

Analysis of Sinowal Malicious Code

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A VeriSign® iDefense® Rapid-Response Report

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1 Statement of Research

On July 3, 2007, (OMITTED) submitted a malicious code sample to VeriSign iDefense for analysis. This sample contained Torpig Trojan, which reportedly targets ABN AMRO bank sites. The client wants to identify behavioral characteristics of the samples submitted; all network traffic, sites impacted and browsers affected (if at all). Contact information for the client is below:

(OMITTED)

VeriSign iDefense validated that the sample submitted is a variant of the Sinowal or Torpig Trojan horse family. This is a well-known information stealing Trojan that targets many financials and is related to the Russian Business Network. There has been an ongoing, active law enforcement investigation regarding this family of code over the last year. VeriSign iDefense will coordinate with law enforcement and anti-virus security professionals to take appropriate post-action following the response.

This variant of Torpig performs actions similar to former variants of this malicious code family. Upon execution, it installs DLLs and injects SVCHOST to actively steal credentials as a user browses the Internet. An upload of stolen credentials occurs immediately.

2 Anti-Virus Scanning Results

The following results only serve as a guideline for identifying known malicious code or the degree of risk associated with a new threat that may be widely undetected by anti-virus software. Scan results may vary based upon specific engines or signature files used in a given scan instance. The following anti-virus programs detected the sample as shown:

Scan report of: ibm00001.dll

AntiVir	TR/PSW.Sinowal.M.6
Avast!	Win32:Sinowal-AM [Trj]
AVG	PSW.Ldpinch.IMA (Trojan horse)
BitDefender	Trojan.PWS.Sinowal.CS
Command	W32/Trojan.ATPF (destructive program)
eSafe	Win32.Sinowal.m
Ewido	Trojan.Sinowal.m
F-Secure	Trojan-PSW.Win32.Sinowal.m
F-Secure (BETA)	Trojan-PSW.Win32.Sinowal.m
Fortinet	suspicious
Fortinet (BETA)	suspicious
Ikarus	Trojan-Downloader.Win32.Small.ems
Kaspersky	Trojan-PSW.Win32.Sinowal.m
Nod32	Win32/PSW.Sinowal.Gen trojan
Panda	Suspicious file
Panda (BETA)	Suspicious file
QuickHeal	TrojanPSW.Sinowal.m
Rising	Trojan.PSW.LdPinch.fxj
Sophos	Mal/EncPk-T
Symantec (BETA)	Infostealer
VBA32	Trojan-PSW.Win32.Sinowal.m
WebWasher	Trojan.PSW.Sinowal.M.6
YY_A-Squared	Trojan-PSW.Win32.Sinowal.m

Scan report of: ibm00002.dll

AntiVir	TR/PWS.Sinowal.Gen
Avast!	Win32:Sinowal-AK [Trj]
AVG	PSW.Ldpinch.IMB (Trojan horse)
BitDefender	Trojan.PWS.Sinowal.CS
Command	W32/Trojan.ATEH (destructive program)
eSafe	Win32.Sinowal.m
Ewido	Trojan.Sinowal.m
F-Secure	Trojan-PSW.Win32.Sinowal.m
F-Secure (BETA)	Trojan-PSW.Win32.Sinowal.m
Fortinet	suspicious
Fortinet (BETA)	suspicious
Ikarus	Trojan-Downloader.Win32.Small.ems
Kaspersky	Trojan-PSW.Win32.Sinowal.m
Nod32	Win32/PSW.Sinowal.Gen trojan
QuickHeal	TrojanPSW.Sinowal.m
Rising	Trojan.PSW.LdPinch.fxj
Sophos	Mal/EncPk-T
Symantec	Infostealer
Symantec (BETA)	Infostealer

VBA32	Trojan-PSW.Win32.Sinowal.m
WebWasher	Trojan.PWS.Sinowal.Gen
YY_A-Squared	Trojan-PSW.Win32.Sinowal.m

Scan report of: ld_sun.exe

AntiVir	TR/FatObfus.U
Avast!	Win32:Sinowal-AQ [Trj]
AVG	PSW.Ldpinch.IMC (Trojan horse)
BitDefender	Trojan.FatObfus.U
Command	W32/Backdoor.ATRW
Dr Web	Trojan.DownLoader.20771
eSafe	Trojan/Worm [100] (suspicious)
Ewido	Trojan.Sinowal
F-Prot	W32/Backdoor.ATRW
F-Secure	Trojan-Downloader.Win32.Small.euh
F-Secure (BETA)	Trojan-Downloader.Win32.Small.euh
Fortinet	suspicious
Fortinet (BETA)	suspicious
Ikarus	Trojan-Downloader.Win32.Small.ems
Kaspersky	Trojan-Downloader.Win32.Small.euh
Nod32	Win32/PSW.Sinowal.Gen trojan
Panda	Suspicious file
Panda (BETA)	Suspicious file
QuickHeal	TrojanDownloader.Small.euh
Rising	Trojan.PSW.LdPinch.fxx
Sophos	Troj/Agent-FVS
Symantec	Backdoor.Trojan
Symantec (BETA)	Backdoor.Trojan
Trend Micro	TSPY_LDPINCH.ALF
Trend Micro (BETA)	TSPY_LDPINCH.ALF
VBA32	Trojan.DownLoader.20771
WebWasher	Trojan.FatObfus.U

3 Behavioral Analysis

Ld_sun.exe does the following, when executed within a lab environment:

Creates the following files:

c:\Program Files\Common Files\Microsoft Shared\Web Folders\ibm00001.dll
 Size: 73,629 bytes
 MD5: cefdcf1666dc748268dea5f714d7a0f3

C:\Program Files\Common Files\Microsoft Shared\Web Folders\ibm00002.dll
 Size: 58,114 bytes
 MD5: cf9a9dc54c9e480517d40b2989fd9aca

C:\WINDOWS\Temp\\$\$_2341233.TMP
 Size: 4 bytes
 MD5: 1036e3dddc89a4e68d8a33f3823a180e

C:\WINDOWS\Temp\\$\$_2341234.TMP
 Size: 37,088 bytes
 MD5: 5f6678d73dac7cf56934c658294ed1f4

C:\WINDOWS\Temp\\$b17a2e8.tmp
 Size: 0 bytes
 MD5: d41d8cd98f00b204e9800998ecf8427e

Creates or modifies the following Windows registry keys:

HKLM\SYSTEM\ControlSet001\Services\NtmlSvc\Parameters "ServiceDll"
 Data: C:\Program Files\Common Files\Microsoft Shared\Web Folders\ibm00001.dll
 HKLM\SYSTEM\CurrentControlSet\Services\NtmlSvc\Parameters "ServiceDll"
 Data: C:\Program Files\Common Files\Microsoft Shared\Web Folders\ibm00001.dll
 HKLM\SYSTEM\ControlSet001\Services\NtmlSvc "ErrorControl"
 Data: 00, 00, 00, 00
 HKLM\SYSTEM\ControlSet001\Services\NtmlSvc "ImagePath"
 Data: %SystemRoot%\System32\svchost.exe -k netsvcs
 HKLM\SYSTEM\ControlSet001\Services\NtmlSvc "ObjectName"
 Data: LocalSystem
 HKLM\SYSTEM\ControlSet001\Services\NtmlSvc "Start"
 Data: 02, 00, 00, 00
 HKLM\SYSTEM\ControlSet001\Services\NtmlSvc "Type"
 Data: 10, 01, 00, 00
 HKLM\SYSTEM\ControlSet001\Services\NtmlSvc\Enum "0"
 Data: Root\LEGACY_NTML SVC\0000
 HKLM\SYSTEM\ControlSet001\Services\NtmlSvc\Enum "Count"
 Data: 01, 00, 00, 00
 HKLM\SYSTEM\ControlSet001\Services\NtmlSvc\Enum "NextInstance"
 Data: 01, 00, 00, 00
 HKLM\SYSTEM\CurrentControlSet\Services\NtmlSvc "ErrorControl"

