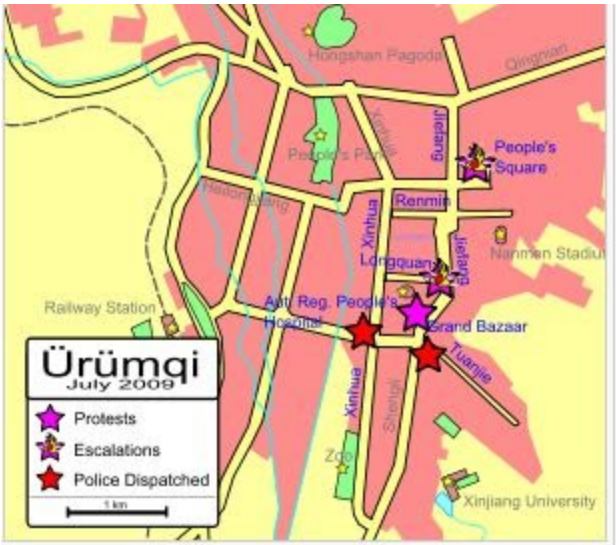
Jul 25 Mac Olyx backdoor + Gh0st Backdoor in RAR archive related to July 2009 Ürümqi riots in China (Samples included)

contagiodump.blogspot.com/2011/07/jul-25-mac-olyx-gh0st-backdoor-in-rar.html



Locations where protests and confrontations reportedly occurred

The recently discovered Backdoor for Mac Olyx (Criminals gain control over Mac with BackDoor.Olyx) was used for targeted attacks (or what it appears to be), which is not surprising. As Microsoft pointed out, in addition to malware, the package contains an html page and photos from a Wikipedia page for events dated July 5, 2009, however it appears that all photos relate to one event - July 2009 Ürümqi riots in China.

Locations where protests and confrontations reportedly occurred

> "Government censors disabled keyword searches for "Urumqi", and blocked access to Facebook and Twitter as well as local alternatives Fanfou and Youku. Chinese news sites mainly fed from Xinhua news service for updates about the rioting in Urumqi, comments features on websites were disabled on some stories to prevent negative posts about the lack of news. Internet connections in Urumqi were reportedly down.Many unauthorized postings on local sites and Google were said to have been "harmonised" by government censors, and emails containing terms related to the riots were blocked or edited to prevent discord."

Perhaps the trojans found in the package Ghostnet backdoor as Backdoor:Win32/Remosh.A. and the new Backdoor:MacOS_X/Olyx.A were destined for a Chinese human rights activist, as he/she would be likely to be interested in this particular event update. In addition, it is known that many of the Gh0stnet targets were human rights activists.

General File Information

MD5: 93a9b55bb66d0ff80676232818d5952f
File Type: Mach-O I386
Malware: Backdoor.Olyx

MD5: f65fbeb945348ad2e1a123ef5cee65d3
File Type: Windows PE EXE
Malware:Ghostnet backdoor

Download

Download the package (including 93a9b55bb66d0ff80676232818d5952f and f65fbeb945348ad2e1a123ef5cee65d3) as a password protected archive (contact me if you

