

Title: Advanced Troubleshooting Techniques of Websense Web Security Products

Audio information:

- This presentation incorporates STREAMING AUDIO.
- Use of speakers or headsets is required. *If unable to hear streaming audio or it is choppy,* a limited number of dial-in numbers are available.

Dial-in numbers:

- U.S. dial-in numbers:
 - Toll free: 1-888-373-5705, pass-code: 922187
 - Toll: 1-719-457-3840, pass-code: 922187
- Find international dial-in numbers at:
 - http://www.websense.com/dec2009_international
 - Pass-code: 922187



Advanced Troubleshooting Techniques of Websense Web Security Products

Support Webinars

web security I data security I email security

09 Websense, Inc. All rights reserved.

101010111010

00101010101101010

01100100110101101





Title: Technical Support Specialist

- Employee of Websense since 2005
- Websense Certified Web Security Associate
- CCNA (In progress)
- Graduate of Coleman College



- Identify the cause of common issues for troubleshooting
- Demonstrate comprehensive troubleshooting techniques used by Websense Technical Support
 - Filtering Service troubleshooting via ConsoleClient
 - User Service troubleshooting via DSTrace
 - WebsensePing
 - TestLogServer
 - Network Agent troubleshooting
 - Log Server troubleshooting



What is ConsoleClient?

 A command-line utility used to retrieve statistics and diagnostic information for Websense services.

What do I get by running ConsoleClient?

- View the user name/IP address map used by transparent identification agents and Filtering Service
- Retrieve a list of manually authenticated users from Filtering Service
- View status and http lookup requests received by Filtering Service (via a Filtering Service, or WISP, trace)



To access ConsoleClient, open a command prompt and navigate to the appropriate directory:

- Windows default:
 C:\Program Files\Websense\bin
- Linux default: /opt/Websense/

The command to run the utility is:

- Windows:
 - ConsoleClient </P address> <diagnostic port>
- Linux:

./WebsenseTools -d </P address> <diagnostic port>



Default diagnostic ports for transparent identification agents:

- DC Agent: 30601 (Windows)
- Logon Agent: 30603 (Windows)
- eDirectory Agent: 30701 (Novell)
- RADIUS Agent: 30801 (Windows)



C:\WINDOWS\system32\cmd.exe C:\Program Files\Websense\bin>ConsoleClient 10.212.5.168 30601_





C:\WINDOW5\system32\cmd.exe - ConsoleClient 10.212.5.168 30601	_ 🗆 🗙
DIAGNOSTICS>	_
*** Diagnostics Dump Options ***	
1) Dump to Local File 2) Dump to Remote File 3) Dump to Socket	
M> Return to main menu	
> 1_	

C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 30601	_ 🗆 🗡
DIAGNOSTICS>	
*** Options ***	
Data Dump	
Level: 3_	



_ 0

🖾 C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 30601	_ 🗆 🗡
DIAGNOSTICS>	
*** Options ***	
Data Dump	
Level: 3	
Filename: dc1216.txt_	

C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 30601

***** PrintSelf Modules *****
1) Comm Demultiplexer
2) Comm Connection Pool
3) Xid Ini Parameters
4) DC Agent Workstation-IP map
5) DC Agent Directory Service
6) XID User Map
***** Options *****
A) change Dump Option
B) change Level setting
C) change Local Filename
M) return to the main menu
Q) quit
> 6_



C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 30601	🛤 C:\WINDOWS\system32\cmd.exe
******** Settings ******* ** Dump to Local File ** Level: 3	********* Settings ******* ** Dump to Local File ** Level: 3 ** Filename: dc1216.txt ******
** Filename: dc1216.txt *******************************	***** PrintSelf Modules ***** 1> Comm Demultiplexer
<pre>***** PrintSelf Modules ***** 1> Comm Demultiplexer 2> Comm Connection Pool 3> Xid Ini Parameters 4> DC Agent Workstation-IP map 5> DC Agent Directory Service 6> XID User Map ***** Options *****</pre>	 2) Comm Connection Pool 3) Xid Ini Parameters 4) DC Agent Workstation-IP map 5) DC Agent Directory Service 6) XID User Map ***** Options ***** A) change Dump Option B) change Level setting
A) change Dump Option B) change Level setting C) change Local Filename M) return to the main menu	C> change Local Filename M> return to the main menu Q> quit
Q) quit	> q C:\Program Files\Webserse\bir\reterad do1216 tyt
> q	C. Trogram Files Websense (bin/ notepad aci216.txt_