Data: 00, 00, 00, 00
 HKLM\SYSTEM\CurrentControlSet\Services\NtmlSvc "ImagePath"
 Data: %SystemRoot%\System32\svchost.exe -k netsvcs
 HKLM\SYSTEM\CurrentControlSet\Services\NtmlSvc "ObjectName"
 Data: LocalSystem
 HKLM\SYSTEM\CurrentControlSet\Services\NtmlSvc "Start"
 Data: 02, 00, 00, 00
 HKLM\SYSTEM\CurrentControlSet\Services\NtmlSvc "Type"
 Data: 10, 01, 00, 00
 HKLM\SYSTEM\CurrentControlSet\Services\NtmlSvc\Enum "0"
 Data: Root\LEGACY_NTMLSVC\0000
 HKLM\SYSTEM\CurrentControlSet\Services\NtmlSvc\Enum "Count"
 Data: 01, 00, 00, 00
 HKLM\SYSTEM\CurrentControlSet\Services\NtmlSvc\Enum "NextInstance"
 Data: 01, 00, 00, 00
 HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\SvcHost "netsvcs"

Injects SVCHOST to run silently in memory.

Performs the following network activity:

Lenicnt.info is a remote server for hosting files downloaded by the Trojan. Cgtculj.com is a stolen credentials drop site. 194.146.207.133, in the same net block as the former two domains, also communicates with the Trojan.

hxxp://lenicnt.info/ld/sun/ld.php?n=su1
 (194.146.207.220)
 Downloads an executable from the su1 path.

hxxp://lenicnt.info/ld/sun/ld.php?n=su2
 Downloads a second executable from the su2 path.

hxxp://lenicnt.info/ld/sun/show.php?id=F0AF9D1CB71B28F635023C7DC01C435B&t=1&b=&v=0
 User-Agent: MSID [F0AF9D1CB71B28F635023C7DC01C435B][sun|108
 Assigns and uploads a unique ID for the infected computer, using a unique User-Agent "MSID" string.
 Detected by Bleeding Threats rule 2003590, BLEEDING-EDGE TROJAN Downloader-5265/Torpig/Anserin/Sinowal Unique UA (MSID [...]).

hxxp://cgtculj.com/XFsQa5/cWYGUH5xMmAQcWcFpN4T5dUDUjEwIBSmUNJikAPFV1E1Q1KVfmPH
 RMRVYhFBK5VxFMM3BVEQNFehM9PAVyDXyUjkkGvJjKQdXBTpGUPIXD1o2cUUcA0V5BXBiEQYAYB
 ciNCcn03BxBhNGJxUVzFFRcmQxYHUHPXJyQyJ+d1ow
 (194.146.207.18)
 User-Agent: MSID [F0AF9D1CB71B28F635023C7DC01C435B][sun|108
 The Trojan posts encoded data to remote server using unique ID. The server responds with "okn" to confirm receipt of data. This is the primary drop site for stolen information.

hxxp://194.146.207.133.
 Communicates with the Trojan and uses the same MSID identifier.

4 Information Stealing Activity

This Trojan family steals information from browsers, immediately uploading data to a remote server. VeriSign iDefense attempted to prompt the Trojan to steal information and play man in the middle to get additional data by infecting a lab computer and visiting several sites.

This Trojan does target multiple ABN ANBRO servers for information theft. In limited lab tests, VeriSign iDefense confirmed that the Trojan does attempt to communicate with a remote command and control (C&C) server, but did not perform any man-in-the-middle phishing attacks when attempting to log on with invalid credentials to the banking site. A list of trigger strings found in the configuration files does not contain ABN AMRO strings. However, multiple domains affiliated with ABN AMRO do exist in the configuration file for the Trojan. It is likely that the Trojan is designed to steal information or interact with a legitimate session following authentication to the site.

A decryption of the Trojan configuration files shows the following targeted ABN AMRO and subsidiary sites:

1. abnamro.an
2. abnamro.be
3. abnamro.ch
4. abnamro.com
5. abnamro.com.sg
6. abnamro.lu
7. abnamro.nl
8. abnamroprivatebanking.com
9. www.singapore.insight.abnamroprivatebanking.com
10. abnamro
11. abnamro.com
12. lasallebank.com
13. vip.lasallebank.com
14. onlinebanking.lasallebank.com
15. lasallefederal
16. mybank.bybank.it
17. wwws.bancoreal.com.br
18. bancoreal.com.br
19. cashproweb.com
20. cashproweb.com
21. cashproweb

The Trojan contains several strings related to potential trigger words for information theft:

- login
- pswd
- userid
- accountnumber
- passwd
- username
- pop3

Below are examples of how the Trojan manipulates and then steals sensitive information from the client.

eBay Theft

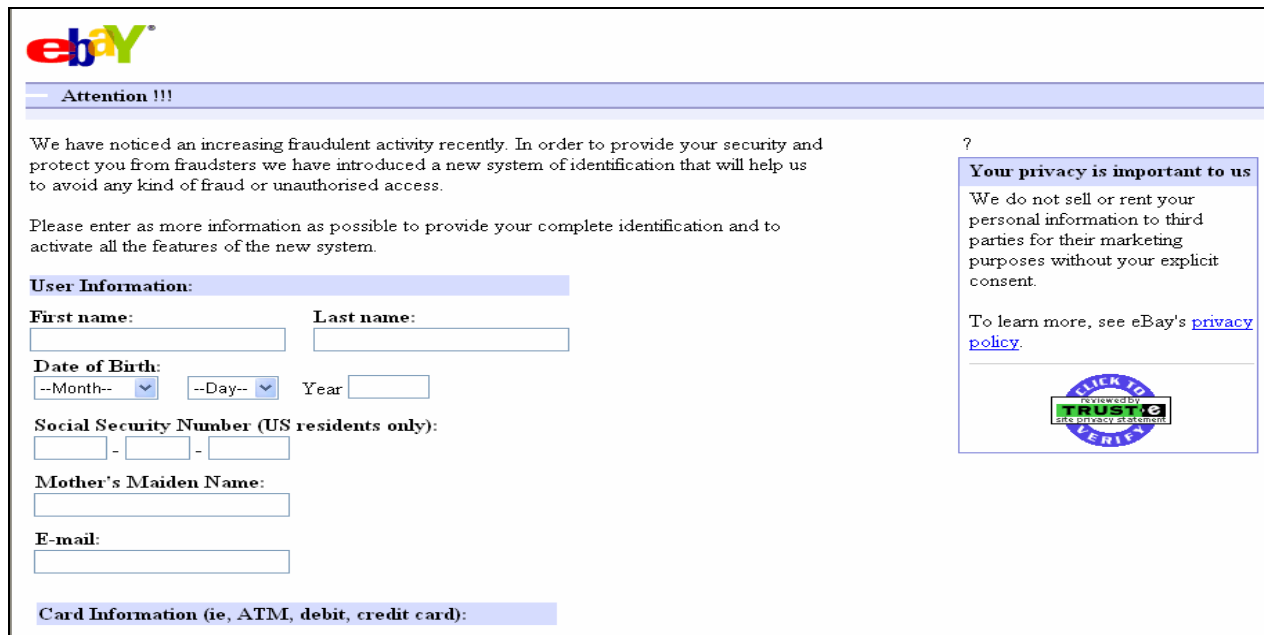
When attempting to log into eBay without legitimate credentials, red text is posted to the page indicating that the information is not valid and to try again. Below is an example of this legitimate error message:

Legitimate eBay Error Prompts the User to Log in Again.

