

ASEC REPORT

VOL.27 | 2012.04

AhnLab Monthly Security Report

1. SECURITY TRENDS – MAR. 2012
2. SECURITY TRENDS – 1Q 2012

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AhnLab

ASEC (AhnLab Security Emergency Response Center) is a global security response group consisting of virus analysts and security experts. This monthly report is published by ASEC, and it focuses on the most significant security threats and the latest security technologies to guard against these threats. For further information about this report, please refer to AhnLab, Inc.'s homepage (www.ahnlab.com).

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1. SECURITY TRENDS – MAR. 2012

01. Malicious Code Trend
a. Malicious Code Statistics

Top 20 Malicious Code Reports

Statistics collected by the ASEC show that 13,820,206 malicious codes were reported in March 2012. This is an increase of 156,432 from the 13,663,774 reported in the previous month, but a decrease of 130,695 from the report in January (Fig. 1-1). The most frequently reported malicious code was Trojan/Win32.adh, followed by JS/Agent and Trojan/Win32.Gen. 7 new malicious codes were reported this month (Table 1-1).



Ranking	↑↓	Malicious Code	Reports	Percentage
1	▲2	Trojan/Win32.adh	1,398,105	26.3%
2	▼1	JS/Agent	572,549	10.8%
3	▲1	Trojan/Win32.Gen	432,252	8.1%
4	▲2	Textimage/Autorun	391,166	7.4%
5	▼3	Malware/Win32.generic	354,288	6.7%
6	▲4	Adware/Win32.korad	268,885	5.1%
7	—	Trojan/Win32.hdc	250,776	4.7%
8	NEW	Adware/Win32.startpage	202,661	3.8%
9	▲3	Trojan/Win32.agent	171,610	3.2%
10	▼5	Trojan/Win32.fakeav	169,272	3.1%
11	NEW	Win-Trojan/Downloader.74240.AE	145,390	2.7%
12	NEW	JS/Iframe	131,853	2.5%
13	▲1	Trojan/Win32.genome	131,134	2.5%
14	NEW	Exploit/Cve-2011-3544	118,400	2.2%
15	NEW	Java/Agent	110,797	2.1%
16	NEW	Adware/Win32.wingo	102,775	1.9%
17	▼4	Downloader/Win32.agent	95,725	1.8%
18	▼2	Html/Iframe	95,031	1.8%
19	▼4	Win-Adware/Korad.1038848	88,423	1.7%
20	NEW	Malware/Win32.suspicious	88,194	1.6%
			5,319,286	100.0%

[Table 1-1] Top 20 Malicious Code Reports

Top 20 Distributed Malicious Codes

The table below shows the percentage breakdown of the top 20 malicious code variants reported this month. For March 2012, Trojan/Win32 was the most frequently reported malicious code, representing 33.2% (3,079,746 reports) of the top 20 malicious code variants, followed by Adware/Win32 (914,008 reports) and Win-Trojan/Downloader (611,228 reports).

Ranking	↑↓	Malicious Code	Reports	Percentage
1	—	Trojan/Win32	3,079,746	33.2%
2	▲4	Adware/Win32	914,008	9.9%
3	▲6	Win-Trojan/Downloader	611,228	6.6%
4	▲1	JS/Agent	573,387	6.2%
5	▼1	Win-Adware/Korad	566,194	6.1%
6	▼4	Win-Trojan/Agent	545,766	5.9%
7	▼4	Malware/Win32	458,760	4.9%
8	0	Textimage/Autorun	391,246	4.2%
9	▼2	Downloader/Win32	382,037	4.2%
10	—	Win-Trojan/Onlinegamehack	298,071	3.2%
11	▲1	Backdoor/Win32	187,516	2.0%
12	▲4	Win32/Conficker	183,990	2.0%
13	0	Win32/Virut	172,711	1.9%
14	NEW	Win-Trojan/Rootkit	151,880	1.6%
15	▲2	Win32/Autorun.worm	149,331	1.6%
16	▲2	Win32/Kido	143,161	1.5%
17	NEW	JS/Iframe	131,853	1.4%
18	NEW	Exploit/Cve-2011-3544	118,400	1.3%
19	NEW	Java/Agent	110,797	1.2%
20	▼9	Win-Trojan/Korad	102,104	1.1%
			9,272,186	100.0%

[Table 1-2] Top 20 Distributed Malicious Codes

Top 20 New Malicious Code Reports

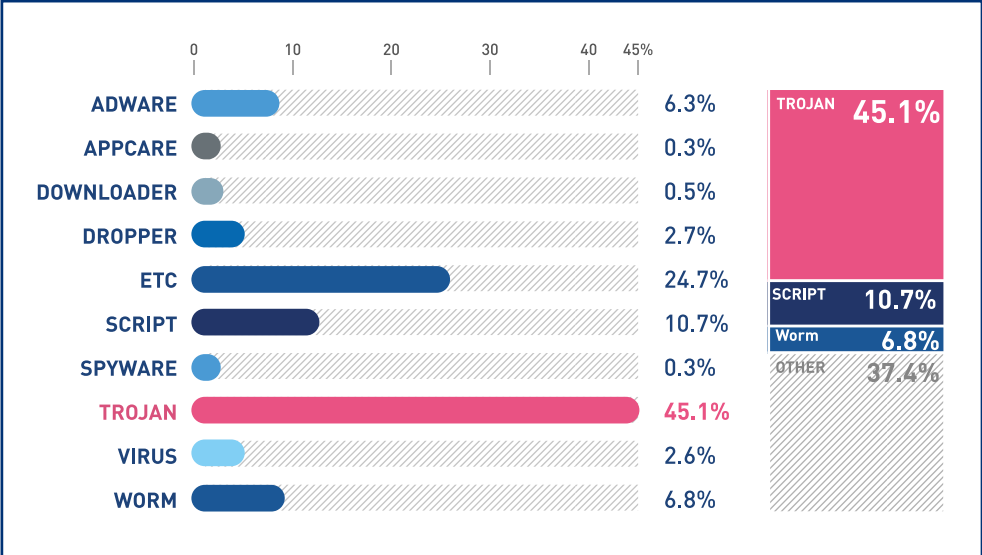
The table below shows the percentage breakdown of the top 20 new malicious codes reported this month. For March 2012, Win-Adware/Downloader.74240 AE was the most frequently reported new malicious code, representing 17.6% (145,390 reports) of the top 20 new malicious codes, followed by Win-Adware/KorAd.1462784 (62,363 reports).

Ranking	↑↓	Malicious Code	Reports	Percentage
1		Win-Trojan/Downloader.74240.AE	145,390	17.6%
2		Win-Adware/KorAd.1462784	62,363	7.6%
3		Win-Trojan/Downloader.92160.BM	60,945	7.4%
4		JS/Agent	58,050	7.1%
5		Win-Trojan/Downloader.900096	54,267	6.6%
6		Win-Trojan/Rootkit.28928.C	45,733	5.6%
7		Win-Trojan/Rootkit.28928.D	44,330	5.4%
8		Win-Trojan/Startpage.321024.K	41,534	5.1%
9		Win-Trojan/Dllbot.132096.C	36,610	4.5%
10		Win-Adware/BH0.KorAd.592384	33,955	4.1%
11		Win-Adware/KorAd.613968	33,050	4.0%
12		Win-Adware/KorAd.571904.B	31,815	3.9%
13		Win-Trojan/Downloader.654336.B	28,098	3.4%
14		Win-Trojan/Downloader.315392.T	24,453	3.0%
15		Win-Trojan/Agent.1718784.F	22,022	2.7%
16		Win-Trojan/Downloader.253952.K	21,391	2.6%
17		MID/Cve-2012-0003	20,754	2.5%
18		Win-Adware/KorAd.1123840	19,660	2.4%
19		Dropper/Agent.1988884	18,707	2.3%
20		Win-Adware/KorAd.225280.D	18,144	2.2%
			821,271	100.0%

