

An in-depth perspective on software vulnerabilities and exploits, malicious code threats, and potentially unwanted software

Microsoft Security Intelligence Report

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Germany

The statistics presented here are generated by Microsoft security programs and services running on computers in Germany in 2Q13 and previous quarters. This data is provided from administrators or users who choose to opt in to provide data to Microsoft, using IP address geolocation to determine country or region.

In previous volumes of the *Microsoft Security Intelligence Report*, malware prevalence was measured by *infection rate*, defined as the number of computers cleaned for every 1,000 executions of the Microsoft Malicious Software Removal Tool (*computers cleaned per mille*, or *CCM*). To provide a more accurate picture of the malware landscape, the CCM metric is being replaced by a measure of *encounter rate*, defined as the percent of computers running Microsoft real-time security products that detect malware each quarter.

The encounter rate for a population is typically much greater than its infection rate, because real-time security software blocks most malware before it can infect the computer. To help put encounter rates in context, this volume of the report includes data for both encounter rate and infection rate.

Infection rate statistics for Germany

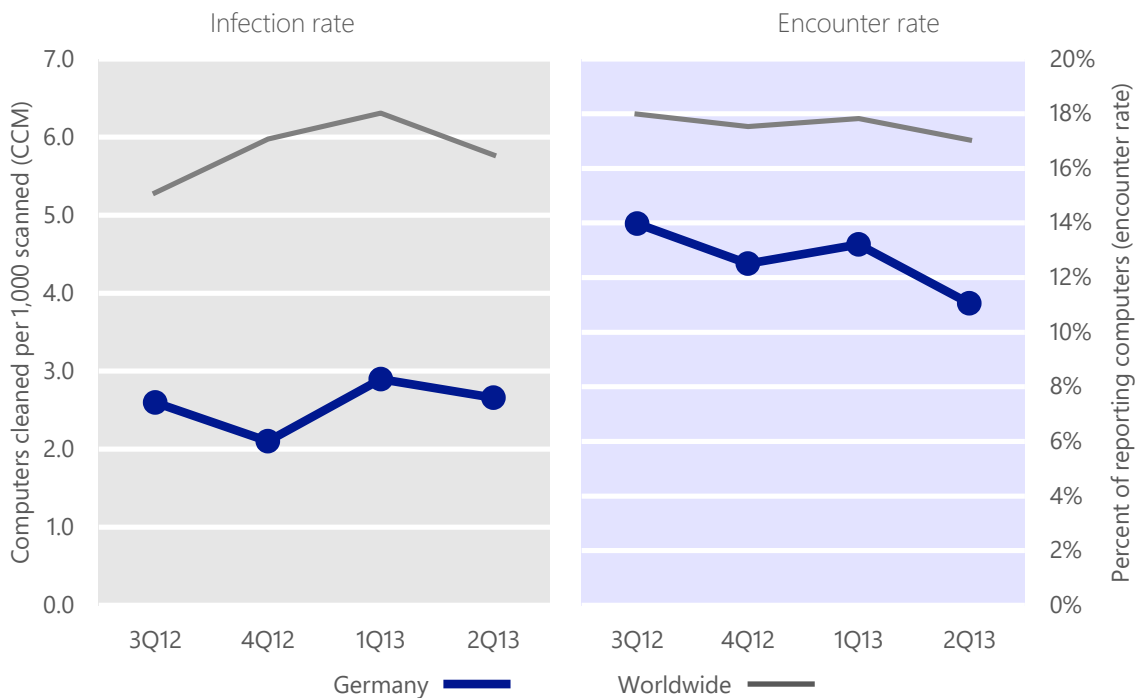
Metric	3Q12	4Q12	1Q13	2Q13
CCM, Germany	2.6	2.1	2.9	2.7
<i>Worldwide average CCM</i>	5.3	6.0	6.3	5.8
Encounter rate, Germany	14.0%	12.5%	13.2%	11.1%
<i>Worldwide average encounter rate</i>	18.0%	17.5%	17.8%	17.0%

See the *Security Intelligence Report* website at www.microsoft.com/sir for more information about threats in Germany and around the world, and for explanations of the methods and terms used here.