If this variant of Torpig is running on a computer it works as a man in the middle on the local computer to hijack the normal warning message. Instead of a normal error screen, the Trojan creates a page claiming that there is an increase in fraudulent activity, prompting the user to enter the following information:

- First Name
- Last Name
- Date of Birth
- Social Security Number
- Mother's Maiden Name
- E-Mail
- Credit Card Number
- Card Expiration Date
- Card CVC2
- ATM Pin
- Banking Account Number
- Routing Number

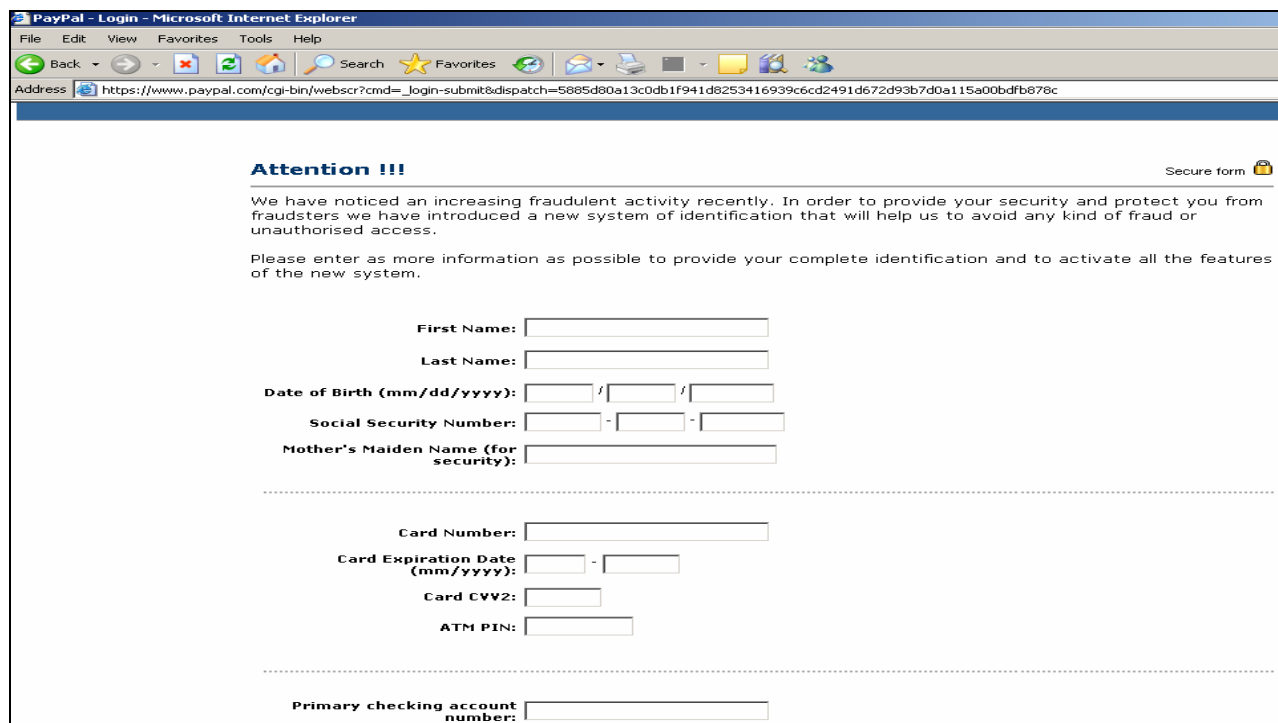
The image below shows how the phishing page, created by the Torpig Trojan, appears:



Torgpig plays Man in the Middle to Display a Phishing Page to the User.

PayPal Theft

Below is an image of the phishing page displayed by the Trojan when visiting PayPal:



The Trojan Interacts with a PayPal Session to Phish the User.

Bank of America Theft

Below is an image of the phishing page displayed by the Trojan when visiting Bank of America:

Bank of America | Online Banking | Security Confirmation - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://sitekey.bankofamerica.com/sas/signon.do>

Security Confirmation

To continue with Online Banking, please provide the information requested below.

Account Password

ATM, Check Card or Credit Card Number:
(16 digits, no dashes or spaces.)

Card Expiration Date: /
(mm / yyyy)

ATM or Check Card CVV2:
(3 digits)

ATM or Check Card PIN:
(4 to 6 digits)

Social Security Number (SSN): - -
(xxx-xx-xxxx)

Mother's maiden name:

Date Of Birth: / /
(mm/dd/yyyy)

Telephone banking password:

Select your SiteKey Challenge Questions and give answers for them for security reasons :

What is your father's middle name?

In what city was your mother born? (Enter)