[Table 1-3] Top 20 New Malicious Code Reports

Breakdown of Primary Malicious Code Types

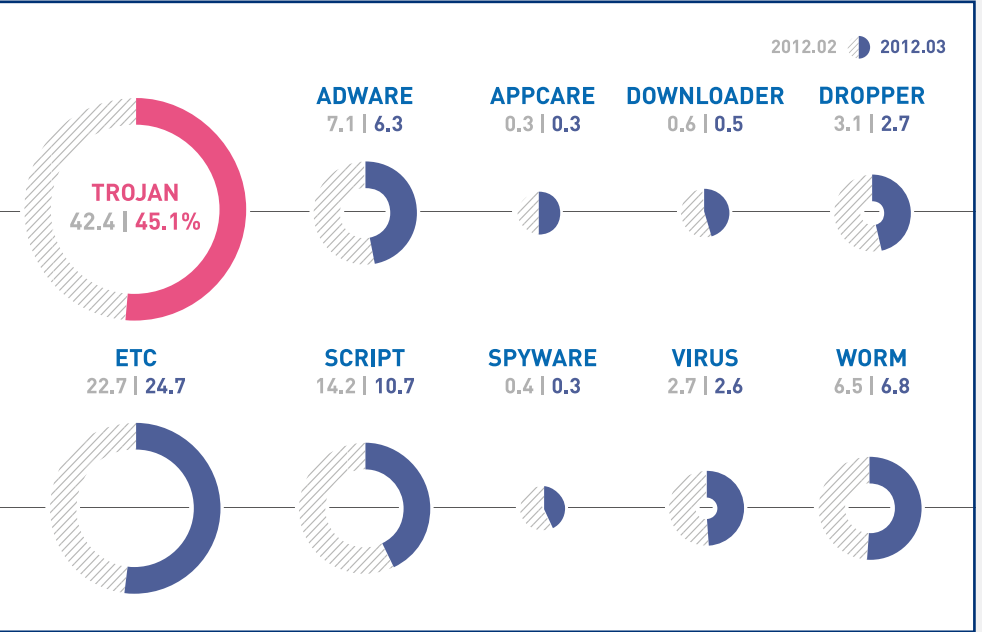
The chart below categorizes the top malicious codes reported this month. For March 2012, Trojan was the most frequently reported malicious code, representing 45.1% of the top reported malicious codes, followed by script (10.7%) and worm (6.8%).



[Fig. 1-2] Breakdown of Primary Malicious Code Types

Monthly Breakdown of Primary Malicious Code Types

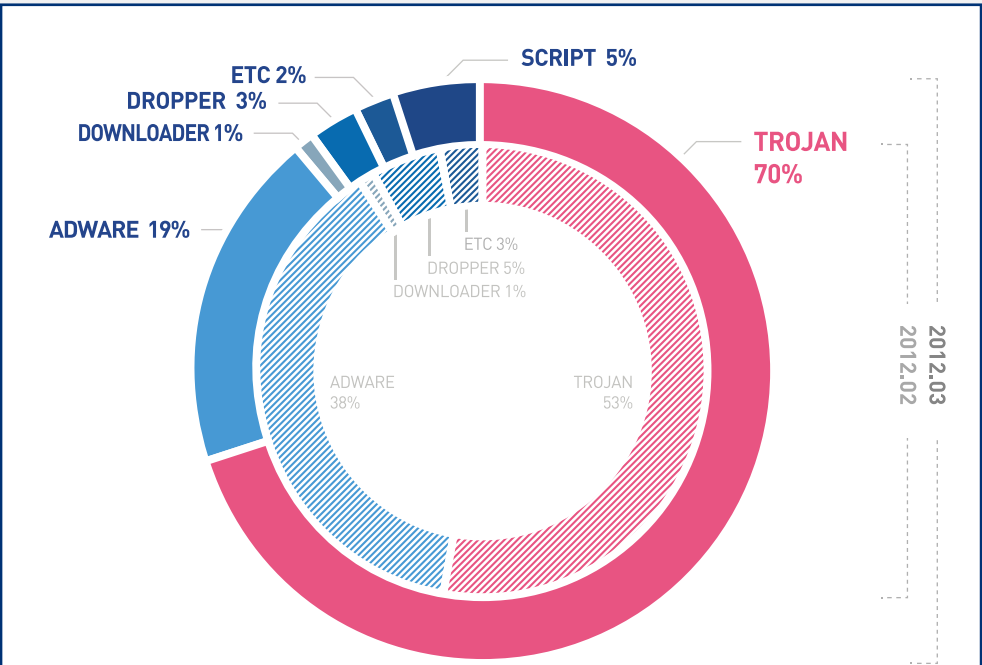
Fig. 1-3 represents the comparison of this month's malicious codes with those of the previous month. Compared to the previous month, the number of Trojan and worm increased, whereas the number of script, adware, dropper, virus, downloader and spyware decreased. The number of Appcare was similar to that of the previous month.



[Fig. 1-3] Monthly Breakdown of Primary Malicious Code Types [Feb. 2012 vs. Jan. 2012]

Breakdown of New Malicious Code Types

For March 2012, Trojan was the most frequently reported new malicious code, representing 70% of the top reported new malicious codes, followed by adware (19%) and script (5%).



[Fig. 1-4] Breakdown of New Malicious Code Types

lkcmdj9xnow.exe contains addresses like 'war.*****.com (121.**.***.138)', 'war.*****.com (174.**.***.75)', and 'war.*****.com (121.**.***.138)'. The file periodically attempts access 'war.*****.com' but, at the time of analysis, further operation was not observed due to failure in connection. In addition, it has a feature to stop its operation when debugging and file detection tools like 'OllyDbg', 'Regmon' and 'Iceword' are executed.

As shown in Fig. 1-33, ahnurl.sys file hooks ZwQueryDirectoryFile and ZwSetInformationFile and hides operation of itself and olesau32.dll.

[Fig. 1-33] Kernel hooking for hiding					
ahnurl.sys	HookSDT	ZwQueryDirectoryFile	hooked [0xf89b2dc4(not found)]	0x0 0	
ahnurl.sys	HookSDT	ZwSetInformationFile	hooked [0xf89b2f06(not found)]	0x0 0	

V3 detects this malicious code as:

- Win-Trojan/Onlinegamehack.44637
- Win-Trojan/Rootkit.28928.C

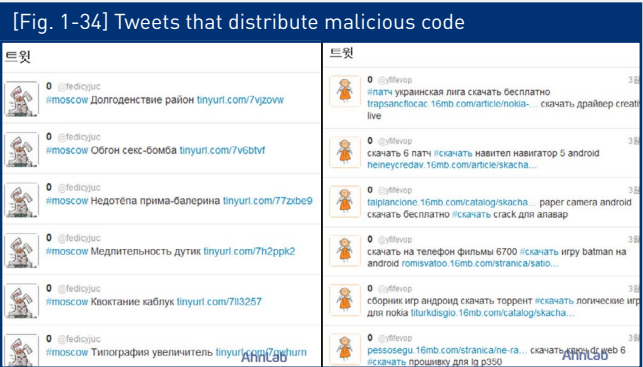
01. Malicious Code Trend

c. Mobile Malicious Code Issues

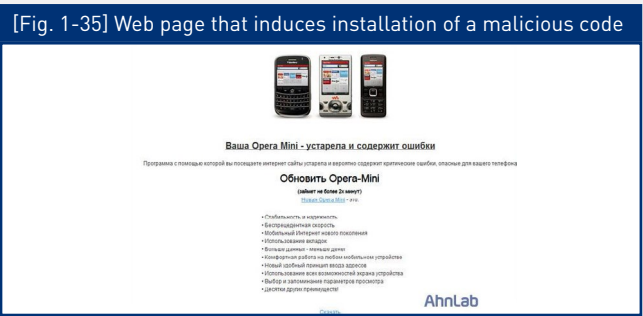
Malicious code for Android Phones distributed via Twitter

Distribution of a variant of Android-Trojan/Fakeinst that sends premium-rate text messages and installs additional malicious codes has been detected in many domestic and overseas Twitter accounts.

The tweets used in the distribution are written in Russian and contain malicious URL that downloads malicious application.