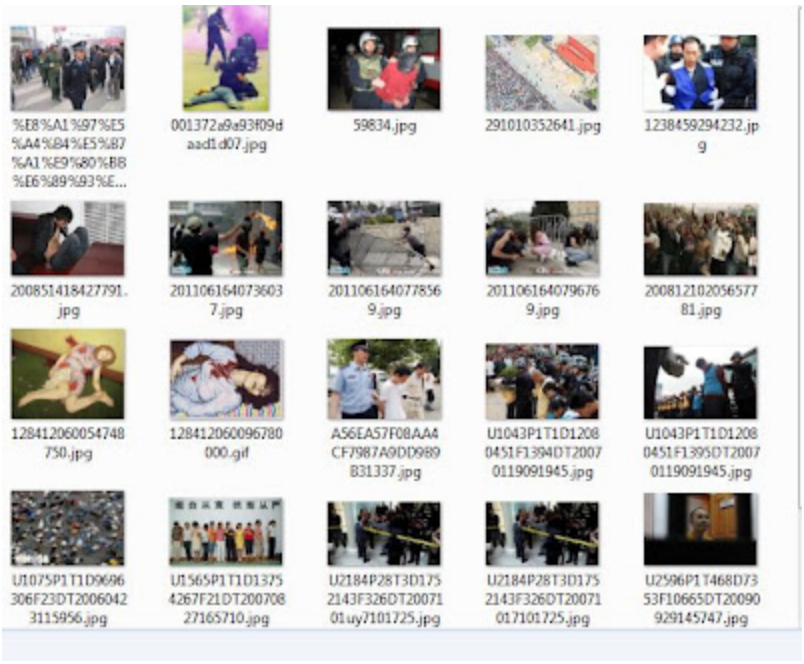
need the password)

All the thanks and credits go Kyle Yang, who was very kind to share (thank you, Kyle!!!)

(If you downloaded it on July 27 from 7:00 to 11:30 am UTC, please do it again, the pass was wrong but the scheme will work now)

Additional information and Analysis links

Name	Date modified	Type	Size
2011061640736037.jpg	6/16/2011 6:22 PM	Paint.NET Image	13 KB
2011061640796769.jpg	6/16/2011 6:22 PM	Paint.NET Image	16 KB
2011061640778569.jpg	6/16/2011 6:22 PM	Paint.NET Image	19 KB
load(1).css	6/16/2011 5:10 PM	CSS Document	40 KB
load.css	6/16/2011 5:10 PM	CSS Document	59 KB
geoiplookup.wikimedia[1]	6/16/2011 4:45 PM	WIKIMEDIA[1] File	1 KB
load(1).php	6/16/2011 4:45 PM	PHP File	12 KB
index.php	6/16/2011 4:45 PM	PHP File	4 KB
search-ltr.png	6/16/2011 4:45 PM	PNG image	1 KB
load.php	6/16/2011 4:45 PM	PHP File	14 KB
poweredby_mediawiki_88x31.png	6/16/2011 4:45 PM	PNG image	4 KB
wikimedia-button.png	6/16/2011 4:45 PM	PNG image	3 KB
MobileRedirect.js	6/16/2011 4:45 PM	JScript Script File	2 KB
Current events 2009 July 5	6/16/2011 4:24 PM	File	50 KB
Video-Current events 2009 July 5.exe	6/14/2011 11:29 PM	Application	201 KB

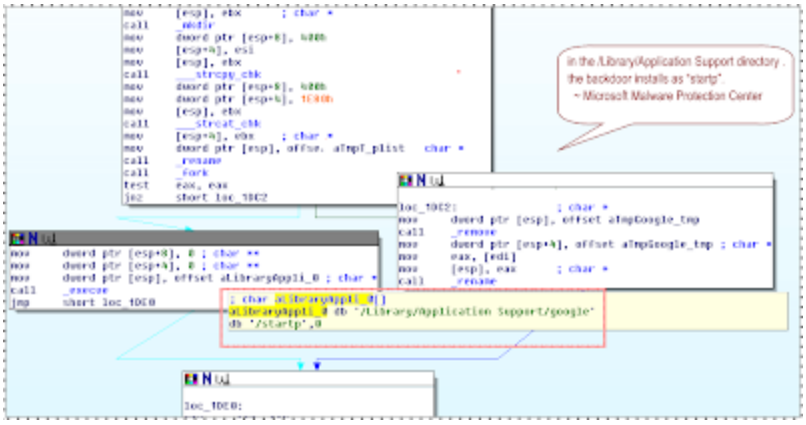


Microsoft Malware Protection center posted an excellent analysis with a lot of details, which you can find at the link below: Backdoor Olyx - is it malware on a mission for Mac?
Original report of Olyx backdoor by Dr.Web Criminals gain control over Mac with BackDoor.Olyx