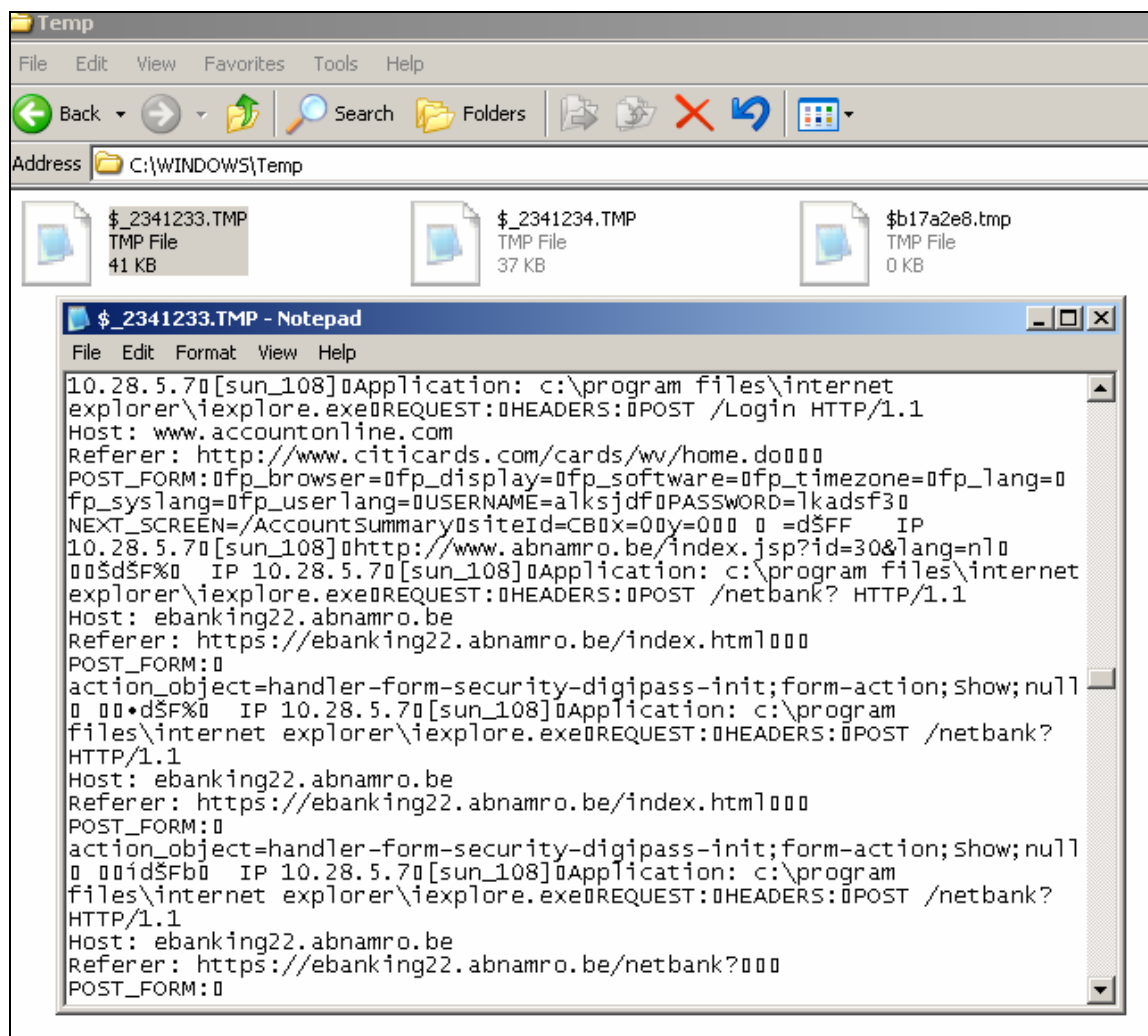
What is your maternal grandmother's first

Microsoft Internet Explorer

Please enter a valid "Card Number".

The Trojan Interacts with a Bank of America Session to Phish the User.

Stolen credentials are uploaded in real-time, as shown in the image below. A TMP file is used to store stolen credentials on the local computer. Additional TMP files are used to store encrypted URLs targeted by the Trojan. In this instance, \$ _2341233.TMP contains stolen data as displayed in the image below:



A TMP file Stores Stolen Data that is Immediately Uploaded to a Drop Site.

5 Targets of Attacks

Two TMP files created by the Trojan are used for storage of encrypted domains targeted by the Trojan, command and control servers, and e-mail accounts potentially related to theft of data or spam. VeriSign iDefense successfully decrypted the configuration data from TMP files as shown in Appendix A.

C&C servers for this Trojan are as follows:

- kolipso.info
- 194.146.207.133
- ret9unj.com
- alzan.info
- 194.146.207.18
- tsforme.com
- useforme.com

All of the above domains related to this attack through server or domain association, except for alzan.info (194.146.207.17). WHOIS information for this domain is below:

Domain ID:D17867544-LRMS
Domain Name:ALZAN.INFO
Created On:17-May-2007 11:32:36 UTC
Last Updated On:25-May-2007 22:36:39 UTC
Expiration Date:17-May-2008 11:32:36 UTC
Sponsoring Registrar:EstDomains, Inc. (R295-LRMS)
Status:CLIENT HOLD
Status:CLIENT TRANSFER PROHIBITED
Status:TRANSFER PROHIBITED
Registrant ID:DI_6466444
Registrant Name:Hugo Grandi
Registrant Organization:N/A
Registrant Street1:Gitton st/15
Registrant Street2:
Registrant Street3:
Registrant City:Washington
Registrant State/Province:Washington
Registrant Postal Code:45879
Registrant Country:US
Registrant Phone:+784.1124998
Registrant Phone Ext.:
Registrant FAX:
Registrant FAX Ext.:
Registrant Email:hogo_g@gmail.ru
Admin ID:DI_6466444
Admin Name:Hugo Grandi
Admin Organization:N/A
Admin Street1:Gitton st/15
Admin Street2:
Admin Street3:

Admin City:Washington
Admin State/Province:Washington
Admin Postal Code:45879
Admin Country:US
Admin Phone:+784.1124998
Admin Phone Ext.:
Admin FAX:
Admin FAX Ext.:

Admin Email:hogo_g@gmail.ru
Billing ID:DI_6466444
Billing Name:Hugo Grandi
Billing Organization:N/A
Billing Street1:Gitton st/15
Billing Street2:
Billing Street3:
Billing City:Washington
Billing State/Province:Washington
Billing Postal Code:45879
Billing Country:US
Billing Phone:+784.1124998
Billing Phone Ext.:
Billing FAX:
Billing FAX Ext.:

Billing Email:hogo_g@gmail.ru
Tech ID:DI_6466444
Tech Name:Hugo Grandi
Tech Organization:N/A
Tech Street1:Gitton st/15
Tech Street2:
Tech Street3:
Tech City:Washington
Tech State/Province:Washington
Tech Postal Code:45879
Tech Country:US
Tech Phone:+784.1124998
Tech Phone Ext.:
Tech FAX:
Tech FAX Ext.:

Tech Email:hogo_g@gmail.ru
Name Server:NS1.ALZAN.INFO
Name Server:NS2.ALZAN.INFO

It is possible that this domain, newly registered in May 2007, is a future C&C server to be used as a backup or upgrade in the future.

Information within the configuration files used by the Trojan are grouped by geography.

6 WHOIS Data for Remote Websites

lenicnt.info [194.146.207.220] and cgtculj.com [194.146.207.18] are the primary domains used to host malicious code and interact with the Trojan. Spamhaus blacklist both of these IP addresses for the primary domains. Data also uploads to 194.146.207.133. Bleeding Threats signature that detects this activity is 2400000.

6.1 *lenicnt.info*

WHOIS information on lenicnt.info, hosted out of Panama but registered to a Russian e-mail address, is below:

Domain ID:D17909755-LRMS
Domain Name:LENICNT.INFO
Created On:20-May-2007 14:04:28 UTC
Last Updated On:20-May-2007 14:31:38 UTC
Expiration Date:20-May-2008 14:04:28 UTC
Sponsoring Registrar:EstDomains, Inc. (R295-LRMS)
Status:CLIENT TRANSFER PROHIBITED
Status:TRANSFER PROHIBITED
Registrant ID:DI_6498411
Registrant Name:Petr Simonov
Registrant Organization:N/A
Registrant Street1:Starokrepostnaya 12/1
Registrant City:Kyiv
Registrant State/Province:Kyïv
Registrant Postal Code:42045
Registrant Country:UA
Registrant Phone:+050.4568745
Registrant Email: weksya@gmail.ru
Admin ID:DI_6498411
Admin Name:Petr Simonov
Admin Organization:N/A
Admin Street1:Starokrepostnaya 12/1
Admin City:Kyiv
Admin State/Province:Kyïv
Admin Postal Code:42045
Admin Country:UA
Admin Phone:+050.4568745
Admin Email: weksya@gmail.ru
Billing ID:DI_6498411
Billing Name:Petr Simonov
Billing Organization:N/A
Billing Street1:Starokrepostnaya 12/1
Billing City:Kyiv
Billing State/Province:Kyïv
Billing Postal Code:42045
Billing Country:UA