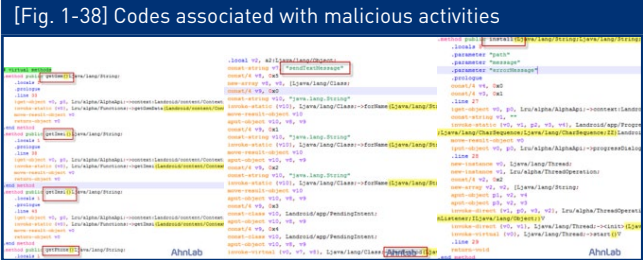
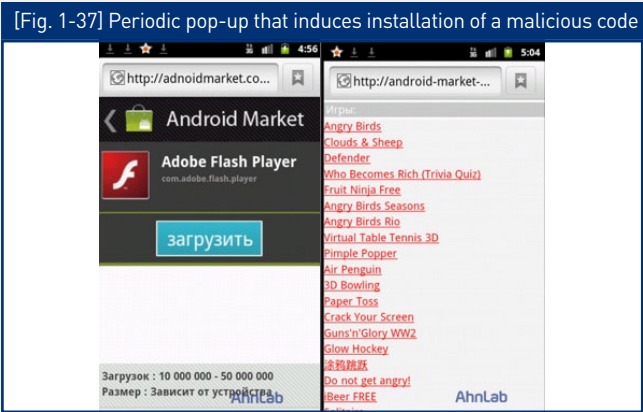
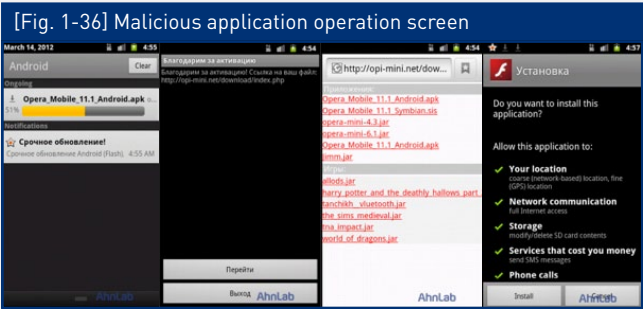
When a user clicks the URL in the tweet, the user is redirected to a page to induce installation of the malicious code, as shown in Fig. 1-35. The pages usually disguise themselves as installation pages for popular applications (e.g. mobile browser, mobile antivirus).



Operations of the malicious application installed via the page include:

- Sending private information of infected smartphone (e.g. IMEI, IMSI, phone number) to a certain server

- Charging premium rate by sending SMS to a certain number
- Inducing installation of other malicious code while running in the background



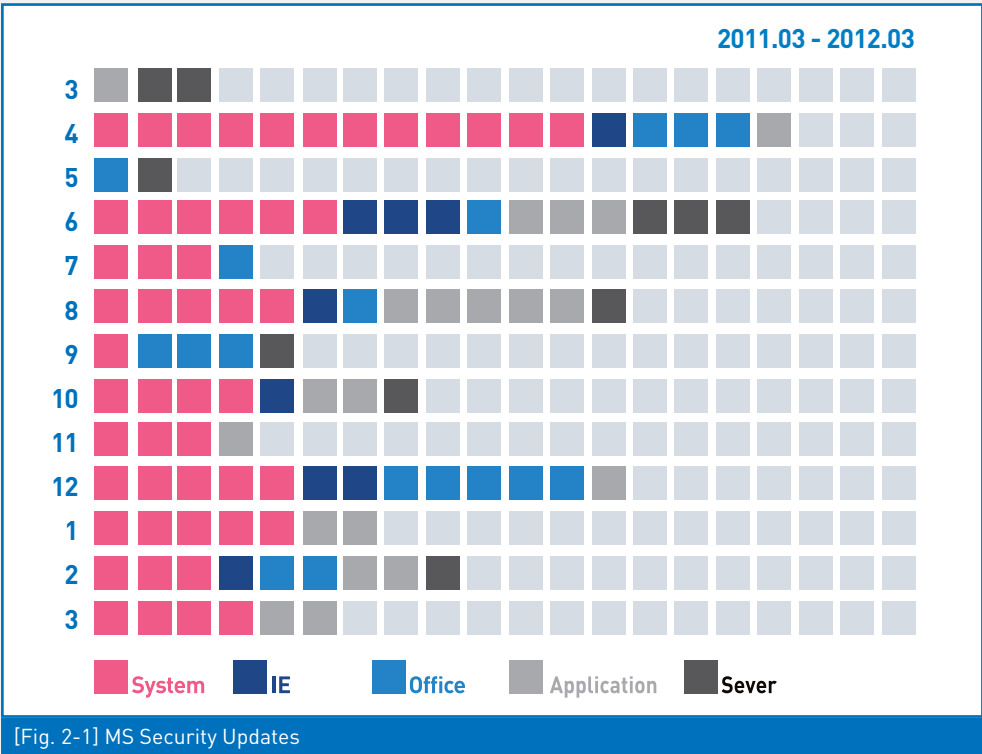
V3 detects this malicious code as:

- Android-Trojan/Fakeinst
- Android-Trojan/FakeIM

02. Security Trend
a. Security Statistics

Microsoft Security Updates – March 2012

Microsoft issued a total of 6 security updates this month (1 critical, 4 important and 1 moderate) associated with Windows systems and applications. In particular, special caution should be exercised for MS12-020, which could allow remote code execution, as relevant attack codes have already been disclosed.



[Fig. 2-1] MS Security Updates

Severity	Vulnerability
Critical	Vulnerability in Remote Desktop could allow remote code execution (MS12-020)
Important	Vulnerability in DNS server could allow denial of service (MS12-017)
Important	Vulnerability in Windows kernel-mode driver could allow elevation of privilege (MS12-018)
Important	Vulnerability in Visual Studio could allow elevation of privilege (MS12-021)
Important	Vulnerability in Expression Design could allow remote code execution (MS12-022)
Moderate	Vulnerability in DirectWrite could allow denial of service (MS12-019)

[Table 2-1] MS Security Updates for March 2012

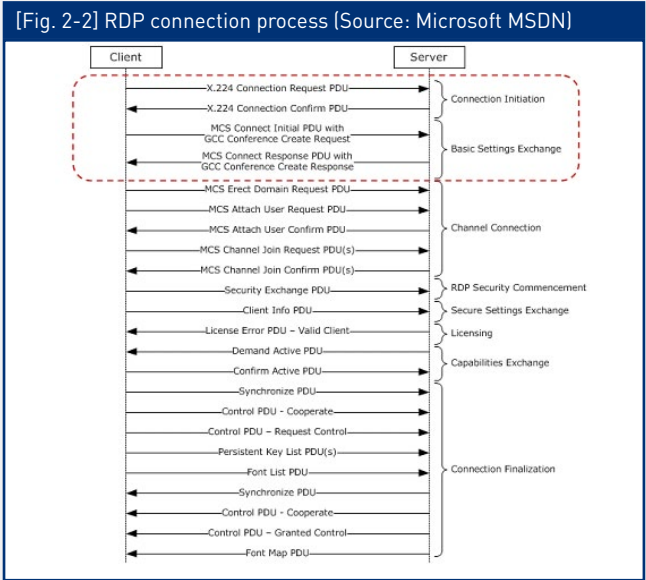
02. Security Trend
b. Security Issues

Announcement of vulnerabilities in Windows Remote Desktop

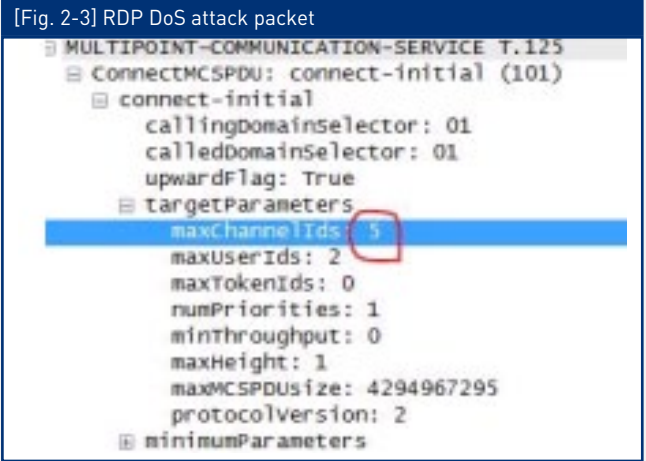
On March 14, 2012, Microsoft announced an urgent update of MS12-020 to resolve privately reported vulnerability in Remote Desktop, CVE-2012-0002. As Remote Desktop Protocol is commonly used, release of the execution code is associated with very high risk. It should also be noted that service denial attack code using this vulnerability has been leaked.

RDP (Remote Desktop Protocol) that configures virtual session in a desktop allows remote users access to all data and applications on the computer. An attacker can fully control an affected system, including installation of malicious codes or removal of existing programs by exploiting the RDP vulnerability. In March 2012, denial of service attack code is the only leak, and remote execution code has not been released. However, considering the code structure, it is highly possible that the attack code has been created.

Fig. 2-2 shows how RDP communicates. The vulnerability occurs in the connection initiation and basic setting exchange processes.



