



**May I Help You: The Search Assistants**  
**infectionvectors.com**  
**April 2005**

**Overview**

Spyware and adware often arrives in the form of “helper” applications, software designed to push advertisements to users by monitoring search and viewing habits. Variations of the software have been around for years; versions are generally installed only after an End User License Agreement (EULA) is accepted (which indicates that other software may be placed on the machine). Its chief components are often described as adware or spyware, and some packages have contained applications that kill security services/processes.

Search Assistant (by 180Search) is an application that records the web locations a user visits and reports them back to the 180Search servers. This information is compiled and analyzed, leading to targeted advertisements on the local device in the form of pop-up windows, redirections, and additional software. IMIServ is a family of programs that download additional adware/spyware to the local device. Both of these applications have been around for years and serve as the examples for this report.

Search assistant spyware is an especially profitable venture for some companies that are capable of getting their applications on a high number of machines. The mechanisms employed to accomplish this are often less than forthright, but nonetheless allow companies to capitalize on the millions of dollars available in web referral commissions.

**180-Degree Turn**

Targeted advertising has become quite a growth industry over the last decade. The Internet has provided numerous mediums for delivering ads, and tracking user habits, that did not exist prior to the web explosion.

180Search Assistant repeatedly shows up in the adware/spyware forums as users ask how to rid their systems of the troubling and annoying software.<sup>1</sup> Although it does provide a EULA as the evidence that it is acting legitimately, it also uses tactics such as giving executables nonsensical, random names to avoid immediate recognition and detection. The 180solutions family of software has also been noted to kill security software running on the local system (a tough function to explain away when defending the code as a legitimate marketing tool).<sup>2</sup> The software will update itself, even fixing broken or missing pieces, by checking with the website upon startup.

The application itself keeps exceptional logs of what it downloads and provides to both the user and the 180Search Assistant servers. A portion of one of the logs (salm.log) is shown here (note that although each entry is in the same format as was found in the logs, all unique identifiers, including partner/merchant identifiers have been altered).<sup>3</sup>

```

03/14/05    04:20:57    1724  1328  0    2    1048  0    connecting
to ad page :
http://64.94.137.50/showme.aspx?keyword=%2ecnn%2ecom&did=495&ver=5.15&d
uid=1361tcquqavixczjtqgzyhevgnosmx&partner_id=B6674A282&product_id=495&
browser_ok=y&rnd=15&basename=salm&tzbias=5&MT=0163A241738EF7A5F7CBF97BD
D23FD7083AAA51A2E454490DAC35D1276EF2B1207&DMT=0163A241738EF7A8F6CBF97BD
D23FD7083AAA51A2E454490DF735D1276EF2B1207&WID=019DB1DED53E8000&GVI=1&HM
P=E6A4F760106CB5182E1F623D6E2948123F8560B303A57F02765CD056BBA48AAA&bid=
0&SID=FMNAXWDE&OS=5.0.2195.2&SLID=1033&ULID=1033&TLOC=1033&ACP=1252&OCP
=437&DB=iexplore.exe&IEV=5.50.4934.1&TPM=266330112&APM=33841152&TVM=214
7352576&AVM=2067390464&FDS=4294967295&LAD=1601:1:1:0:0:0&WE=5
    CAdWindow.cpp    578    salm    5.15    495
    1361tcquqavixczjtqgzyhevgnosmx    495    366704282

03/14/05    04:20:58    1724  1536  0    4    1014  0    Inserting
key ".cnn.com" with interval 21600 into SleepList
    CKeywordDictionary.cpp    122    salm    5.15    495
    1361tcquqavixczjtqgzyhevgnosmx    495    366704282

03/14/05    04:20:58    1724  1328  0    2    1004  0
    successfully connected to ads.aspx    CAdWindow.cpp    361    salm
    5.15    495    1361tcquqavixczjtqgzyhevgnosmx    495    366704282

03/14/05    04:21:57    1724  1280  0    4    1063  0    new url :
http://ar.atwola.com/html/93205690/553829876/aol?SNM=HIDBF&width=120&he
ight=90&target=_blank&TZ=300&TVAR=class%3Dus.low&CT=I
    CBrowserMonitor.cpp    61    salm    5.15    495
    1361tcquqavixczjtqgzyhevgnosmx    495    366704282