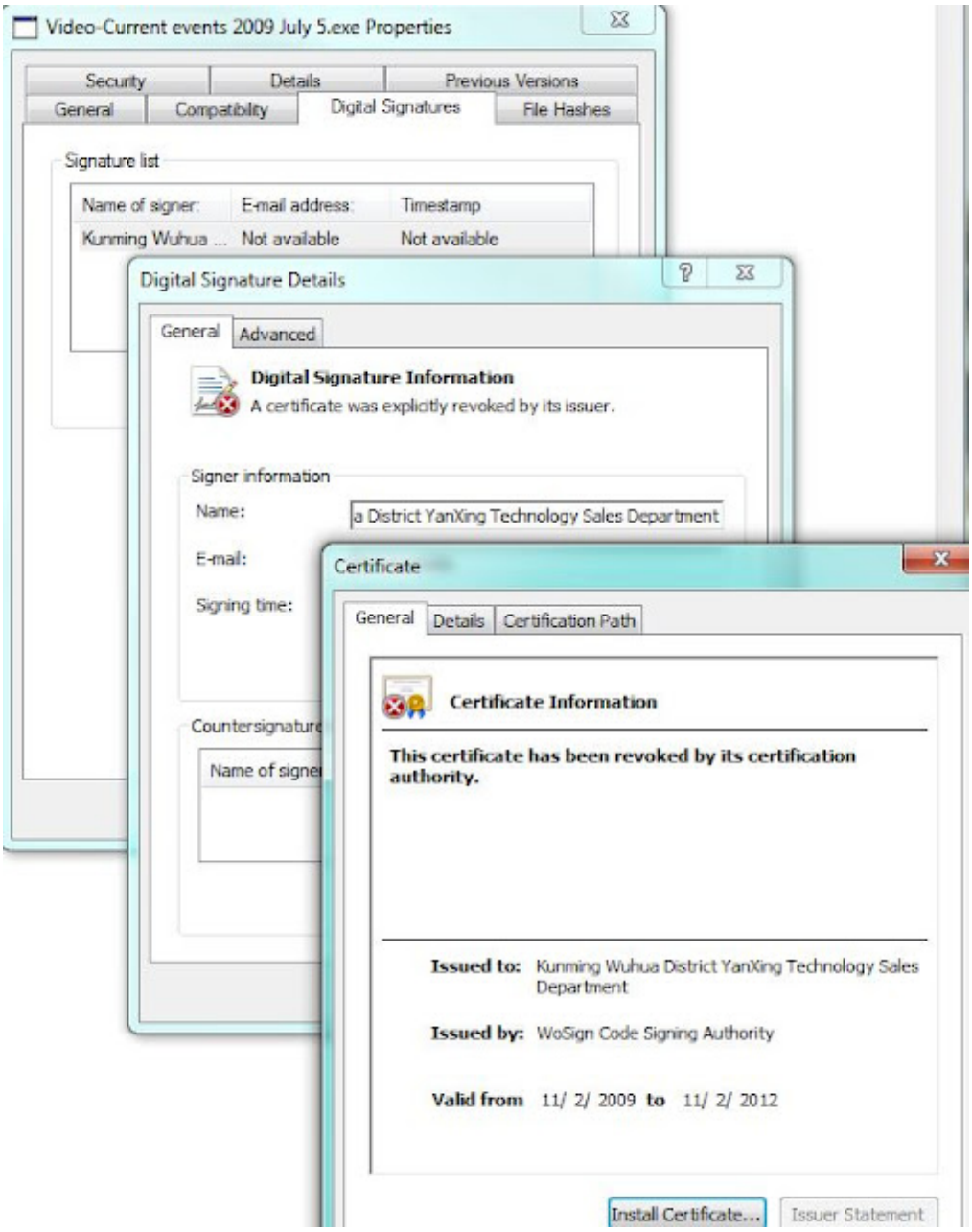
MD5: 93a9b55bb66d0ff80676232818d5952f
File Type: Mach-O I386
Malware: Backdoor.Olyx