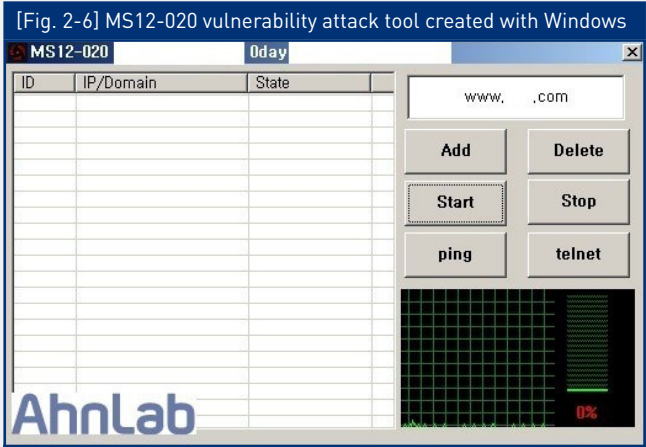
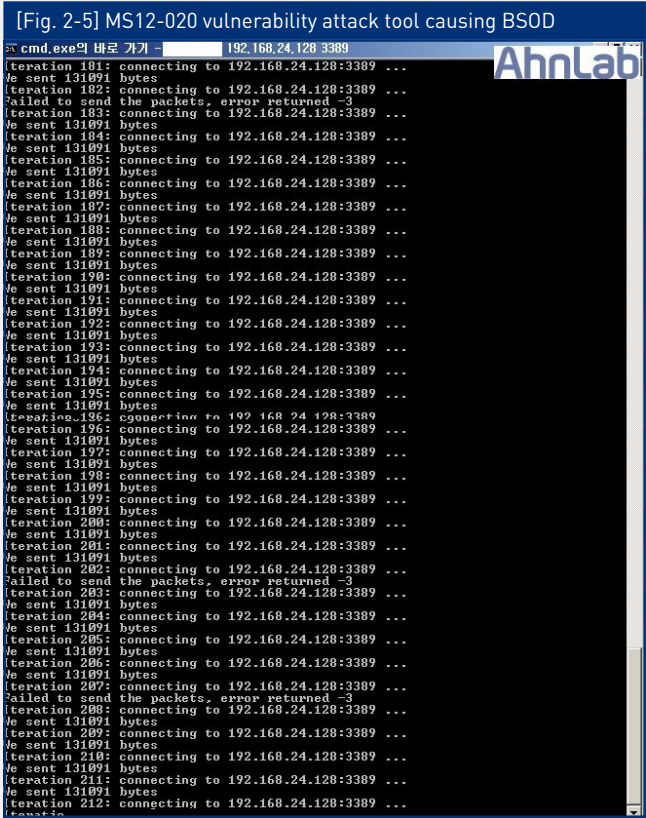
Experience of previous DoS attacks suggests that domain parameter structures should be defaulted with defined values. Here, the maxChannelIds value of less than 6 in the targetParameters causes vulnerability of 'Use After Fee' in kernel (termdd.sys, rdpdwd.sys).



If the DoS attack is successful, the crash screen shown in Fig. 2-4 is displayed.



In addition, Command Line and GUI (Graphic User Interface) tools are currently shared in Chinese underground.



Possible preventive actions for the vulnerability are to install MS12-020 patch or disable Windows Remote Desktop.

Caution should be exercised in Remote Desktop, as it is commonly used for administrative purpose. The following systems are affected.

- Windows XP
- Vista Ultimate
- Windows Server 2003
- Windows 7
- Windows Server 2008
- Windows Server 2008 R2

For Windows 2008 and Windows 7, the name is changed from 'Terminal Service' to 'Remote Desktop' and TCP/3389 port is used.

<TrusGuard Detection Name>

- ms12-020_rdp_exploit (CVE-2012-0002)

Recommendation for using the latest Java version

Malicious codes are continuously distributed via the web and it mostly exploit the vulnerabilities in Windows, Internet Explorer and Flash. However, recent increase in attacks using vulnerabilities in Java brings about needs for Java update. Java is not recognized as much as Windows or Flash Player. This is why many users keep old versions of Java or do not notice that they have Java installed on their computer, which makes Java become a target of attack.

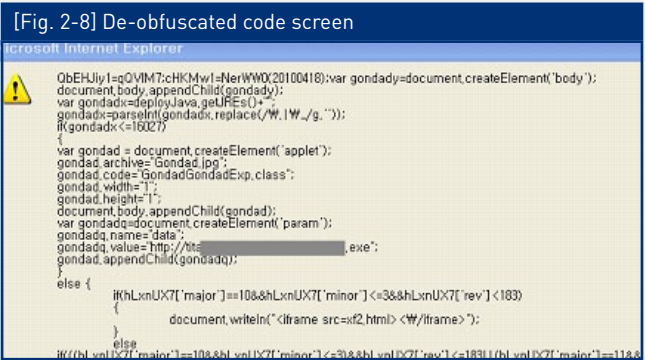
In particular, CVE-2011-3544 vulnerability is frequently used in attacks, through which remote code can be executed in JRE setting. The attack code contains many malicious script files created using JSXX VIP Script. A common format of the attack is as below.

A website calls 'www._[deleted]_.com?iframe=XXX'.

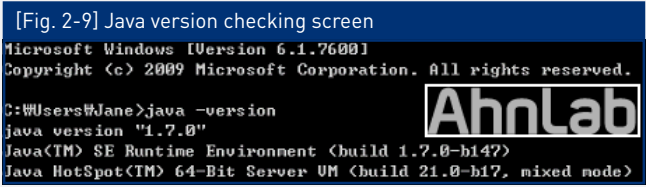
Then, among several requested files, 'www._[deleted]_.com/some.js' file is called, which is embedded in an intruded website,



'www._[removed]_.com\XXX\XXX.html?XXX' is packed with malicious script and downloads malicious codes using vulnerabilities in Flash or Java Applet.



To minimize damages from possible attack using the vulnerability in Java, update to the latest version is essential.

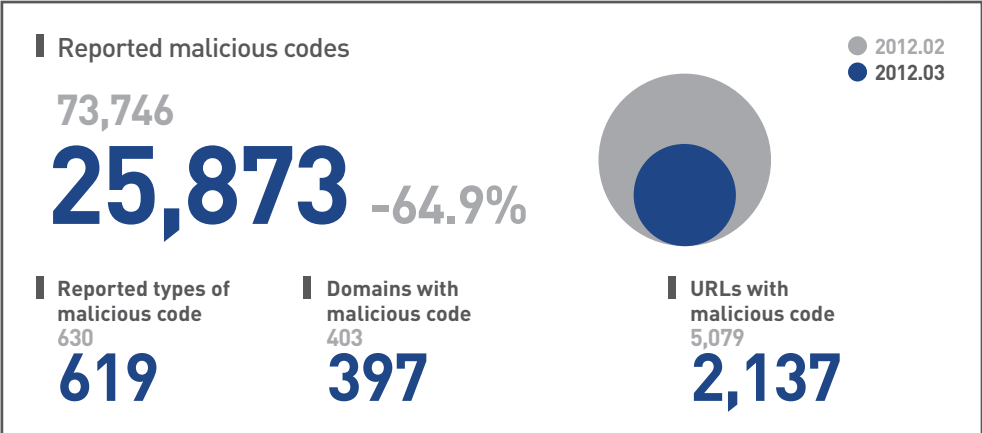


By using the command shown in Fig. 2-9 or visiting 'http://www.java.com/ko/download/installed.jsp', you can check the Java version currently installed on your computer. At the same time, you can see whether you can update the program.

03. Web Security Trend
a. Web Security Statistics

Website Security Summary

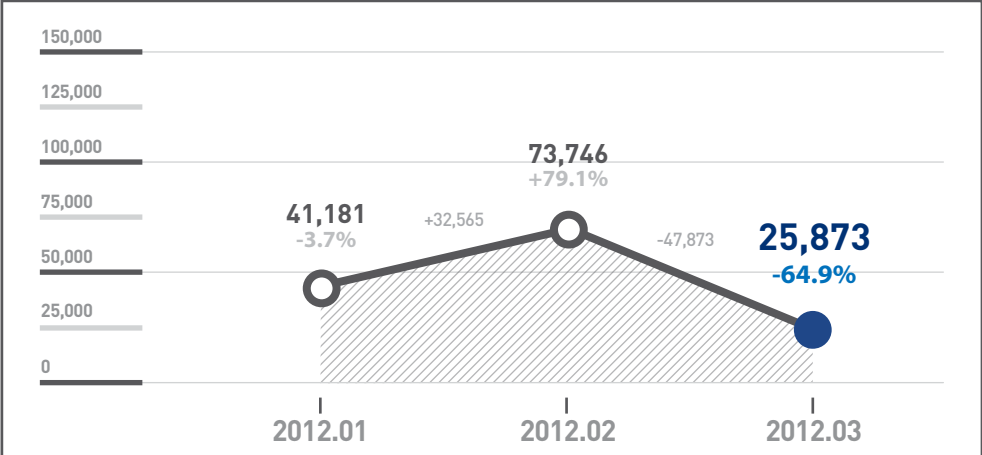
This month, SiteGuard (AhnLab’s web browser security service) blocked 25,873 websites that distributed malicious codes. 619 types of malicious code, 397 domains with malicious code and 2,137 URLs with malicious code were found. The overall numbers are slightly decreased from the last month’s.