The text file looks something like this:

Ď dc1216.txt - Notepad	
Eile Edit Format View Help	
XID User Map PrintSelf	
Snapshot time: 12–16–2009 08:00:24.775596	
Number of entries in map is : 1	
IP : 10.0.0.8 User: TESTADW2K3\wdemo]] Timeout: 12-17-2009 06:26:25.0 Timestamp: 12-16-2009 06:06:56.0 Agent 1	type: DC
	-



_ 10

C:\WINDOWS\system32\cmd.exe

C:\Program Files\Websense\bin>ConsoleClient 10.212.4.169 30603_





📾 C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.4.169 30603	_ 🗆 🗙
DIAGNOSTICS>	
*** Diagnostics Dump Options ***	
1) Dump to Local File 2) Dump to Remote File 3) Dump to Socket	
M> Return to main menu	
> 1_	

C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.4.169 30603	_ 🗆 🗡
DIAGNOSTICS>	_
*** Options ***	
Data Dump	
Level: 3_	



🕰 C:\WINDOWS\s	stem32\cmd.exe - ConsoleClient 10.212.4.169 30603				
DIAGNOSTICS>	IAGNOSTICS>				
*** Options	xxx				
Data Dump					
Level: 3					
Filename: Lí	Map1216.txt_				

🕰 C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.4.169 30603	
DIAGNOSTICS>	A
******** Settings ******	
** Dump to Local File	
** Level: 3	
** Filename: LAMap1216.txt	
***** PrintSelf Modules ****	
1) Comm Demultiplexer	
2) Comm Connection Pool	
37 XID User Map	
***** Options ****	
A) change Dump_Option	
B) change Level setting	
C) Change Local Filename	
M) return to the main menu	
Q> quit	
N 2	







The text file looks something like this:

🐻 LAMap1216.txt - Notepad	_ 🗆 🗙
Ele Edit Format Yew Help	
xID User Map PrintSelf Snapshot time: 12-16-2009 08:40:27.30966 Number of entries in map is : 1 IP : 10.1.4.9 User: TESTADW2K3\JCulhi Timeout: 12-16-2009 08:55:52.0 Timestamp: 12-16-2009 08:40:02.0 Agent type	ELOGON

- When using ConsoleClient to view DC Agent information, the user map option is either #5 or #6 (depending on version).
- When using ConsoleClient to view Logon Agent, eDirectory Agent, and RADIUS Agent data, the user map option is #3.
- The following Knowledge Base article (3349), discusses additional options you can use with the ConsoleClient utility:

<u>http://kb.websense.com/article.aspx?article=3349&p=12</u>



When you use manual authentication:

- By default, the user map timeout for manually authenticated users is 10 minutes.
- If a user provides credentials within a browser session, the browser re-caches the credentials for another 10 minute session.
- Users who close the browser and open a new browser after the 10 minute session has passed are prompted to re-authenticate.
- Users who open a new browser within the 10 minute manual authentication window are NOT prompted to reauthenticate.



When unidentified users browse to a URL, they receive this prompt: Connect to 10.212.5.168

Connect to 10.212.5.168		? ×
	G	
The server 10.212.5. and password.	.168 at Websense requires a use	ername
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).		
<u>U</u> ser name:	2	•
Password:		
	Remember my password	
	ОК Са	ancel

Log on with network credentials, using one of the following formats:

- User name and password
- Domain\User name and password



_ 10

c:\WINDOW5\system32\cmd.exe C:\Program Files\Websense\bin>ConsoleClient 10.212.5.168 15869_





C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	_ 🗆 🗙
DIAGNOSTICS>	
*** Diagnostics Dump Options ***	
1) Dump to Local File 2) Dump to Remote File 3) Dump to Socket	
M> Return to main menu	
> 1_	

C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	_ 🗆 🗙
DIAGNOSTICS>	^
*** Options ***	
Data Dump	
Level: 3_	