Billing Phone:+050.4568745

Billing Email: weksya@gmail.ru

Tech ID:DI_6498411

Tech Name:Petr Simonov

Tech Organization:N/A

Tech Street1:Starokrepostnaya 12/1

Tech City:Kyiv

Tech State/Province:Kyïv

Tech Postal Code:42045

Tech Country:UA

Tech Phone:+050.4568745

Tech Email: weksya@gmail.ru

Name Server:NS1.LENICNT.INFO

Name Server:NS2.LENICNT.INFO

This domain has had several IP changes in 2007:

- 194.146.207.28
- 194.146.207.29
- 194.146.207.129
- 194.146.207.220

26 domains are currently associated with this IP, which may be useful in blacklisting:

- Dinacnt.info
- Domicnt.com
- Empacnt.info
- Grigcnt.info
- Grizicnt.com
- Hoicnt.info
- Joimcnt.net
- Konicnt.com
- Lenicnt.info
- Nocicnt.com
- Soncnt.info
- Unicnt.info
- Gifcncnt.com
- Adencnt.info
- Hasicnt.info
- Juidacnt.info
- Lipocnt.com
- Mircnt.net
- Nisocnt.net
- Rikocnt.info
- Sogcnt.info
- Tipocnt.com
- Uravcnt.info
- Wetricnt.info
- Xifcncnt.com
- Yektcnt.info

Nmap Scan of ip-207-18.nevacon.net [194.146.207.18] (up)

<u>PORT</u>	<u>STATE</u>	<u>SERVICE</u>
21	open	ftp
22	open	ssh
80	open	http
873	open	rsync

6.2 *cgtculj.com*

WHOIS information on cgtculj.com, also hosted out of Panama and registered to a Russian e-mail address, is below:

Registration Service Provided By: YEKT LTD.

Contact: +007.9222026447

Domain Name: CGTCULJ.COM

Registrant:

N/A

Ivanoa Alex (hogo_ [g@gmail.ru](mailto:hogo_g@gmail.ru))

Lesi Ukraynki 15/7

Lviv

Lviv Oblast,25897

UA

Tel. +093.4587542

Creation Date: 30-Jun-2007

Expiration Date: 30-Jun-2008

Domain servers in listed order:

ns2.cgtculj.com

ns1.cgtculj.com

Administrative Contact:

N/A

Ivanoa Alex (hogo_ [g@gmail.ru](mailto:hogo_g@gmail.ru))

Lesi Ukraynki 15/7

Lviv

Lviv Oblast,25897

UA

Tel. +093.4587542

Technical Contact:

N/A

Ivanoa Alex (hogo_ [g@gmail.ru](mailto:hogo_g@gmail.ru))

Lesi Ukraynki 15/7

Lviv

Lviv Oblast,25897

UA

Tel. +093.4587542

Billing Contact:

N/A

Ivanoa Alex (hogo_@gmail.ru)

Lesi Ukraynki 15/7

Lviv

Lviv Oblast,25897

UA

Tel. +093.4587542

Status:ACTIVE

This domain has only two IP changes:

- 82.98.235.50
- 194.146.207.18

20 domains are currently associated with this IP, which may be useful in blacklisting:

- Bestnetserver.org
- Dau8aym.com
- Gjxuunj.com
- Haygunj.com
- Jimmculj.com
- Kcc5aym.com
- Khcvaym.com
- Ldd6aym.com
- Lddpaym.net
- Qji5unj.biz
- Rajjunj.com
- Reniunj.com
- Ret9unj.com
- Sabkunj.com
- Thleunj.com
- Ucm7aym.com
- Vjniunj.com
- Werinj.com
- Xiprid81.info
- Ycqqunj.com
- Cgtculj.com

Nmap Scan of ip-207-220.nevacon.net (194.146.207.220) (up)

PORT	STATE	SERVICE	
21	tcp	open	ftp
22	tcp	open	ssh
53	tcp	open	domain
80	tcp	open	http
443	tcp	open	https

6.3 194.146.207.133

WHOIS information on 194.146.207.133, also hosted out of Panama and but NOT registered to a Russian e-mail, is below:

```
inetnum: 194.146.204.0 - 194.146.207.255
netname: NEVSKCC-NET
descr: NEVACON LTD
country: PA
org: ORG-CCL18-RIPE
admin-c: JB3569-RIPE
tech-c: TR1783-RIPE
status: ASSIGNED PI
mnt-by: RIPE-NCC-HM-PI-MNT
mnt-lower: RIPE-NCC-HM-PI-MNT
mnt-by: NEVSKCC-MNT
mnt-routes: NEVSKCC-MNT
mnt-domains: NEVSKCC-MNT
remarks: *****
remarks: * Pay attention *
remarks: * Any communication sent to email different *
remarks: * from the following will be ignored! *
remarks: * Any abuse reports, please send them to *
remarks: * abuse@nevacon.net *
remarks: *****
source: RIPE # Filtered
```

```
organisation: ORG-CCL18-RIPE
org-name: NEVACON LTD
org-type: OTHER
address: Republic of Panama
phone: +1 401 481 5514
e-mail: support@nevacon.net
admin-c: JB3569-RIPE
tech-c: TR1783-RIPE
mnt-ref: NEVSKCC-MNT
mnt-by: NEVSKCC-MNT
source: RIPE # Filtered
```

```
person: Josh Buslow
address: Republic of Panama
phone: +1 401 481 5514
e-mail: ripe@nevacon.net
nic-hdl: JB3569-RIPE
mnt-by: NEVSKCC-MNT
source: RIPE # Filtered
```

```
person: Tony Root
address: Republic of Panama
```

phone: +1 401 481 5514
e-mail: support@nevacon.net
nic-hdl: TR1783-RIPE
mnt-by: NEVSKCC-MNT
source: RIPE # Filtered

route: 194.146.204.0/22
descr: NEVAcon LTD
origin: AS41731
mnt-by: NEVSKCC-MNT
source: RIPE # Filtered

A reverse-IP on this reveals the following websites:

- Exbdvshv.net
- Jitwtvbj.com
- Kolipso.info
- Tsforme.com
- Useforme.com

The above domains are all hosted on one server, 194.146.207.133, in Panama registered to a Russian e-mail address. This is the same server as is used to collect stolen information in this attack. WHOIS information varies for these last domains, but are similar as shown with the first domain queried:

Registration Service Provided By: YEKT LTD.
Contact: +007.9222026447

Domain Name: EXBDVSHV.NET

Registrant:

N/A

Ivanoa Alex (hogo_@gmail.ru)
Lesi Ukraynki 15/7
Lviv
Lviv Oblast,25897
UA
Tel. +093.4587542

Creation Date: 12-Jun-2007
Expiration Date: 12-Jun-2008

Domain servers in listed order:

ns2.exbdvshv.net
ns1.exbdvshv.net

Administrative Contact:

N/A

Ivanoa Alex (hogo_@gmail.ru)
Lesi Ukraynki 15/7
Lviv

Lviv Oblast,25897
UA
Tel. +093.4587542

Technical Contact:

N/A

Ivanoa Alex (hogo_g@gmail.ru)
Lesi Ukraynki 15/7
Lviv
Lviv Oblast,25897
UA
Tel. +093.4587542

Billing Contact:

N/A

Ivanoa Alex (hogo_g@gmail.ru)
Lesi Ukraynki 15/7
Lviv
Lviv Oblast,25897
UA
Tel. +093.4587542

Status:ACTIVE

Nmap Scan of ip-207-133.nevacon.net [194.146.207.133] (up)

<u>PORT</u>	<u>STATE</u>	<u>SERVICE</u>
21 tcp	open	ftp
22 tcp	open	ssh
80 tcp	open	http
443 tcp	open	https

7 Concluding Comments

The 194.146.207.18 address used in this attack for communication with an infected computer is the same IP used in a recent MPack attack. The large "Italian MPack" attack leveraged multiple sites, including 194.146.207.18. In that case 194.146.207.18 served as a redirector to a remote hostile MPack attack site. In short, compromised sites hosted an IFrame link that pointed to one of several redirector sites, including 194.146.207.18, which then redirects the browser to an MPack attack site.