```

In the above snippet, one can see the keyword “cnn.com” picked up by the sentinel watching browsing habits as well as a connection to one of the advertiser sites. Below, the salm.log file shows the download of additional components to the local device. All transactions are controlled by the version tracker and unique identifier that salm generates for each installation.

```

03/14/05    04:10:29    1724  464    0    2    1067  0    connecting
to :
http://config.180solutions.com/config.aspx?did=495&ver=5.15&duid=1361tc
quqavixczjtqgzyhevgnosmx&partner_id=36670434A&product_id=&browser_ok=y&
rnd=9&basename=salm&tzbias=5&MT=0163A241738EF7A8F6BBF97BDD23FD7083AAA51
A2E454490DF735D1276EF2B1207&DMT=0163A241738EF7A8F6ABF97BDD23FD7083AAA51
A2E454490DF735D1276EF2B1207&WID=019DB1DED53E8000&GVI=1&HMP=E6A4F760106C
B5182E1F62303A57F02765CD056BBA48AAA&SID=FMNAXWDE&OS=5.0.2195.2&SLID=103
3&ULID=1033&TLOC=1033&ACP=1252&OCP=437&DB=iexplore.exe&IEV=5.50.4934.1&
TPM=266330112&APM=42864640&TVM=2147352576&AVM=2084282368&FDS=4294967295
&LAD=1601:1:1:0:0:0&WE=5&TCA=0&SCA=0&MRDS=0&LCAT=1601/01/01%2000:00:00
    CConfig.cpp    421    salm    5.15    495
    1361tcquqavixczjtqgzyhevgnosmx    495    366704282

```

```

03/14/05    04:10:30    1724 464 0    2    1010 0    downloaded
config info and settings have changed    CConfig.cpp 472    salm 5.15
495    1361tcquqavixczjtqgzyhevgnosmx    495    366704282

03/14/05    04:10:28    1724 464 0    4    1005 0    not
downloading boomerang - using latest version    CBoomerang.cpp    155
salm 5.15 495    1361tcquqavixczjtqgzyhevgnosmx    495
366704282

03/14/05    04:10:28    1724 464 0    2    1119 0    adding
add/remove programs entry:
HKLM\Software\Microsoft\Windows\CurrentVersion\Uninstall\salm
CInstaller.cpp    783    salm 5.15 495
1361tcquqavixczjtqgzyhevgnosmx    495    366704282

03/14/05    04:10:29    1724 1768 0    2    9004 0    keyword:
downloading file:
http://downloads.180solutions.com/keywords/kyf.450/kyf.450.mods.gz
CBaseDictionary.cpp    515    salm 5.15 495
1361tcquqavixczjtqgzyhevgnosmx    495    366704282

03/14/05    04:10:29    1724 464 0    2    1037 0    attempting
to download
http://installs.180solutions.com/Downloads/DLL/3.0/ncmyb.dll to
c:\winnt\FLEOK\salmhook.dll    CWeb.cpp    129    salm 5.15 495
1361tcquqavixczjtqgzyhevgnosmx    495    366704282

03/14/05    04:10:29    1724 1516 0    2    9104 0    actionurl:
downloading file:
http://downloads.180solutions.com/actionurls/ActionUrl.133/ActionUrl.13
3.0.gz    CBaseDictionary.cpp    318    salm 5.15 495
1361tcquqavixczjtqgzyhevgnosmx    495    366704282