📾 C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	
DIAGNOSTICS>	▲
*** Options ***	
Data Dump	
Level: 3	
Filename: ManAuth1216.txt_	
••• C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	_ 8
DIAGNOSTICS>	
<pre>****** Settings ****** ** Dump to Local File ** Level: 3 ** Filename: ManAuth1216.txt ***********************************</pre>	
***** Options ***** A> change Dump Option B> change Level setting C> change Local Filename	
M) return to the main menu Q) quit	
> 1	



av C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	🖎 C:\WINDOWS\system32\cmd.exe
5) XID User Map	7) Embedded URL
6) Ini Parameters	8) Category Agent
7) Embedded URL	9) Log Agent
8) Category Agent	10) Tunneled Protocols
9) Log Agent	11) Quota Agent
10) Tunneled Protocols	12) Http Agent
11) Quota Agent	13) Role Data
12> Http Agent	14) Role Agent
13> Role Data	15) Database
14> Role Agent	16) Policy Data
15> Database	17> Subscription Tracker
16> Policy Data	18) Protocol Policy
17> Subscription Tracker	19> WISP Agent
18> Protocol Policy	
19> WISP Agent	***** Options ****
	A) change Dump Option
***** Options ****	B) change Level setting
A) change Dump Option	C) change Local Filename
B) change Level setting	
C) change Local Filename	M) return to the main menu
	Q> quit
M) return to the main menu	
Q> quit	p <
	C:\Puoguam Files\Websense\bin\ManQuth1216 tyt



25

📕 ManAuth1216.txt - Notepad

<u>File Edit Format View Help</u>

UserMap - PrintSelf - Level: 3 Time: wed Dec 16 08:34:56.860 2009

UserMap

size of User Map: 1

contents of User Map: expires: 12-16-2009 08:44:56.0 username: LDAP://10.0.1.155 OU=Technical Support Specialists,OU=US Technical Services,DC=testadw2k3,DC=techsupport2k3,DC=com/wiley DeMoll ip: 10.0.0.8

Filtering Service (WISP) Trace



- A Filtering Service (WISP) trace shows whether Filtering Service is responding to server status requests from Network Agent or an integration product.
 - Should the integration not receive a response from Filtering Service within its time limit, it will fail open or closed (permitting or blocking all requests), as configured.
 - Filtering Service normally responds to server status requests within 1 minute.

Filtering Service (WISP) Trace



Symptoms of Filtering Service is not responding in a timely manner include:

- Latency of Web pages loading
- Web pages may load partial or no data
- Verify that Filtering Service responds correctly to URL requests



C:\WINDOW	/S\system32\cmd.exe			
C:\Program	Files\Websense\bin>ConsoleClient	10.212.5.168	15869_	

C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	_ 🗆 🗡
DIAGNOSTICS>	^
***** Facilities *****	
1) Tracing 2) PrintSelf	
Q> Quit	
> 1_	



C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869
DIAGNOSTICS>	DIAGNOSTICS>
<pre>***** Trace Modules ***** 1> User Map 2> Comm Connection Handler 3> Comm Connection Pool 4> TransId Service 5> Xid User Map 6> Http Agent 7> Http Requests 8> WISP M> return to the main menu Q> quit > 8_</pre>	<pre>************************************</pre>

Running a WISP Trace



🔤 C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	_ 🗆 🗡
DIAGNOSTICS>	_
***** Trace Options ****	
New Buffer Size (Minimum value is 2KB and Maximum value is 10000KB): 1000	ð_

C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	_ 🗆 🗡
DIAGNOSTICS>	^
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Mode: Overwrite Buffer: 10000 KB	
1) Enable/Disable Tracing 2) Dump Decoded Buffer 3) Dump Raw Buffer 4) Decode From File	
A) Set Buffer Size B) Set Mode P) Return to Previous Menu	
> 1_	

Running a WISP Trace





- Open a Web browser (Internet Explorer or Firefox) and browse to a URL:
 - <u>http://www.mexico.com</u>
 - http://jellybelly.com



C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	
DIAGNOSTICS>	DIAGNOSTICS>	
<pre>************************************</pre>	<pre>************************************</pre>	
A> Set Buffer Size B> Set Mode P> Return to Previous Menu > 1_	A> Set Buffer Size B> Set Mode P> Return to Previous Menu > _	



C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869

DIAGNOSTICS>

```
*******
  Module: WISP
  Status: Disabled
  Mode: Overwrite
  Buffer: 10000 KB
******************
```