Rock Phish, an infamous group responsible for thousands of phishing attacks daily, uses configuration files that leverage the same encoding technique as seen in this Torpig attack. The encoding mechanism is a simple substitution cipher with a unique structure. Each configuration file starts with a C&C server component followed by configuration data like e-mail addresses for phishing or targeted URLs for information theft. It is highly likely that the same individual or group is responsible for both attacks using the same basic techniques.

The Russian Business Network (RBN) has apparently expanded their net block operations to include the 194.146.204-207.* net block. This entire net block is routed through the original RBN net block. The image below shows a trace route going through the original RBN net block.

```
Tracing route to ip-207-18.nevacon.net [194.146.207.18]
over a maximum of 30 hops:
  1  <1 ms  <1 ms  <1 ms  192.168.0.1
  2   3 ms   5 ms   4 ms  [redacted]
  3  67 ms   9 ms   9 ms  [redacted]
  4  27 ms   8 ms   8 ms  64-128-89-129.static.twtelecom.net [64.128.89.129]
9]
  5   7 ms   7 ms   8 ms  66.192.248.209
  6  89 ms  25 ms  23 ms  dist-02-ge-3-3-0-1.sttl.twtelecom.net [66.192.248.209]
8.35]
  7  85 ms  25 ms  23 ms  66.192.248.25
  8 109 ms 142 ms 58 ms  ge3-0.cr02.sea01.pccwbtn.net [198.32.180.13]
  9 174 ms 216 ms 175 ms rbn.fe3-29.br02.ldn01.pccwbtn.net [63.218.52.114]
]
10 298 ms 256 ms 257 ms gbit-eth-34-uk.sbtel.com [81.95.156.34]
11 311 ms 269 ms 261 ms ip-156-66.sbtel.com [81.95.156.66]
12 249 ms 297 ms 230 ms ip-207-18.nevacon.net [194.146.207.18]
```

Trace route reveals a Connection to the Original RBN Net Block.

8 Appendix A – Decrypted Configuration Data

Data decrypted from TMP files, used by the Trojan for configuration information, is below:

ozr1111137088•••••ò•••••]•W•••••|•••••5N2341234.E\A•••••
 •5N2341233.E\A•••••kolipso.info•••••194.146.207.133•3••••ret9unj.com•3••••alzan.info•3••••194.146.207
 .18•••••tsforme.com•••••useforme.com•••••

Ubcaixanet-particulares.bancaixaageral.es

apobank.de
 www.centralnet.com.ve

alahlionline.com

sabbnet.com
 brokerjet.ecetra.com
 logon.egg.com
 bcaixanet-empresas.bancaixaageral.es
 www.linksimprese.sanpaoloimi.com

citibank.de
 home.cbonline.co.uk
 home.ybonline.co.uk

bibm.ad
 aba.bsa.ad
 db-direct.deutsche-bank.es
 www.hanzanet.lv

bancochileus.com
 www.empresas.bancochile.cl
 www.winbank.bg
 online.pcbanker.com
 online.nbad.com
 www.ulsterbankanytimebanking.ie

frostbank.com
 www.cashanalyzer.com

bancatoscana.it
 www.santander.cl
 www.supremecard.com
 leasing.resurs.se
 frostbank.com
 auth.umb.com
 mandtbank.com
 e-bank.iabank.bg
 internetbank.swedbank.se