```

And then the discovery of keywords and the related advertising hooks (note these “keywords” were found in ads being displayed on a site being visited):

```

03/14/05    05:55:32    1396 280 0    2    1064 0    keyword(s)
(+american*idol+robot) found in url
(http://cl.cnn.com/ctxtlink/jsp/cnn-
story.jsp?domid=contextuallinks&time=1110808551901&category=cnntvent&ur
l=http://robots.cnn.com/2005/showbiz/tv/03/14/tv.american.idol.ap/index
.html&site=cnn_tvent_dyn_ctxt)    CBrowserMonitor.cpp    353    salm
5.15 495    1361tcquqavixczjtqgzyhevgnosmx    495    366704282

03/14/05    05:55:32    1396 1216 0    2    1002 0    wm_show_ad
request received    CAdWindow.cpp    138    salm 5.15 495
1361tcquqavixczjtqgzyhevgnosmx    495    366704282

03/14/05    05:55:32    1396 1216 0    2    1003 0    already
showing an ad - not showing requested ad    CAdWindow.cpp    143    salm
5.15 495    1361tcquqavixczjtqgzyhevgnosmx    495    366704282

03/14/05    05:55:32    1396 280 0    4    1014 0    Inserting
key "american*idol" with interval 21600 into SleepList
CKeywordDictionary.cpp    122    salm 5.15 495
1361tcquqavixczjtqgzyhevgnosmx    495    366704282

```

What is the purpose of such software? At first glance, the motive may seem to be simply pushing targeted advertisements to the general Internet-using public. Direct marketing has become more and more personal over the years, this being the logical extension of that practice. However, independent researchers have found another goal of such software. When 180solutions takes users to web sites that the user may not have intended to visit, they ensure that the destination web site “knows” that 180solutions was responsible for the connection. In this way, they are making sure that 180solutions receives any commission that is available for the referral.

One of the files dropped by the initial installation is a list of major web sites with that pay the commissions as mentioned above (directly or via affiliate programs). In addition, it includes “keywords” that trigger a redirection, pop-up, etc. Benjamin Edelman has documented the exact nature of the 180solutions software, and its proclivity to “pirate” commissions from other referring services/sites extensively in an excellent research piece.<sup>4</sup> In it he shows how 180solutions gets their software installed by more subversive and stealthy means than the EULA/installation method and the tricks used to grab referral fees.

### **Plugging Away**

In a similarly nefarious fashion, IMIServ plant itself on an unsuspecting user’s box by exploiting the capabilities of ActiveX controls. These “drive by” installations plague web surfers that may do nothing more than connect to a site that uses a banner ad service to generate revenue.<sup>5</sup> Much of the software that supports this program is retrieved from the IEPlugin.com (IEPL) site.

The installation routine sets an autostart entry in the Registry to ensure the application is launched with every reboot, from a strings output of the executable:

```
0000D274    0040D274    SOFTWARE\Microsoft\Windows\CurrentVersion\Run
0000D2A4    0040D2A4    %swupdt.exe
```

The rights to add new software once this application is present on a system are mentioned in the lengthy agreement that accompanies many of the installations. An updated version of the agreement is available on the IEPL web site. IEPlugin.com’s current EULA contains the following:<sup>6</sup>

6. UPDATES. You grant IEPL permission to add/remove features and/or functions to the Software and/or Service, or to install new applications, at any time, in IEPL’s sole discretion with or without your knowledge and/or interaction. You also grant IEPL permission to make any changes to the Software and/or Service provided at any time.

The application creates a unique identification number for each copy (much in the same way as worms like Beagle do) and uses that to track the browsing habits. The identifier is uploaded to the ieplugin.com site:

```
0000D2DC    0040D2DC    0    Accept: */*
```

0000D2E9	0040D2E9	0	Host: sysupdate.ieplugin.com
0000D310	0040D310	0	HTTP/1.0
0000D324	0040D324	0	&level=
0000D32C	0040D32C	0	&fstat=6
0000D338	0040D338	0	&ATL=YES
0000D344	0040D344	0	&ATL=NO
0000D34C	0040D34C	0	/?UID=%s&VERSION=%s

The initial retrieval from ieplugin.com places the following files on a user's machine:

```
abi.exe  
bargain4.exe  
clipg.exe  
extract.exe  
loud.exe  
qool.exe  
rgrt.exe  
salmbundle.exe  
ssk.exe  
systb.dll  
winobject.dll  
winserv.exe
```

These applications match keywords lifted from active browser windows and supply pop-up advertisements to the user's session. Often, browser redirection is used to take potential customers to the advertiser, a new form of "marketing" not available in other mediums.