I am not a Mac or RE expert, I just made a few screenshots of the disassembled Mach-O file with Microsoft comments, which I thought were relevant. Please correct me if needed :)

```
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist version="1.0">
<dict>
    <key>Label</key>
    <string>com.google.com.tstartup 1.0</string>
    <key>ProgramArguments</key>
    <array>
        <string>/Library/Application Support/Google/startp</string>
    </array>
    <key>RunAtLoad</key>
    <true/>
    <key>LaunchOnlyOnce</key>
    <true/>
</dict>
</plist>
```



MD5: f65fbeb945348ad2e1a123ef5cee65d3
File Type: Windows PE EXE
Malware: Ghostnet backdoor
Anubis Analysis http://anubis.iseclab.org/?action=result&task_id=1ae9dcbf36d882e541d8fa26d533a9d39&format=html
Here is a screenshot of the certificate, which was revoked and some strings from the binary


Video-Current events 2009 July 5.exe Properties
Security
Details
Previous Versions
General
Compatibility
Digital Signatures
File Hashes
Signature list
Name of signer:
E-mail address:
Timestamp
Kunming Wuhua ...
Not available
Not available
Digital Signature Details
General
Advanced
Digital Signature Information
A certificate was explicitly revoked by its issuer.
Signer information
Name:
a District YanXing Technology Sales Department
E-mail:
Signing time:
Countersignature
Name of signe
Certificate
General
Details
Certification Path
Certificate Information
This certificate has been revoked by its certification authority.
Issued to: Kunming Wuhua District YanXing Technology Sales Department
Issued by: WoSign Code Signing Authority
Valid from 11/ 2/ 2009 to 11/ 2/ 2012
Install Certificate...
Issuer Statement

```
00404324:  SSZ00404324_RegOpenKeyExA                    'RegOpenKeyExA',0
00404334:  SSZ00404334_RegQueryInfoKeyA                 'RegQueryInfoKeyA',0
00404348:  SSZ00404348_RegQueryValueExA                 'RegQueryValueExA',0
0040435C:  SSZ0040435C_RegSetValueExA                   'RegSetValueExA',0
0040436C:  SSZ0040436C_RegCreateKeyA                    'RegCreateKeyA',0
0040437C:  SSZ0040437C_RegEnumKeyA                      'RegEnumKeyA',0
00404388:  SSZ00404388_Kernel32_dll                     'Kernel32.dll',0
00404398:  SSZ00404398_CopyFileA                        'CopyFileA',0
004043A4:  SSZ004043A4_DeviceIoControl                  'DeviceIoControl',0
004043B4:  SSZ004043B4_FindResourceA                    'FindResourceA',0
004043C4:  SSZ004043C4_LoadResource                     'LoadResource',0
004043D4:  SSZ004043D4_SizeofResource                   'SizeofResource',0
004043E4:  SSZ004043E4_LockResource                     'LockResource',0
004043F4:  SSZ004043F4_shell32_dll                      'shell32.dll',0
00404400:  SSZ00404400_ShellExecuteA                    'ShellExecuteA',0
0040470C:  SSZ0040470C_shell32_dll                      'shell32.dll',0
00404718:  SSZ00404718_SHGetSpecialFolderLocation       'SHGetSpecialFolderLocation',0