[Table 3-1] Website Security Report on March 2012

Monthly Change in Blocked Malicious URLs

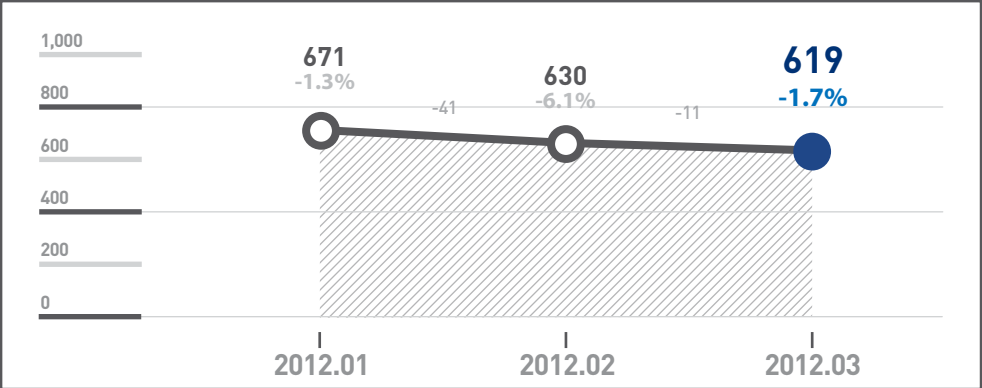
25,873 malicious URLs were blocked in March 2012, a 65% fall from the 73,746 blocked in the previous month.



[Fig. 3-1] Monthly Change in Blocked Malicious URLs

Monthly Change in the Number of Reported Malicious Code Types

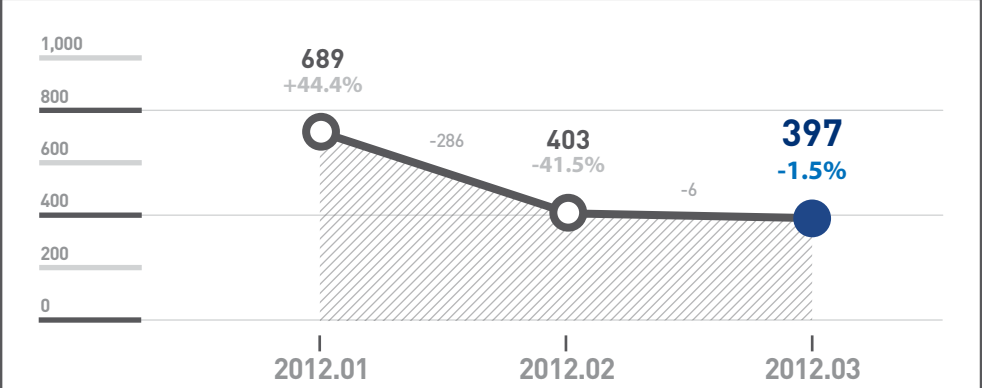
619 malicious code types were reported in March 2012, a 2% fall from the 630 reported in the previous month.



[Fig. 3-2] Monthly Change in the Number of Reported Malicious Code Types

Monthly Change in Domains with Malicious Code

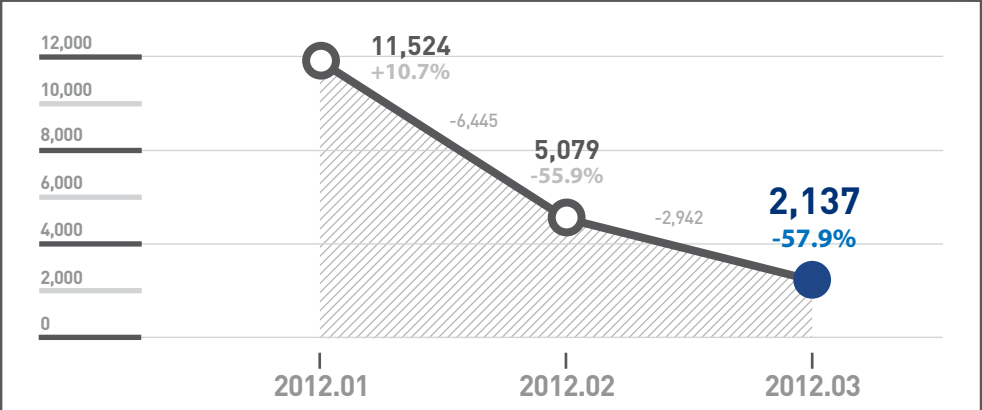
397 domains were found with malicious codes in March 2012, a 1% fall from the 403 found in the previous month.



[Fig. 3-3] Monthly Change in Domains with Malicious Code

Monthly Change in URLs with Malicious Code

2,137 URLs were found with malicious codes in March 2012, a 58% fall from the 5,079 found in the previous month.



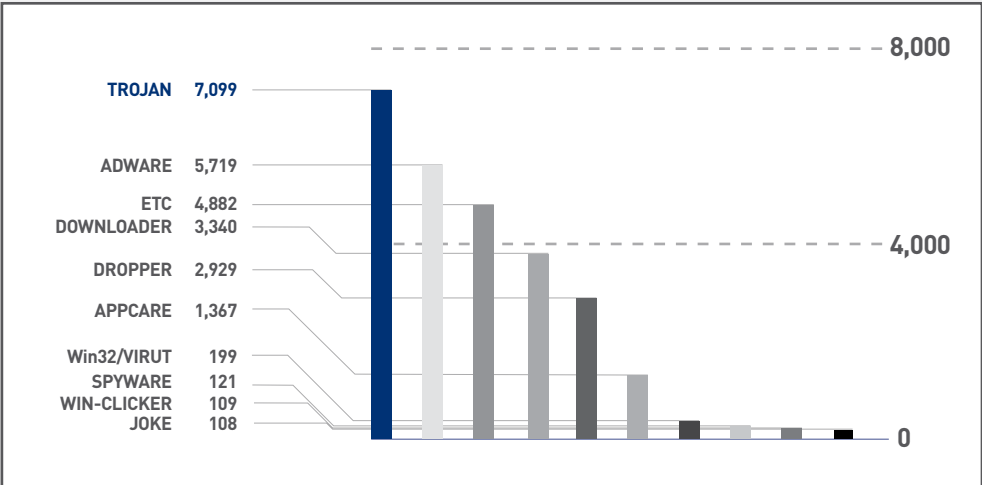
[Fig. 3-4] Monthly Change in URLs with Malicious Code

Top Distributed Types of Malicious Code

For March 2012, Trojan was the top distributed type of malicious code with 7,099 (27.4%) cases reported, followed by adware with 5,719 (22.1%) cases reported.