The ferocity of the installations, their proclivity to repair themselves and add new pieces, and the level of annoyance has lead many remediation sites to label it the IMIServ "virus."

## Helping Hands

Although many people have called these applications "viruses,"<sup>7</sup> they cannot be considered such under the traditional definition of the term. They are self-replicating programs and there is no parasitic quality (although it could be argued they do consume resources from their hosts without consent in the same way biological parasites do). Nonetheless, there is certainly enough evidence to consider them malware. Applications that forcibly change the behavior of a system without the explicit acceptance of its owner, open the door for additional applications, and transmit data back to a collection source are most often referred to as Trojan Horses, or Backdoors (as well as hybrid terms such as Backdoor Trojans).

Many software developers faced with having their products called spyware (including 180solutions, which does provide its technical defense on its website) would point to the acceptance of a EULA. Although that is a valid defense, it would be difficult to stick to this policy for installing tracking software. With the exceptional amount of money available in the paid referral market, it is inevitable that a group will capitalize on two things: 1) it is possible to install code without consent, 2) if you can get your code a machine, it is likely that you can remove/disable all other competing software and pirate

referral profits from the pirates. In fact, this has been alleged a number of times; adware that carries process killers has been well documented, sometimes those routines are aimed at competing adware applications.<sup>8</sup>

Given the state of the “marketplace,” it is easy to see why many adware/spyware creators may be forced into less than ethical decisions to maintain their customers. The poor choices and strategies of just a few organizations would be enough to give the industry a bad reputation; unfortunately, it seems to most users that every adware distributor is malicious.

Numerous anti-spyware groups have grown out of a worldwide frustration with the threat.<sup>9</sup> The malware research community has wrestled with whether the software is in a unique category (i.e.: spyware) or is just another incarnation of the Trojan. The difficulty in dealing with spyware can completely avoid such discussions if an organization views the threat as nothing more than another reason to enforce configuration management practices and harden client devices against intrusion. Users, being familiar with the plight of their home computers, will likely be easy to convince of the dangers of spyware and will accept restrictions on browsing options if required. Companies should take a thorough look at spyware in terms of resource costs (bandwidth and computing power sucked away) and data costs (threats to data confidentiality and integrity). The resources available at [infectionvectors.com](http://infectionvectors.com) can help evaluate assets, prioritize mitigation tactics, and plan overall malware defense strategies.

## References

1. The core application for the Search Assistant, SALM.EXE, is catalogued as spyware/adware at LI Utilities:

<http://www.liutilities.com/products/wintaskspro/processlibrary/salm/>

Symantec catalogs it as Adware and describes the routines of this software:

<http://sarc.com/avcenter/venc/data/adware.180search.html>

Called ADW\_NCAGE (because of 180solution's Comparison Alternative Shopping Engine) by Trend

[http://www.trendmicro.com/vinfo/grayware/ve\\_graywareDetails.asp?GNAME=ADW%5FNCASE%2EC](http://www.trendmicro.com/vinfo/grayware/ve_graywareDetails.asp?GNAME=ADW%5FNCASE%2EC)

2. Some 180Search Applications Have Additional Code that Kills Security Software

<http://vil.mcafeesecurity.com/vil/content/Print128590.htm>

3. All logs are from a device with a running installation of the software described. The only change, outside of snipping from the original context, is to change the characters in the unique identifiers.

4. Research Indicates 180solutions Artificially Inflates Tracking Statistics for Merchant Pay-Per-Click This is a very interesting study, very detailed:

<http://www.benedelman.org/spyware/180-affiliates/>

5. The IMIServ Family is described by Computer Associates:

<http://www3.ca.com/securityadvisor/virusinfo/virus.aspx?id=41623>

It is catalogued as Backdoor.IMIServ (called Trojan Horse) by Symantec:

<http://securityresponse.symantec.com/avcenter/venc/data/backdoor.imiserv.html>

And a description of its "drive by" nature by Symantec:

<http://sarc.com/avcenter/venc/data/adware.ieplugin.html>

6. EULA for IMIServ

<http://www.ieplugin.com/terms.html>

and: c). This agreement is governed by the laws of Belize. The United Nations Convention on Contracts for the Sale of Goods does not apply to this Agreement.