00404734:  SSZ00404734_SHGetPathFromIDListA             'SHGetPathFromIDListA',0
00404EE4:  SSZ00404EE4_APPDATA                          'APPDATA',0
00404EF4:  SSZ00404EF4_Environment                      'Environment',0
00405010:  SSZ00405010_Users_Public_                    'Users\Public\',0
00405028:  SSZ00405028__AFAFB2EE_837C_4EA5_B933_998F94A '{AFAFB2EE-837C-4EA5-B933-998F94AEC654}\',0
00405058:  SSZ00405058_ProgramData_                     'ProgramData\',0
00405070:  SSZ00405070_TEMP_TEMP                        'TEMP\TEMP',0
00405084:  SSZ00405084_TEMP_                            'TEMP\',0
004054EC:  SSZ004054EC_notepad_exe                      'notepad.exe',0
00405AF0:  SSZ00405AF0_shell32_dll                      'shell32.dll',0
00405AFC:  SSZ00405AFC_IsUserAnAdmin                    'IsUserAnAdmin',0
00406D94:  SSZ00406D94__nls                             '.nls',0
00406E70:  SSZ00406E70_AD18BB45B27C8946AD19A0768E749458 'AD18BB45B27C8946AD19A0768E749458AE29A05BB2478847AF82A15A8D778E46AC
00408120:  SSZ00408120_PackedCatalogItem                'PackedCatalogItem',0
004081F4:  SSZ004081F4_SYSTEM_CurrentControlSet_Service 'SYSTEM\CurrentControlSet\Services\WinSock2\Parameters\Protocol_Cat
004082F4:  SSZ004082F4_PathName                         'PathName',0
004086D0:  SSZ004086D0_SOFTWARE_Microsoft_Windows_Curre 'SOFTWARE\Microsoft\Windows\CurrentVersion\Run',0
00408708:  SSZ00408708_Kernel_Fault_Check               'Kernel Fault Check',0
0040871C:  SSZ0040871C_Kernel_Fault_Check               'Kernel Fault Check',0
004088B0:  SSZ004088B0_dumprep_exe                      'dumprep.exe',0
004088C0:  SSZ004088C0_open                             'open',0
00408A54:  SSZ00408A54_b758_tbl                         'b758.tbl',0
00408A80:  SSZ00408A80_SYSTEM_CurrentControlSet_Service 'SYSTEM\CurrentControlSet\Services\WinSock2\mswsock32',0
00408B80:  SSZ00408B80_dxdiag_exe                       'dxdiag.exe',0
00408D8C:  SSZ00408D8C_____Global_                      '\\.\Global\',0
00408DA0:  SSZ00408DA0_____                             '\\.\',0
00408DBC:  SSZ00408DBC_port                             'port',0
00408FE0:  SSZ00408FE0_SysFader                         'SysFader',0
00409054:  SSZ00409054_Error                            'Error',0
0040905C:  SSZ0040905C_Runtime_error_____at_00000000    'Runtime error     at 00000000',0
00409208:  SSZ00409208____UCL_data_compression_library_ 0Dh,0Ah,0Ah,'UCL data compression library.',0Ah,'$Copyright: UCL (C
0040934A:  SSZ0040934A_1_83                             '1.83',0
0040934F:  SSZ0040934F_Jul_20_2004                      'Jul 20 2004',0
```

Automated Scans

Current events 2009 July 5

Submission date:2011-07-27 05:07:51 (UTC)

Result:19 /43 (44.2%)

http://www.virustotal.com/file-scan/report.html?id=a5c1b89b26007f4672409e0e7a3ab85135a0ffc01c74c4b6d49084da7fe9def5-1311743271

AhnLab-V3 2011.07.27.00 2011.07.27 MacOS_X/Olyx

Avast 4.8.1351.0 2011.07.26 MacOS:Olyx [Trj]

Avast5 5.0.677.0 2011.07.26 MacOS:Olyx [Trj]