TYPE	Reports	Percentage
TROJAN	7,099	27.4%
ADWARE	5,719	22.1%
DOWNLOADER	3,340	12.9%
DROPPER	2,929	11.3%
APPCARE	1,367	5.3%
Win32/VIRUT	199	0.8%
SPYWARE	121	0.5%
WIN-CLICKER	109	0.4%
JOKE	108	0.4%
ETC	4,882	18.9%
	25,873	100.0%

[Table 3-2] Top Distributed Types of Malicious Code



[Fig. 3-5] Top Distributed Types of Malicious Code

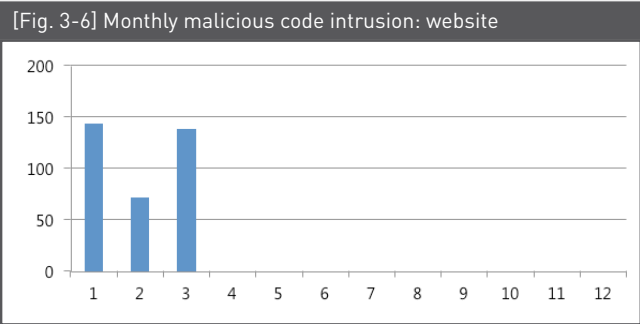
Top 10 Distributed Malicious Codes

Ranking	↑↓	Malicious Code	Reports	Percentage
1	▲7	Win-Adware/ToolBar.Cashon.308224	3,105	24.6%
2	NEW	Dropper/Small.Gen	2,072	16.4%
3	▼1	Downloader/Win32.Korad	1,599	12.5%
4	▼1	Win-AppCare/WinKeyfinder.973512	1,246	9.9%
5	—	Downloader/Win32.Totoran	1,109	8.8%
6	▼2	Adware/Win32.KorAd	874	6.9%
7	NEW	Unwanted/Win32.WinKeygen	735	5.8%
8	NEW	Unwanted/Win32.WinKeyfinder	707	5.6%
9	▼2	Trojan/Win32.HDC	607	4.8%
10	NEW	Trojan/Win32.FakeAV	588	4.7%
			12,642	100.0%

[Table 3-3] Top 10 Distributed Malicious Codes

03. Web Security Trend
b. Web Security Issues

Mar. 2012 Malicious Code Intrusion: Website



The chart above shows the number of websites intruded to distribute malicious codes. The number was about 2.5 times higher than that of the last month, because the attack reduction due to national holiday no longer applied.

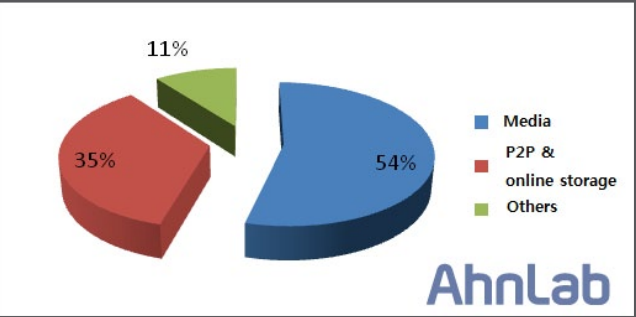
Top 10 malicious codes distributed via websites

[Table 3-4] Top 10 malicious codes distributed via websites

Ranking	Threat	URL
1	Win-Trojan/Patched.64512.B	48
2	Win-Trojan/Patcher.133632	40
3	Win-Trojan/Agent.62976.IC	26
4	Win-Trojan/Onlinegamehack.139264.CX	25
5	Trojan/Win32.Patcher	16
6	Win-Trojan/Patcher.141176.B	16
7	Win-Trojan/Patcher.144192	16
8	Trojan/Win32.Patcher	16
9	Trojan/Win32.Patcher	12
10	Win-Trojan/Patched.143360.D	9

The table above shows the top 10 malicious codes distributed via websites this month. Win-Trojan/Patched.64512.B (hereafter Patched.64512.B) is the most frequently distributed malicious code, and the identified distribution channels were 48 domestic websites.

[Fig. 3-7] Distribution of Win-Trojan/Patched.64000.B



As for the types of site, distribution via media websites is the most reported, followed by distribution via P2P, online storage and others, as shown in Fig. 3-7. On several media websites, it was assumed that malicious codes were distributed via their simultaneous service of main URL and multiple sub-URLs. Also, some malicious scripts found on certain media websites were difficult to detect, as they were obfuscated using tab and space bar characters.

2. SECURITY TREND – 1Q 2012

01. Malicious Code Trend
a. Malicious Code Statistics

Top 20 Malicious Code Reports – 1Q 2012

Statistics collected by the ASEC show that 41,434,881 malicious codes were reported in the first quarter of 2012. The number increased by 3,719,491 from 37,715,390 cases reported in the last quarter. Trojan/Win32.adh was the most frequently reported malicious code, followed by JS/Agent and Trojan/Win32.hdc. 20 new malicious codes were included in this quarter (Table 4-1).



[Fig. 4-1] Monthly Change in Malicious Code Reports

Ranking	↑↓	Malicious Code	Reports	Percentage
1	NEW	Trojan/Win32.adh	2,417,926	15.8%
2	▼1	JS/Agent	2,086,223	13.6%
3	NEW	Trojan/Win32.hdc	1,356,630	8.9%
4	NEW	Trojan/Win32.Gen	1,314,212	8.6%
5	NEW	Malware/Win32.generic	1,294,300	8.5%
6	▼4	Textimage/Autorun	1,167,790	7.6%
7	NEW	Trojan/Win32.fakeav	869,213	5.7%
8	NEW	Adware/Win32.korad	715,846	4.7%
9	NEW	Trojan/Win32.agent	515,965	3.4%
10	NEW	Trojan/Win32.genome	430,830	2.8%
11	▼5	Win-Trojan/Agent.465408.T	368,978	2.4%
12	NEW	Html/Iframe	356,442	2.3%
13	NEW	Downloader/Win32.agent	350,376	2.3%
14	NEW	Downloader/Win32.adload	328,078	2.1%
15	NEW	Java/Agent	316,930	2.1%
16	NEW	ASD.PREVENTION	305,971	2.0%
17	▼9	JS/Iframe	297,327	1.9%
18	NEW	Backdoor/Win32.asper	289,823	1.9%
19	▼8	Html/Agent	266,624	1.7%
20	NEW	Adware/Win32.startpage	266,379	1.7%
			15,315,863	100.0%

[Table 4-1] Top 20 Malicious Code Reports

Top 20 Distributed Malicious Codes– 1Q 2012

The table below shows the percentage breakdown of the top 20 malicious code variants reported this quarter. In the first quarter of 2012, Trojan/Win32 was the most frequently reported malicious code, representing 31.8% (8,532,482 reports) of the top 20 malicious code variants, followed by Adware/Win32 (2,216,958) and JS/Agent (2,091,101).

Ranking	↑↓	Malicious Code	Reports	Percentage
1	NEW	Trojan/Win32	8,532,482	31.8%
2	NEW	Adware/Win32	2,216,958	8.3%
3	▼2	JS/Agent	2,091,101	7.8%
4	▼2	Win-Trojan/Agent	1,965,752	7.3%
5	▼2	Win-Adware/Korad	1,579,393	5.9%
6	NEW	Malware/Win32	1,541,952	5.7%
7	NEW	Downloader/Win32	1,284,449	4.8%
8	▼1	Win-Trojan/Downloader	1,254,617	4.7%
9	▼5	Textimage/Autorun	1,168,028	4.4%
10	▼2	Win-Trojan/Onlinegamehack	913,202	3.4%
11	NEW	Backdoor/Win32	602,447	2.2%
12	▼1	Win32/Virut	555,035	2.1%
13	▼3	Win32/Conficker	549,169	2.0%
14	▼2	Win32/Autorun.worm	438,718	1.6%
15	—	Win32/Kido	422,978	1.6%
16	NEW	Win-Trojan/Korad	392,273	1.5%
17	NEW	Html/Iframe	356,442	1.3%
18	NEW	Dropper/Win32	331,849	1.2%
19	NEW	Java/Agent	316,930	1.2%
20	NEW	Packed/Win32	315,024	1.2%
			26,828,799	100.0%

[Table 4-2] Top 20 Distributed Malicious Codes

Top 20 New Malicious Code Reports – 1Q 2012

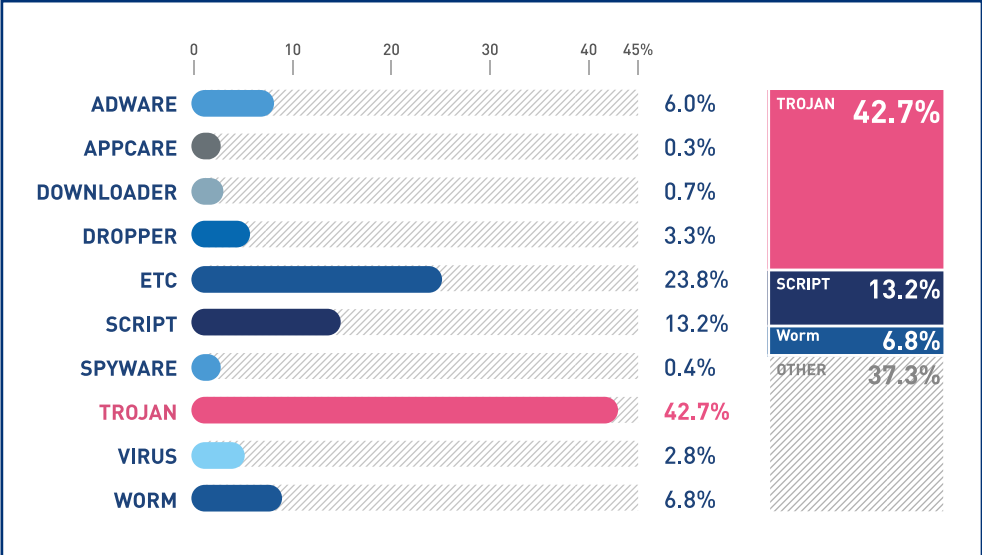
The chart below categorizes the top malicious codes reported this quarter. In the first quarter of 2012, Exploit/Cve-2011-3544 was the most frequently reported new malicious code, representing 15.2% (245,663 reports) of the top 20 new malicious codes, followed by Win-Adware/KorAd.1038848 (232,852 reports).