7. Just as an example, the first link that appeared during an MSN search that supports posters calling this a virus:

[http://www.answersthatwork.com/Tasklist\\_pages/tasklist\\_w.htm](http://www.answersthatwork.com/Tasklist_pages/tasklist_w.htm)

8. "Adware cannibals feast on each other." Stefanie Olsen, 7 December 2004. CNET New.com.

[http://news.com.com/Adware+cannibals+feast+on+each+other/2100-1024\\_3-5482276.html](http://news.com.com/Adware+cannibals+feast+on+each+other/2100-1024_3-5482276.html)

9. One response from Microsoft is their Spyware Information Page:

<http://www.microsoft.com/athome/security/spyware/strategy.msp>

## Appendix A: Snippets from the SALM logs:

52048	867911	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52049	867912	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52050	867913	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52052	867915	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52053	867916	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52054	867917	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52055	867918	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52056	867920	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52057	867921	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52058	867922	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52059	867923	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52060	867924	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52061	867925	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52062	867926	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52063	867927	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52064	867928	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52065	867929	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp
52066	867930	prevacid.com	prevacid_offers	prevacid_offer	thank_you.asp

73672	889911	earthsake.com	shopsite_sc	shopping_cart	thankyou
73673	498456	france.intercasino.com	/getting_started	/thankyou	.shtml
73674	483308	france.intercasino.com	/getting_started	/thankyou	.shtml
73675	512990	deutsch.intercasino.com	/getting_started	/thankyou	.shtml
73676	483329	deutsch.intercasino.com	/getting_started	/thankyou	.shtml
73677	512956	italia.intercasino.com	/getting_started	/thankyou	.shtml
73678	483330	italia.intercasino.com	/getting_started	/thankyou	.shtml
73679	512991	espana.intercasino.com	/getting_started	/thankyou	.shtml
73680	483331	espana.intercasino.com	/getting_started	/thankyou	.shtml
73681	902311	.loanselect.us	/fast_loan_submit	.php	
73682	902312	.loanselect.us	/fast_loan_submit	.php	
73684	931050	.loanselect.us	/fast_loan_submit	.php	
73685	931051	.loanselect.us	/fast_loan_submit	.php	