Infection and encounter rate trends

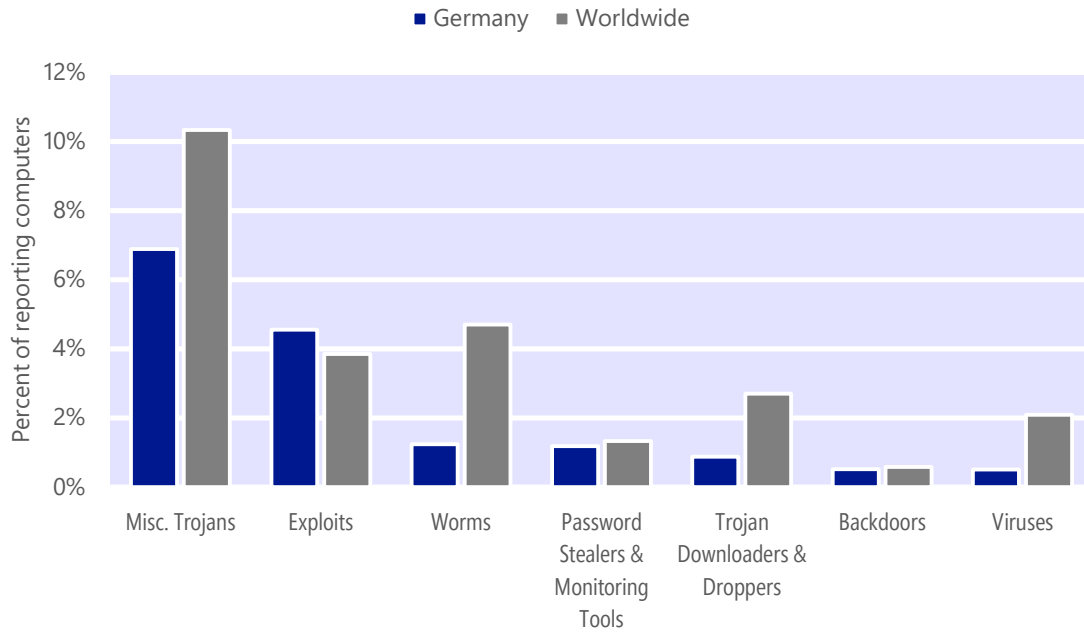
The MSRT cleaned malware on 2.7 of every 1,000 computers scanned in Germany in 2Q13 (a CCM score of 2.7, compared to the 2Q13 worldwide average CCM of 5.8). In 2Q13, 11.1% percent of computers in Germany encountered malware, compared to the 2Q13 worldwide average of 21.7% percent. The following figure shows the infection and encounter rate trends for Germany over the last four quarters, compared to the world as a whole.

Malware infection and encounter trends in Germany and worldwide



Threat categories

Malware and potentially unwanted software categories in Germany in 2Q13, by percentage of computers reporting detections



- The most common category in Germany in 2Q13 was Miscellaneous Trojans. It was encountered by 6.9 percent of all computers there, up from 6.7 percent in 1Q13.
- The second most common category in Germany in 2Q13 was Exploits. It was encountered by 4.6 percent of all computers there, down from 6.7 percent in 1Q13.
- The third most common category in Germany in 2Q13 was Worms, which was encountered by 4.6 percent of all computers there, down from 1.5 percent in 1Q13.

Threat families

The top 10 malware families in Germany in 2Q13

	Family	Most significant category	% of reporting computers
1	HTML/IframeRef	Misc. Trojans	1.7%
2	Win32/Obfuscator	Misc. Trojans	1.6%
3	Java/Blacole	Exploits	1.5%
4	JS/BlacoleRef	Misc. Trojans	0.9%
5	Java/CVE-2012-1723	Exploits	0.7%
6	Win32/Urausy	Misc. Trojans	0.7%
7	Win32/Zbot	Password Stealers & Monitoring Tools	0.6%
8	Win32/Reveton	Misc. Trojans	0.6%
9	Win32/Sirefef	Misc. Trojans	0.5%
10	Win32/Matsnu	Misc. Trojans	0.5%

- The most common threat family in Germany in 2Q13 was [HTML/IframeRef](#), which affected 1.7 percent of reporting computers in Germany. [HTML/IframeRef](#) is a generic detection for specially formed IFrame tags that point to remote websites that contain malicious content.
- The second most common threat family in Germany in 2Q13 was [Win32/Obfuscator](#), which affected 1.6 percent of reporting computers with detections in Germany. [Win32/Obfuscator](#) is a generic detection for programs that have had their purpose disguised to hinder analysis or detection by antivirus scanners. Such programs commonly employ a combination of methods, including encryption, compression, anti-debugging and anti-emulation techniques.
- The third most common threat family in Germany in 2Q13 was [Java/Blacole](#), which affected 1.5 percent of reporting computers with detections in Germany. [Java/Blacole](#) is an exploit pack, also known as Blackhole, that is installed on a compromised web server by an attacker and includes a number of exploits that target browser software. If a vulnerable computer browses a compromised website that contains the exploit pack, various malware may be downloaded and run.
- The fourth most common threat family in Germany in 2Q13 was [JS/BlacoleRef](#), which affected 0.9 percent of reporting computers with detections in Germany. [JS/BlacoleRef](#) is an obfuscated script, often found inserted into compromised websites, that uses a hidden inline frame to redirect the browser to a Blacole exploit server.

Malicious websites

Attackers often use websites to conduct phishing attacks or distribute malware. Malicious websites typically appear completely legitimate and often provide no outward indicators of their malicious nature, even to experienced computer users. In many cases, these sites are legitimate websites that have been compromised by malware, SQL injection, or other techniques, in an effort by attackers to take advantage of the trust users have invested in them. To help protect users from malicious webpages, Microsoft and other browser vendors have developed filters that keep track of sites that host malware and phishing attacks and display prominent warnings when users try to navigate to them.

Web browsers such as Windows Internet Explorer and search engines such as Bing use lists of known phishing and malware hosting websites to warn users about malicious websites before they can do any harm. The information presented in this section has been generated from telemetry data produced by Internet Explorer and Bing. See the *Microsoft Security Intelligence Report* website for more information about these protections and how the data is collected.

Malicious website statistics for Germany

Metric	3Q12	4Q12	1Q13	2Q13
Phishing sites per 1,000 hosts (Worldwide)	3.44 (5.41)	3.66 (5.10)	3.87 (4.56)	3.89 (4.24)
Malware hosting sites per 1,000 hosts (Worldwide)	5.97 (9.46)	7.71 (10.85)	9.80 (11.66)	19.12 (17.67)
Drive-by download sites per 1,000 URLs (Worldwide)	4.19 (0.56)	1.11 (0.33)	0.69 (0.50)	3.37 (1.12)



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