egnatiateller.egnatiabank.gr

itau.cl

bankieren.rabobank.nl

www.hanzanet.lv

secure.ikanobanken.se

www.officebanking.cl

online.westeastbank.bg

online.biochim.com

internetbanken.gripen.se

citicorp.com

ebb.ubb.bg

online.rbb.bg

online.bulbank.bg

u-net.unionbank.bg

online.ccbank.bg

e-postbank.bg

mwb.municipalbank.bg

i-bank.hebros.bg

e-fibank.bg

csb.nasbank.bg

rbweb.corpbank.bg

ingonline.bg

ebank.ibank.bg

dskdirect.bg

.bbobank.ch

.bcge.ch

.bcvs.ch

.dbs.com

.directnet.com

.forsakringskassan.se

.inetbank.net.au

.netbanking.ch

.nsbank.com

.online.citibank.cz

.pictet.com

.plusgirot.se

.postbanken.no

.sampo.fi

.selfnet.ch

.snet.lu

.sparebank1.no

.vv.sebank.se

>cashman>

>cmserver

440strand.com

abcbrazil.com.br

abnamro.an

abnamro.be

abnamro.ch

abnamro.com

abnamro.com.sg

abnamro.lu

abnamro.nl

abnamroprivatebanking.com

advisernet.com.au

appliedcardbank.com

arubabank.com

bac.net

bancafe-pa.com

bancnetonline.com

bancnetvan.net

banco-general.com

bancocuscatlan.com

bancofar.es

bancopostaonline.poste.it

banistmo.com

bankenverband.li

banking.
.ch

banking.agkb.ch

banking.bankofscotland.co.uk

bankline.natwest.com

ban`uedeluxembourg.com

ban`uedubois.com

banvivienda.net

barclays.com

barclays.es

bcp.ml.com

bcr.ro

bgbank.dk

bhw.de

bib.hsbc.com

bicsapan.com

bnpparibas.com

bnpparibas.lu

bob-w.firstcitizens.com

bob-w.ironstonebank.com

bpiexpresslink.com

bpitrade.com

bradesco.com.br

bradescori.com.br

bred.fr

business.fokus.no

business.memberdirect.net

businessbillpay-e.com

businessonline

businessonline.com

butterfieldonline.ky

caisse-epargne.fr

cajamar.es

capitalone.com

carnegiebanking.com

cashproweb.com

cey-ebanking.com

cgrehb4.cd.citibank.gr

channel-e.com.my

chinatrust.com.ph

cic.fr

citibank.be

citibank.com.au

citibank.com.hk

citibank.com.ph

citibank.com.pl

citibank.es

citibusinessonline.da-us.citibank.com

citidirect-eb.citicorp.com

clariden.com

claridenleu.com

cmb-home.com

cmserver

commercebank.com

commercialbanking

corneronline.ch

cortalconsors.de

cortalconsorsvillage.lu

cpwportal

credicorpbank.com

creditmutuel.fr

ctreporter.coletaylor.com

cz.unicreditbanking.net

danskebank.dk

danskebank.se

decu.com

deltabank.net

dexia.be

dhbbank.com

dnbnor

dnbnor.no

dollarbank.com

e-familybnl.it

e-private.lu

eastwestbanker.com

ebank.emporiki.gr

ebank.hsbc.co.uk

ebank.hsbc.com.hk

ebankig.bov.com

ebanking-services.com

ebanking.bov.com

ebanking.millenniumbank.gr

ebc1961

ecashman

edb.com

egnatiateller.egnatiabank.gr

exact4web

fibancmediolanum.es

fiihg.com

fineco.it

firstambank.com

fiservsa4.com

fortisban`ue.lu

frostbank.com

gbw

.it

gemoneybank.se

globalbank.com.pa

grupomulticredit.com

handelsbanken.se

hellenicnetbanking.com

homebank.nbg.gr

hp
.first-direct.com

hsbc.com.sg

hvtiriac.ro

ing.lu

ingbank.nl

insularlife.com.ph

internationalbanking.barclays.com

iurisbank.com

jobtoasterspain.com

juliusbaer.com

kasweb.com

kaupthing

kb24.pl

kbbanki.is

kbconline.kbc.be

lasallebank.com

latpro.com

leumi.ro

login.hsbc.com

loyalbank.com

mandtbank.com

metrobankdirect.com

mitnykredit.dk

mlp.de

mmgbank.com

mpos.it

mygottardo.com

mystreetscape.com

navyfcu.org

net.hsbc.com

netbank.edb.com

nettbank.fokus.no

nfbconnect.com

nordea.dk

ntrs.com

offshore.hsbc.com

onlineserv

onlinetreasurymanager

paypal.com

pkointeligo.pl

portalbank.no

postbanken.no

poste.it

primerempleo.com

privatebanking.info

produbanco.com

pushinfo.com

rabobank.nl

raiffeisen.hu

raiffeisen.lu

raiffeisendirect.ch

redfcu.org

reuschel.com

robecodirect.nl

ruralvia.com

sampo.fi

sanostra.es

sebank.se

secure.lcf-rothschild.lu

secureinternetbank.com

sgbt.lu

skandiabanken.no

snet.lu

sparebank1.no

staalbankiers.nl

standardchartered.com.hk

stgeorgesbank.com

surepayroll.com

towerbank.com

trabajo.org

treasurydirect.gov

trustweb.com

uae.hsbc.com

ucpb.com

unicaja.es

unionbankph.com

uno-e.com

vault.melloninvestor.com

vip.lasallebank.com

vr-
ebanking.de

webcashmgmt

wellsoffice.wellsfargo.com

a.photofile.ru

access.imb.com.au

accounts.key.com

achpayments.wachovia.com

allianceach.com

amdirect.ambg.com.my

areasegura.banif.es

asp2.paybillag.com

auth4.jpmorgan.com

authzone.virtualbank.com

b2b.ccb.cn

banca.cajaen.es

bancae.bancoetcheverria.es

bancae.caixapenedes.com

bancainternet.bancocredicoop.coop

bancaonline.openbank.es

bancolombia.olb.todo1.com

banesnet.banesto.es

bank

.netbanking.ch

banking.

.ch

banking.

sparkasse

.de

banking.1822direkt.com

banking.bankofscotland.co.uk

banking.bcju.ch

banking.bdg.ch
banking.bekb.ch
banking.bekbnet.ch
banking.berliner-bank.de
banking.berliner-sparkasse.de
banking.bw-bank.de
banking.degussa-bank.de
banking.firsttennessee.
banking.ing-diba.de
banking.nordlb.de
banking.oberbank.de
banking.ospa.de
banking.postbank.de
banking.privatbank.at
banking.raiffeisen.at
banking.santander.de
banking.tkb.ch
banking.uboc.com
banking.us.hsbc.com
bankingportal.
.de
bankingportal.kreissparkassealtenkirchen.de
bankingportal.ksk-birkenfeld.de
bankingportal.kskbitburg-pruem.de
bankingportal.naspa.de
bankingportal.sparkasse-ger-kandel.de
bankingportal.sparkasse-rhein-haardt.de
banknet.columbiariverbank.com
bb.ocbc.com
bb24.csob.cz
bbmy.ocbc.com
bbv.webank.it
bcnet.bcocontinental.com
bireysel.hsbc.com.tr
brokerage.bankingonline.de
brokerage.comdirect.de
brokerage.lbbw.de
busey.com
business.memberdirect.net
business.nationalirishbank.ie
businessbanking
.tdcommercialbanking.com
businessnet.ba-ca.com
businessonline.huntington.com
caixadirecta.cgd.pt
canada-connexis.bnpparibas.com
caonline.credito-agricola.pt
carenet.fnfismd.com
carnegiebanking.com
carnet.cajarioja.es
cashmanagement.firstambank.com

cashproweb.com
cbf.cd.citibank.fr
chaseonline.chase.com
chsec.wellsfargo.com
cib.ebanking-services.com
cib.ibanking-services.com
citibusinessonline.da-us.citibank.com
citidirect-eb.citicorp.com
client.manulifebank.com
cn.bochk.com
co.caixabank.fr
coma.comdirect.de
communitybankonline.bankofamerica.com
connex.bdc.ca
corporate-internet-banking.dbs.com
csfb.com
cspehb
.cd.citibank.es
ctm.\$3.com
cukehb
.cd.citibank.co.uk
digibanker.securitybank.com
direct.bankofamerica.com
directnet.dexia.be
directnetbusiness.dexia.be
UXBPS]TU-citibusinessonline.da-us.citibank.com
e-bank.wuestenrot.de
e-banking.eave.com
e-first.swissfirst.ch
easylink.bankofbermuda.com
eb2.dexia.sk
ebaer.juliusbaer.com
ebancoval.bancoval.es
ebank.sghambros.com
ebankas.sampo.lt
ebanker.arabbank.com.au
ebanking.bawag.com
ebanking.bov.com
ebanking.dresdner-bank.lu
ebanking.easybank.at
ebanking.hangseng.com
ebanking.nationalirishbank.ie
ebanking.spardabank-vi.co.at
ebanking.whbhk.com
ebssl.unibanka.sk
ecash.tcbk.com
ecashmanager.tdbanknorth.com
empresas.ebankinter.com
empresas.gruposantander.es
enterprise1.openbank.com
enterprise2.openbank.com

entreprises.secure.lcl.fr
eplusgiro.plusgirot.se
essg.wachovia.com
est3.webcashgmt.com
esube.oyakbank.com.tr
esube.teb.com.tr
etimebanker.bankofthewest.com

express.\$3.com
express.bancoaliado.com
extra.hvb.hu
extranet.banesto.es
fastbanking.bancpost.ro
ff
.photofile.ru
fhbpartner.fhb.hu
finanzportal.fiducia.de
flagship
.vanguard.com
fnc.asbbank.co.nz
gestionprivee.lcf-rothschild.fr
gfs.nb.se
girolink.plusgirot.se
girovision.plusgirot.se
global1.onlinebank.com