## Appendix B: Snippets from SALM.LOG:

```
; Search Assistant Log File
; 5.7
; New log session started. 03/14/2005, 04:10:28 (Process: 1724)
03/14/05 04:10:27 1724 1572 0 4 1061 0 180SA
started - version : 5.15.15 180SA.cpp 386 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
03/14/05 04:10:28 1724 1572 0 2 1145 0 removing
extra boomerangs - leaving 1 behind CUtil.cpp 338 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
03/14/05 04:10:28 1724 1328 0 2 1000 0 ad thread
started CAdThread.cpp 118 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
03/14/05 04:10:28 1724 1572 0 2 1076 0 starting
dde thread CDdeUrlDetect.cpp 254 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
03/14/05 04:10:28 1724 1280 0 2 1077 0 dde thread
started CDdeUrlDetect.cpp 145 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
03/14/05 04:10:28 1724 1572 0 2 1055 0 ie monitor
thread started CIEMonitor.cpp 74 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
03/14/05 04:10:28 1724 1572 0 2 1119 0 adding
add/remove programs entry:
HKLM\Software\Microsoft\Windows\CurrentVersion\Uninstall\salm
CInstaller.cpp 783 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
03/14/05 04:10:28 1724 1572 1 4 5034 126 could not
find the dll CMainWnd.cpp 198 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
03/14/05 04:10:28 1724 1384 0 2 9005 0 keyword:
entering the load dictionary file thread CBaseDictionary.cpp 213
salm 5.15 495 136ltcquqavixczjtqgzyhevgnosmx
366704282
03/14/05 04:10:28 1724 856 0 2 9105 0 actionurl:
entering the load dictionary file thread CBaseDictionary.cpp 213
salm 5.15 495 136ltcquqavixczjtqgzyhevgnosmx
366704282
03/14/05 04:10:28 1724 1164 0 2 9205 0 geourl:
entering the load dictionary file thread CBaseDictionary.cpp 213
salm 5.15 495 136ltcquqavixczjtqgzyhevgnosmx
366704282
03/14/05 04:10:28 1724 464 0 4 1115 0 Timer
expired. Now(4165341251) Begin(4134582824) Diff(30758427) Delay(20)
CTimer.cpp 61 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
03/14/05 04:10:28 1724 856 0 2 9100 0 actionurl:
loading from file CBaseDictionary.cpp 573 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
03/14/05 04:10:28 1724 1164 0 2 9200 0 geourl:
loading from file CBaseDictionary.cpp 573 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
03/14/05 04:10:28 1724 1384 0 2 9000 0 keyword:
loading from file CBaseDictionary.cpp 573 salm 5.15 495
136ltcquqavixczjtqgzyhevgnosmx 366704282
```

```

03/14/05    04:10:29    1724  1164  0    1    9208  0    geourl:
adding keywords - current keyword count = 0    CBaseDictionary.cpp
759  salm  5.15  495  136ltcquqavixczjtqgzyhevgnosmx
366704282
03/14/05    04:10:29    1724  1164  0    1    9210  0    geourl:
processed 77 keywords - sorting...    CBaseDictionary.cpp    828  salm
5.15  495  136ltcquqavixczjtqgzyhevgnosmx    366704282
03/14/05    04:10:29    1724  1164  0    1    9211  0    geourl:
dictionary sorted CBaseDictionary.cpp    832  salm  5.15  495
136ltcquqavixczjtqgzyhevgnosmx    366704282
03/14/05    04:10:29    1724  1164  0    2    9201  0    geourl: 77
keywords were added - new keyword count = 77    CBaseDictionary.cpp
837  salm  5.15  495  136ltcquqavixczjtqgzyhevgnosmx
366704282
03/14/05    04:10:29    1724  1164  0    2    9206  0    geourl:
leaving the load dictionary file thread    CBaseDictionary.cpp    231
salm  5.15  495  136ltcquqavixczjtqgzyhevgnosmx
366704282
03/14/05    04:10:29    1724  464  0    2    1067  0    connecting
to :
http://config.180solutions.com/config.aspx?did=495&ver=5.15&duid=136ltc
quqavixczjtqgzyhevgnosmx&partner_id=366704282&product_id=&browser_ok=y&
rnd=9&basename=salm&tzbias=5&MT=0163A241738EF7A8F6CBF97BDD23FD7083AAA51
A2E454490DF735D1276EF2B1207&DMT=0163A241738EF7A8F6CBF97BDD23FD7083AAA51
A2E454490DF735D1276EF2B1207&WID=019DB1DED53E8000&GVI=1&HMP=E6A4F760106C
B5182E1F623D6E2948123F8560B303A57F02765CD056BBA48AAA&SID=FMNAXWDE&OS=5.
0.2195.2&SLID=1033&ULID=1033&TLOC=1033&ACP=1252&OCP=437&DB=iexplore.exe
&IEV=5.50.4934.1&TPM=266330112&APM=42864640&TVM=2147352576&AVM=20842823
68&FDS=4294967295&LAD=1601:1:1:0:0:0&WE=5&TCA=0&SCA=0&MRDS=0&LCAT=1601/
01/01%2000:00:00    CConfig.cpp 421  salm  5.15  495
136ltcquqavixczjtqgzyhevgnosmx    366704282
03/14/05    04:10:30    1724  464  0    2    1010  0    downloaded
config info and settings have changed    CConfig.cpp 472  salm  5.15
495  136ltcquqavixczjtqgzyhevgnosmx

```