- 1) Enable/Disable Tracing
- 2) Dump Decoded Buffer
- Dump Raw Buffer
 Decode From File
- A) Set Buffer Size B) Set Mode P) Return to Previous Menu

> 2_

C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869

DIAGNOSTICS>

*** Trace Options ***

- 1) Dump to Local File 2) Dump to Remote File 3) Dump to Socket
- M) Return to main menu
- > 1_



websense

ESSENTIAL INFORMATION PROTECTION"

C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869	
DIAGNOSTICS>	_
*** Options ***	
Data Dump	
Filename: Wisp1216.txt	
Format Option: 0_	



35

C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869 DIAGNOSTICS> ***** Module: WISP Status: Disabled Mode: Overwrite

Buffer: 10000 KB Dump Option: Local File File Name: Wisp1216.txt File Format: 0 *****

1) Enable/Disable Tracing

- 2) Dump Decoded Buffer
- Dump Raw Buffer 3>
- Decode From File 4)
- A) Set Buffer Size
- B) Set Mode
- Change Dump Option C>
- D) Change File Format E) Change Local Filename
- P) Return to Previous Menu

C:\WINDOWS\system32\cmd.exe - ConsoleClient 10.212.5.168 15869

DIAGNOSTICS>

***** Trace Modules *****

- 1) User Map
- Comm Connection Handler 2)
- 3) Comm Connection Pool
- 4) TransId Service
- 5) Xid User Map
- 6) Http Agent
- 7) Http Requests
- 8) WISP
- M) return to the main menu Q) quit

q_



websense[®]

36

Open the file with a text editor, such as Notepad, to see the results.



Websense[®]

ESSENTIAL INFORMATION PROTECTION"



- Directory service tracing (DSTrace) is a way to identify user information collected by Websense software components.
 - Used to identify why user and group filtering policies are not applied
 - Shows whether User Service can collect user information from domain controllers
- By default, User Service updates user and group information every 3 hours (not constantly).



To configure directory service tracing:

- 1. Navigate to the Websense bin directory (C:\Program Files\Websense\bin or /opt/Websense/bin/, by default.
- 2. Open the websense.ini file in a text editor.
- 3. Append the following parameters to the end of the file: [DirectoryService] BindLog=true GroupLog=true CacheLog=true
- 4. Save and close the file.
- 5. Restart Websense User Service.

User Service Troubleshooting (DSTrace)



- With the trace enabled, any time User Service queries the directory service user or group information, the request is logged.
 - The log file is called dstrace.txt, and located in the Websense bin directory.
- To create data to analyze:
 - Have a known user browse to a specific Web site.
 - Add a new directory (user or group) client in Websense Manager.
 - Use the Save All button to save changes in Websense Manager.

User Service Troubleshooting (DSTrace)



DSTrace example output

The following is a User Service trace sample:

Thu Oct 09 10:33:53 2003 - ldap_search_s(John J. User) primary group CN=Domain Users, CN=Users, DC=tomc, DC=com Thu Oct 09 10:33:53 2003 - ldap_search_s(John J. User) group = LDAF://10.10.1.7 <ldap://10.10.1.7> CN=Builtin, DC=tomc, DC=com/Adcount Operators Thu Oct 09 10:33:53 2003 - ldap_search_s(John J. User) group = LDAF://10.10.1.7 <ldap://10.10.1.7> CN=Users, DC=tomc, DC=com/Admin Tools Thu Oct 09 10:33:53 2003 - ldap_search_s(John J. User) group = LDAF://10.10.1.7 <ldap://10.10.1.7> OU=Exchange Distribution Lists, OU=TCMC, DC=tomc, DC=com/All E-Mail Users Thu Oct 09 10:33:53 2003 - ldap_search_s(John J. User) group = LDAF://10.10.1.7 <ldap://10.10.1.7> OU=Exchange Distribution Lists, OU=CCMC, DC=tomc, DC=com/Alliance Apps Thu Oct 09 10:33:53 2003 - ldap_search_s(John J. User) group = LDAF://10.10.1.7 <ldap://10.10.1.7> OU=APPLICATIONS, OU=TCMC, DC=tomc, DC=com/Alliance DataLoaders Thu Oct 09 10:33:53 2003 - ldap_search_s(John J. User) group = LDAF://10.10.1.7 <ldap://10.10.1.7> OU=APPLICATIONS, OU=TCMC, DC=tomc, DC=com/Alliance DataLoaders Thu Oct 09 10:33:53 2003 - ldap_search_s(John J. User) group = LDAF://10.10.1.7 <ldap://10.10.1.7> OU=APPLICATIONS, OU=TCMC, DC=tomc, DC=com/Alliance DataLoaders Thu Oct 09 10:37:09 2003 - ldap_search_s(John J. User) group = LDAF://10.10.1.7 <ldap://10.10.1.7> OU=BHS,OU=TCMC, DC=tomc, DC=com/BHS Thu Oct 09 10:37:09 2003 - ldap_search_s(SANDIEGO/business) user = CN=John User,OU=VPN, DC=isec, DC=tomc, DC=com Thu Oct 09 10:37:09 2003 - ldap_search_s(SANDIEGO/business) error 2 users found Thu Oct 09 10:37:09 2003 - ldap_search_s(SANDIEGO/business) called server 10.10.1.7 filter (\$(objectclass=domain)(name=\54\52\49\43\49\54\59\); oontext Thu Oct 09 10:37:09 2003 - ldap_search_s(SANDIEGO/business) completed with Success Thu Oct 09 10:37:09 2003 - ldap_search_s(SANDIEGO/business) domain not found Thu Oct 09 10:37:09 2003 - ldap_search_s(SANDIEGO/business) user not found

You cannot select different LDAP paths to a user object when more than one object for that user exists in Active Directory. WebsensePing allows you to determine which category a certain URL belongs to.

 Since a WebsensePing does NOT rely on data passed from other network applications or services, it can test internal Websense processes

For a list of WebsensePing parameters:

- Windows:

Navigate to the Websense bin directory and enter WebsensePing.exe ?

– Linux:

Navigate to the /opt/Websense/ directory and enter: ./WebsenseTools -p ?

WebsensePing



- 0

_ 8 ×

🚾 C:\WINDOWS\system32\cmd.exe

C:\Program Files\Websense\bin>WebsensePing -m 8 -url http://mexico.com_

C:\WINDOWS\system32\cmd.exe

C:\Program Files\Websense\bin>WebsensePing xico.com	-uip	10.212.5.168	-m 8	-url	http://me	Ē
Sending HTTP_LOOKUP_REQUEST						

URL = http://mexico.com User Name = Source IP = 10.212.5.168 Destination IP = 192.5.73.105

Disposition = CATEGORY_BLOCKED Lookup Code = WISP_URL_BLOCKED Category = Travel Lookup Type = Ø Protocol ID = 1 Run Analytics = False Logging Code = 1 Protocol Cache TTL = Ø URL Cache Cmd = Ø URL Cache Type = Ø URL Cache TTL = Ø

```
Block Message = HTTP/1.0 302 Moved
Location: http://10.212.5.168:15871/cgi-bin/blockpage.cgi?ws-session=687865862
Pragma: no-cache
Cache-Control: no-cache
```

Elapsed Time = 1 ms

AVG TIME PER REQUEST = 1 ms



TestLogServer is a command-line utility that shows how URL Web traffic is seen by an integration or port span.

- Useful for identifying URLs that need to be recategorized without permitting an entire category
- Shows whether or not Websense software is seeing user names within URL Web traffic requests

Why is this utility helpful?

- Allows you to identify whether or not user names are being identified within URL requests
- Allows you to identify whether the URLs you are trying to re-categorize are blocked or permitted

TestLogServer



C:\WINDOWS\system32\cmd.exe

C:\Program Files\Websense\bin>TestLogServer

TestLogServer version 7.1.0

Could not bind to port 55805. (Is it already in use?)

C:\Program Files\Websense\bin>_

C:\WINDOWS\system32\cmd.exe

C:\Program Files\Websense\bin>LogServer -s Service stopped.