Ranking	↑↓	Malicious Code	Reports	Percentage
1		Exploit/Cve-2011-3544	245,663	15.2%
2		Win-Adware/KorAd.1038848	232,852	14.4%
3		Win-Trojan/Downloader.74240.AE	145,390	9.0%
4		Win-Trojan/Downloader.1947648	96,571	6.0%
5		Win-Trojan/Downloader.53248.PV	66,431	4.1%
6		Win-Trojan/Korad.450560.C	65,153	4.0%
7		Win-Trojan/Agent.582144.F	63,621	3.9%
8		Win-Adware/Pop2Click.591872	62,851	3.9%
9		Win-Adware/KorAd.1462784	62,363	3.8%
10		Win-Adware/KorAd.1253376	62,341	3.8%
11		Win-Trojan/Downloader.92160.BM	60,945	3.8%
12		Win-Adware/Shortcut.316928	59,630	3.7%
13		JS/Agnet	58,050	3.6%
14		Win-Trojan/Downloader.900096	54,267	3.3%
15		Win-Adware/KorAd.1491456	52,214	3.2%
16		Win-Trojan/Downloader.544768.N	49,919	3.1%
17		Win-Adware/KorAd.229376.E	46,285	2.9%
18		Win-Trojan/Rootkit.28928.C	45,733	2.8%
19		Win-Trojan/Korad.796160	44,622	2.8%
20		Win-Adware/KorAd.1277440	44,345	2.7%
			1,619,246	100.0%

Table 4-3 Top 20 New Malicious Code Reports

Breakdown of Primary Malicious Code Types – 1Q 2012

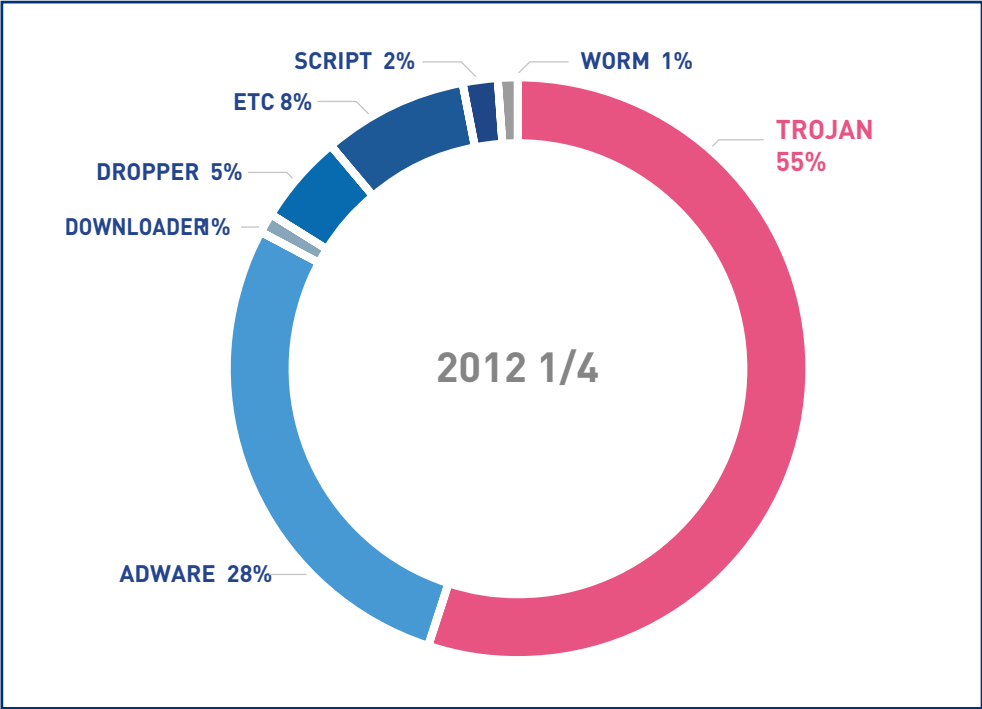
The chart below categorizes the top malicious codes reported this quarter. In the first quarter of 2012, Trojan was the most frequently reported malicious code, representing 42.4% of the top reported malicious codes, followed by script (13.2%) and worm (6.8%).



[Fig. 4-2] Breakdown of Primary Malicious Code Types

New Malicious Code Type Breakdown

In the first quarter of 2012, Trojan was the most frequently reported new malicious code, representing 55% of the top reported new malicious codes, followed by adware (28%) and dropper (5%).

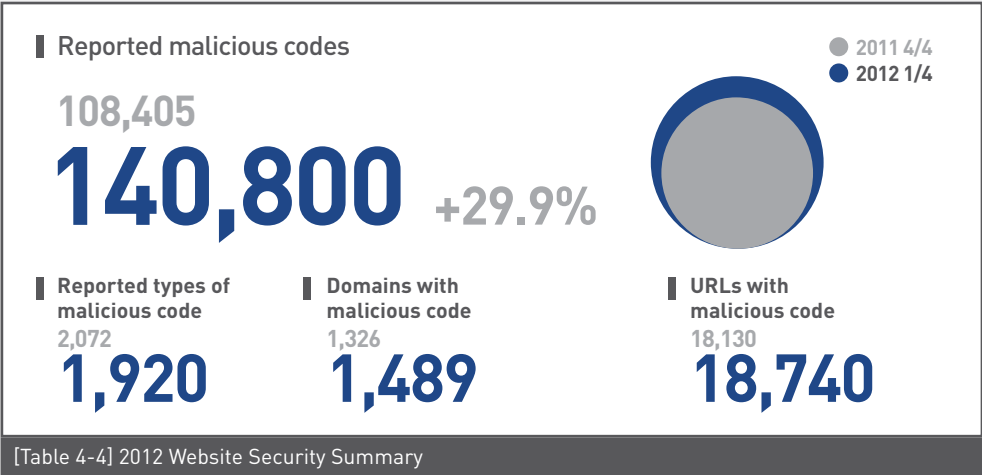


[Fig. 4-3] New Malicious Code Type Breakdown

02. Web Security Trend
a. Web Security Statistics

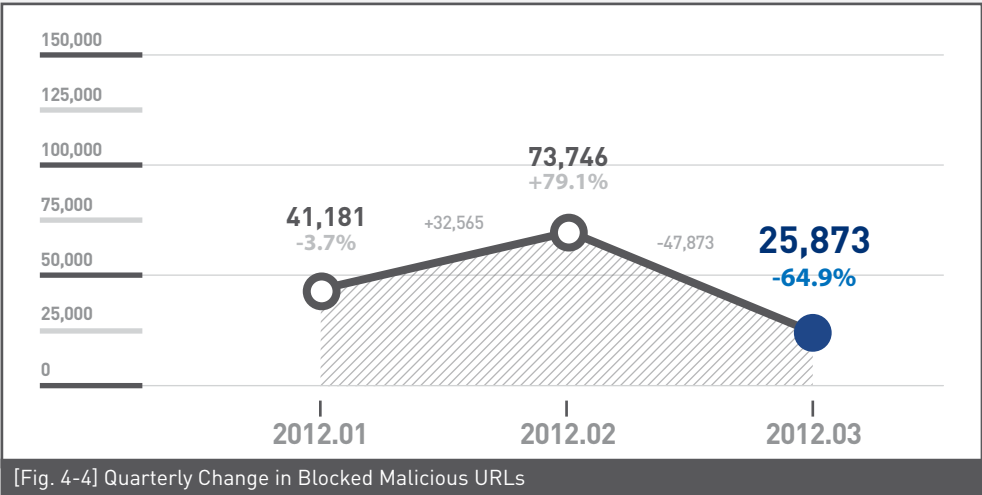
Website Security Summary

This month, SiteGuard (AhnLab's web browser security service) blocked 140,800 websites that distributed malicious codes. 1,920 types of malicious code, 1,489 domains with malicious code and 18,740 URLs with malicious code were found.