BitDefender 7.2 2011.07.27 MAC.OSX.Backdoor.Olyx.A

Comodo 9524 2011.07.27 UnclassifiedMalware

DrWeb 5.0.2.03300 2011.07.27 BackDoor.Olyx.1

Emsisoft 5.1.0.8 2011.07.27 Backdoor.OSX.Olyx!IK

F-Secure 9.0.16440.0 2011.07.27 Backdoor:OSX/Olyx.A

GData 22 2011.07.27 MAC.OSX.Backdoor.Olyx.A

Ikarus T3.1.1.104.0 2011.07.27 Backdoor.OSX.Olyx

Kaspersky 9.0.0.837 2011.07.27 Backdoor.OSX.Olyx.a
Microsoft 1.7104 2011.07.26 Backdoor:MacOS_X/Olyx.A
NOD32 6327 2011.07.27 OSX/Olyx.A
PCTools 8.0.0.5 2011.07.27 Backdoor.Olyx
Sophos 4.67.0 2011.07.27 OSX/Bckdr-RID
Symantec 20111.1.0.186 2011.07.27 Backdoor.Olyx
TrendMicro-HouseCall 9.200.0.1012 2011.07.27 OSX_OLYX.WA
VBA32 3.12.16.4 2011.07.26 BackDoor.OSX.Generic
VirusBuster 14.0.140.0 2011.07.26 Backdoor.OSX.Olyx.A
Additional information
Show all
MD5 : 93a9b55bb66d0ff80676232818d5952f

Video-Current events 2009 July 5.exe - WINDOWS BINARY Submission date:2011-07-27 05:00:39 (UTC)
Result:19/ 43 (44.2%)
http://www.virustotal.com/file-scan/report.html?id=d2f45192f22ef62a694facd0604b12c8c748ac94a6d8a2913f4beec7f04be1c1-1311742839
AhnLab-V3 2011.07.27.00 2011.07.27 Win-Trojan/Olyx.205480
AntiVir 7.11.12.130 2011.07.27 BDS/Olyx.A
BitDefender 7.2 2011.07.27 Backdoor.Wolyx.A
Comodo 9524 2011.07.27 TrojWare.Win32.Magania.~AD
DrWeb 5.0.2.03300 2011.07.27 Trojan.PWS.Multi.228
Emsisoft 5.1.0.8 2011.07.27 Trojan-PWS.Win32.Hangame.cl!IK
eSafe 7.0.17.0 2011.07.26 Win32.Backdoor.Troja
GData 22 2011.07.27 Backdoor.Wolyx.A
Ikarus T3.1.1.104.0 2011.07.27 Trojan-PWS.Win32.Hangame.cl
McAfee 5.400.0.1158 2011.07.27 Artemis!F65FBEB94534
McAfee-GW-Edition 2010.1D 2011.07.26 Heuristic.BehavesLike.Win32.AdSpyware.A
Microsoft 1.7104 2011.07.26 Backdoor:Win32/Wolyx.A
NOD32 6327 2011.07.27 Win32/Delf.OBY
Panda 10.0.3.5 2011.07.26 Suspicious file
PCTools 8.0.0.5 2011.07.27 Backdoor.Trojan
Symantec 20111.1.0.186 2011.07.27 Backdoor.Trojan
TrendMicro-HouseCall 9.200.0.1012 2011.07.27 BKDR_WOLYX.WA
VIPRE 9978 2011.07.27 Trojan.Win32.Generic.pak!cobra
VirusBuster 14.0.140.0 2011.07.26 Backdoor.Wolyx!YVAf5CV8Y34

MD5 : f65fbeb945348ad2e1a123ef5cee65d3

Anubis Analysis
http://anubis.iseclab.org/?

action=result&task_id=1ae9dcbf36d882e541d8fa26d533a9d39&format=html

Traffic

http://blogs.technet.com/b/mmpc/archive/2011/07/25/backdoor-olyx-is-it-malware-on-a-mission-for-mac.aspx

121.254.173.57
Host reachable, 234 ms. average

121.254.128.0 - 121.254.255.255

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