bam.it
hbnet
.cedacri.it
hbsrv.patagoniaebank.com.ar
hbsrv.pcbanking.hsbc.com.ar
heimabanki.spar.is
home
hu.cbol.citibank.hu
homebanking.axa.be
homebanking.bpn.pt
homebanking.cariparma.it
homebanking.sskm.de
hvb.hu
i-pank.krediidipank.ee
iata.bankguay.com
ib
.npbs.co.uk
ib.bigsky.net.au
ib.brom.ro
ib.cbonline.co.uk
ib.national.com.au
ib.nbonline.co.uk
ib.slsp.sk
ib.vub.sk
ib.ybonline.co.uk

ib24.csob.cz
ibank.barclays.co.uk
ibank.cahoot.com
ibank.communityfirst.com.au
ibank.internationalbanking.barclays.com
ibank.privatbanka.sk
ibl
.netbanka.cz
ibs.internetbanka.cz
ibs.luba.sk
ibs.pnb.com.ph
ibs.rb.cz
ibssl.istrobanka.sk
icabanken.ica.se
ihb.
.ch
imprendo-a.unicreditbanca.it
inba-html.glk.ch
inba.
.ch
inba.aikb.ch
inba.bcf.ch
inbank.bipielle.it
inetbnkp.adelaidebank.com.au
infobank.creditmaritime.com
intbank.finansbank.com.tr
internet-banking.dbs.com.sg
internet724.vakifbank.com.tr
internetbank.budapestbank.hu
internetbank.fsb.se
internetbank.owkb.ch
internetbanken.gripen.se
internetbanken.sparbankenfinn.se

aib.ie
internetbanking.firstcaribbeanbank.com
internetbanking.friuladria.it
internetbanking.gad.de
internetbanking.suncorpmetway.com.au
internetsube.yapikredi.com.tr
intgold.com
investing.schwab.com
is2.cuviewpoint.net
isube.albarakaturk.com.tr
isube.asyafinans.com.tr
isube.disbank.com.tr
isube.fortis.com.tr
its.bochk.com
kbconline.kbc.be
kurumsal.hsbc.com.tr
lbbwebclient.lehmanbank.com

linea.davivienda.com
linthbanking.banklinth.ch
lo
.lacaixa.es
login.fidelity.com
login.hsbc.com
login.mystreetscape.com
logon.rhbbank.com.my
mattweb.cfefcu.com
matweb00.solidario.ec
mcw.airforcefcu.com
meine.deutsche-bank.de
melloninvestor.com
mijn.postbank.nl
militarybankonline.bankofamerica.com
moj.multibank.pl
moja.tatrabanka.sk
montevia.elmonte.es
my.hypovereinsbank.de
my.if.com
my.screenname.aol.com
myaccounts.navyfcu.org
mybank.bybank.it
myonlineaccounts2.abbeynational.co.uk
net.finansbank.ro
net.kutxa.net
net24.montepio.pt
netbank.danskebank.dk
netbank.erstebank.hu
nettbank.edb.com
nettbank.nordea.no
nettbankdrift.edb.com
nettbedriften.edb.com
nettbetaling.bbs.no
netteller.tsw.com.au
oc2net.net
oi.cajamadrid.es
oie.cajamadridempresas.es
olb.cascadebank.com
olb2.nationet.com
onba.zkb.ch
online
.lloydstsb.
online-a.unicreditbanca.it
online-banking.standardchartered.com.sg
online-banking.weberbank.de
online.alphabank.com.cy
online.ba-ca.com
online.bankofcyprus.com
online.chinabank.ph
online.corp.westpac.com.au

online.dollarbank.com
online.ebs.ie
online.mecu.com.au
online.montepaschi-ban`ue.fr
online.paritate.lv
online.peoplesbancorp.com
online.rd.dk
online.sainsburysbank.co.uk
online.wamu.com
online.wellsfargo.com
online.westpac.com.au
onlineaccess.ncsecu.org
onlinebanking-nw.bankofamerica.com
onlinebanking.bankcoop.ch
onlinebanking.bankofoklahoma.com
onlinebanking.capitalone.com
onlinebanking.lasallebank.com
onlinebanking.nationalcity.com
onlinebanking.norisbank.de
onlineservices.amp.com.au
onlineservices.ubs.com
onlineteller.cu.com.au
optionsexpress.com.sg
otpdirekt.otpbank.ro
pastornetempresas.bancopastor.es
pastornetparticulares.bancopastor.es
pc.arsys.es
pc24.patelco.org
pcb.peoples.com
pcbanking.umb.com
pccaja.lacajadecanarias.es
pccm.peoples.com
pintan.seb-bank.de
portal
.commerzbanking.de
portal
.erhverv.kreditbanken.dk
portal
.izb.de
portal
.kreditbanken.dk
priv.activobank7.pt
private.lombardodierdarieshentsch.com
privati.internetbanking.bancaintesa.it
probanking.procreditbank.bg
professionnels.secure.lcl.fr
publishing.accenture.com
rbc.com.ph
reclutamiento.monster.es
sap
.accenture.com

sec.westpac.co.nz
secure.accu.com.au
secure.baoffshore.com
secure.corporate.lloydstsb.com
secure.dexia-bil.lu
secure.esanda.com
secure.fundsxpress.com
secure.hsbc-direct.hsbc.fr
secure.ingdirect.ca
secure.ingdirect.co.uk
secure.ingdirect.com
secure.inteligo.com.pl
secure.midamericabank.com
secure.rabobank.com.au
secure.synovus.com
secure1.lansforsakringar.se
secureauth.redfcu.org
seguro.cam.es
service.oneaccount.com
servizi.atime.it
servizi.bpinfra.it
servizi.rasbank.it
sftebanking.com
signin.ebay.com
sitekey.bankofamerica.com
sobanet.baloise.ch
solo
.nordea.fi
solo.nordea.com
ssl.bsk.com.pl
ssl.pgs.wcom.net
ssl2.haspa.de
sslsecure.maybank.com.sg
sso.americanexpress.com
sso.uboc.com
sube.garanti.com.tr
supernet.bancosantander.com.co
tcfexpressbusiness.com
telebank
.ubs.com
telebank1.ubs.com
telemarch.bancamarch.es
teller.worldgaming.net
tes.teb.com.tr
ticari.teleweb.com.tr
ticari.yapikredi.com.tr
trade.cisco-online.com.cy
trading.scottrade.com
trust.firsttennessee.com
trustdirect.umb.com
uniservices2.uobgroup.com

uniservices3.uobgroup.com
us.etrade.com
vault.bankdirect.co.nz
virtualbank.com
vs1.absa.co.za
wbssoextcl.worldbank.org
wc.wachovia.com
web
.prod.bec.dk
web-access.com
web.da-us.citibank.com
web.secservizi.it
webbank.kuveytturk.com.tr
webbank.openplan.co.uk
webbank.standardchartered.com

cua.com.au
webbanking.comerica.com
webid.gs.com
welcome
.co-operativebank.co.uk
welcome
.smile.co.uk
ww3.deutsche-bank.es
www
.abcbrasil.com.br
www
.bancopopular.es
www
.bolivariano.com
www
.fiibg.com
www
.memberdirect.net
www
.mkbnetbankar.hu
www
.netbanka.cz
www
.usbank.com
www.
enligne.credit-agricole.fr
www.36\$online.com
www.\$3.com
www.abbeyinternational.com
www.allianceonline.net.my
www.alpha.gr
www.amarillonationalbank.com
www.americancentury.com
www.ardil.bancogallego.es
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