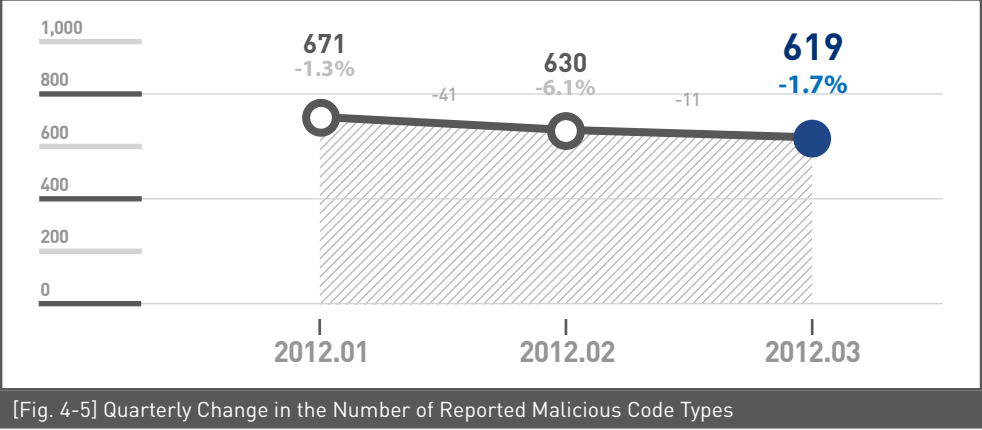
Quarterly Change in Blocked Malicious URLs

In the first quarter of 2012, the number of reported blocked malicious URLs increased by 30% from 108,405 the previous quarter to 140,800.



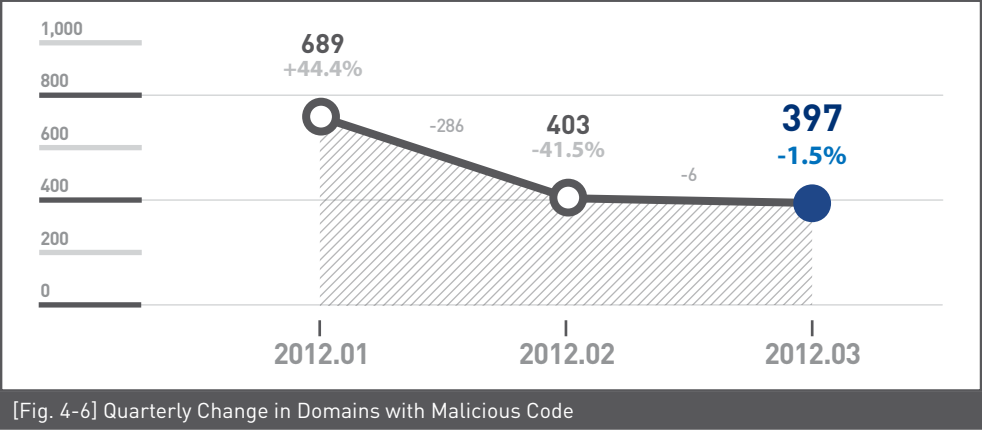
Quarterly Change in the Number of Reported Malicious Code Types

In the first quarter of 2012, the number of reported types of malicious code decreased by 7% to 1,920 from 2,072 the previous quarter.



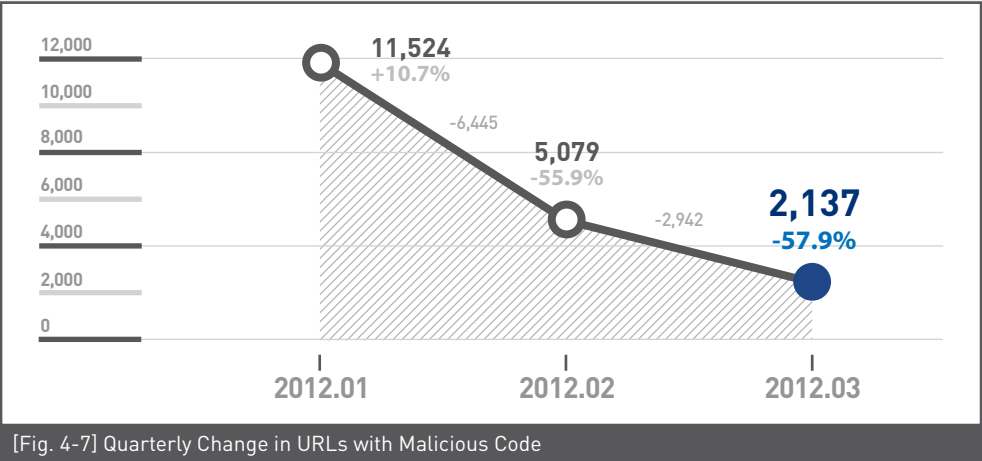
Quarterly Change in Domains with Malicious Code

In the first quarter of 2012, the number of reported domains with malicious code increased 12% to 1,489, from 1,326 the previous quarter.



Quarterly Change in URLs with Malicious Code

In the first quarter of 2012, the number of URLs with malicious codes increased by 3% to 18,740 from 18,130 the previous quarter.

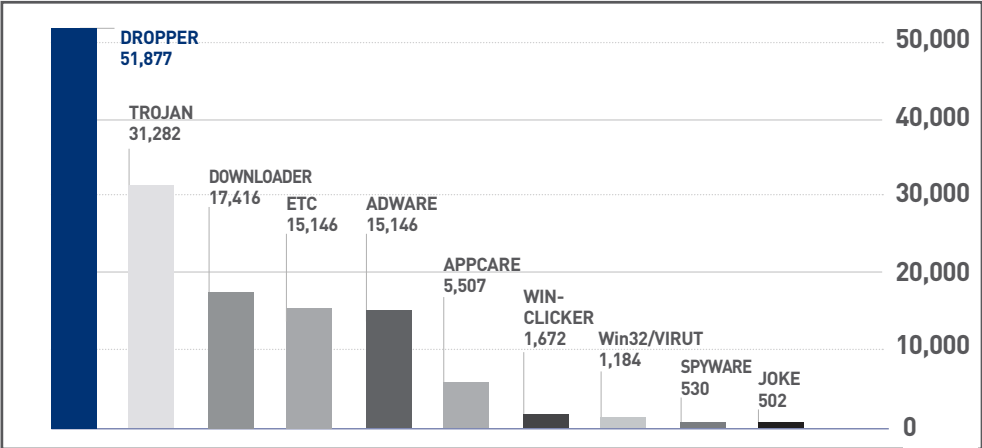


Top Distributed Types of Malicious Codes

In this quarter, dropper was the top distributed type of malicious code with 51,877 (36.8%) cases, followed by Trojan with 31,282 (22.2%) cases.

TYPE	Reports	Percentage
DROPPER	51,877	36.8%
TROJAN	31,282	22.2%
DOWNLOADER	17,416	12.4%
ADWARE	15,146	10.8%
APPCARE	5,507	3.9%
WIN-CLICKER	1,672	1.2%
Win32/VIRUT	1,184	0.8%
SPYWARE	530	0.4%
JOKE	502	0.4%
ETC	15,684	11.1%
	140,800	100.0%

[Table 4-5] Top Distributed Types of Malicious Code



[Fig. 4-8] Top Distributed Types of Malicious Code in 1Q 2012

Top Distributed Types of Malicious Codes

In the top 10 malicious codes distributed, Win-Adware/KorAd.2008816 was top with 44,877 cases, followed by Win-Trojan/Agent.848000 with 7,650 cases.

Ranking	↑↓	Malicious Code	Reports	Percentage
1	NEW	Win-Dropper/KorAd.2008816	44,877	51.2%
2	NEW	Win-Trojan/Agent.848000	7,650	8.7%
3	—	Downloader/Win32.Korad	6,902	7.9%
4	▲1	Downloader/Win32.Totoran	4,991	5.7%
5	NEW	Win-AppCare/WinKeyfinder.973512	4,847	5.5%
6	▼4	Win-Adware/ToolBar.Cashon.308224	4,508	5.1%
7	▼6	Downloader/Win32.Genome	4,372	5.0%
8	NEW	Adware/Win32.KorAd	4,223	4.8%
9	NEW	Dropper/Small.Gen	3,057	3.5%
10	▼4	Unwanted/Win32.WinKeygen	2,300	2.6%
			87,727	100.0%

Table 4-6 Top 10 Malicious Codes distributed in 1Q 2012

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