C:\Program Files\Websense\bin>_

_ 0

TestLogServer



- 0 ex C:\WINDOWS\system32\cmd.exe C:\Program Files\Websense\bin>TestLogServer TestLogServer version 7.1.0 Accepting connections on port 55805... Core code has connected. Using version 3 time=Fri Nov 13 13:40:18 2009 version=3 server=10.212.5.168 source=10.212.5.168 dest=157.166.255.19 "http" protocol= "http://www.cnn.com/" url= port= "80" (NEWS AND MEDIA) category= (Category Not Blocked) disposition= 1026 UU app type= keyword= user= "LDAP://10.212.1.5 OU=Technical Support Specialists,OU=US Technical Services, DC=testadw2k3, DC=techsupport2k3, DC=com/Wiley DeMoll" bytes sent=1130 bytes received=21171 duration=2 C:\Program Files\Websense\bin>

- TestLogServer output shows the URL, Category, Disposition (action applied), and Username.
- Also shows the IP address of the integration or Network Agent (server IP), as well as source and destination IP address.

TestLogServer



_ 0

🚳 C:\WINDOWS\system32\cmd.exe

C:\Program Files\Websense\bin>TestLogServer.exe TestLogServer version 7.1.0 Accepting connections on port 55805... Core code has connected. Using version 3 time=Mon Nov 16 13:55:30 2009 version=3 server=10.212.5.168 source=10.212.5.168 dest=157.166.255.19 "http" protocol= "http://cnn.com/" սթ1= "80 port= category= (NEWS AND MEDIA) disposition= 1026 (Category Not Blocked) app type= ke yword= user= bytes sent=1011 bytes received=686 duration=2

In this output, the user name is NOT identified.

- This prevents user and group policies from being applied.
- ONLY an IP address-based policy or the Default (*Global) policy can be applied.



Why am I NOT seeing traffic in TestLogServer?

- What is your integration?
 - Proxy
 - Firewall
 - Stand-alone (Network Agent)
- Have you configured a span/mirror along with your integration for protocol filtering?

Network Agent troubleshooting reveals whether Network Agent can see the protocol signatures to filter and block of URLs and protocols.



Network Agent			
Global			
10.212.5.168	Add De	elete	
Reporting			
	Network Interface	Cards	
	Name	IP Address	Description
	<u>NIC-1</u>	10.212.5.168	Intel(R) PRO/1000 CT Network Connection
	Advanced Networ Ports used for HTT Debug Settings These settings a representative. Mode: None Output: File Port: 55870	k Agent Settings P traffic: All re used for troubleshooting. Modify to the set of t	them only when directed to do so by a Websense Technical Support

From the Mode drop-down list, select Detail.
 Click OK, and then click Save All.



time=Tue Nov 17 13:55:21 2009 version=3 protocol= "Vaboot Messenger" "Yahoo! Messenger://68.180.217.18:5050" սթ]= port= "5050 1801 (PROTOCOL CATEGORY) category= disposition= 1049 (Protocol Blocked) 1111 app type= ke yword= "LDAP://10.212.1.5 OU=Technical Support Specialists,OU=US Technical user= Services,DC=testadw2k3,DC=techsupport2k3,DC=com/Wiley DeMoll" bytes sent=652 bytes received=54 duration=0

This TestLogServer output shows that the protocol is blocked.

To also review the Network Agent Debug output:

- Make a note of the URL and port.
- The NetworkAgent.log is the file generated when debugging is enabled.
- Be careful as this logs ALL data and will grow quite large in size.







- If you do not see the URL or protocol listed in the log, Network Agent is probably not seeing it.
- Some things to check when this occurs:
 - Is the Network Agent service running?
 - Have you properly configured your span/mirror port on your managed switch?
 - If you have multiple NICs on the Network Agent machine, is the correct NIC configured to see the traffic from your span/mirror?



Log Server debug can be used to troubleshoot problems with logging and reporting.

- Verify whether Log Server can connect to Policy Server and the Log Database
- To run LogServer in debug mode:
 - 1. Open the Windows Services dialog box.
 - 2. Right-click Websense Log Server.
 - 3. Select Properties.



54

Websense Log Ser	ver Properties (Local Computer) ? 🗙	
General Log On	Recovery Dependencies	
Service name:	WebsenseLogServer	
Display <u>n</u> ame:	Websense Log Server	
Description:	Stores Internet and protocol access data for reporting.	
Pat <u>h</u> to executable: C:\Program Files\Websense\bin\LogServer.exe -scm		
Startup typ <u>e</u> :	Automatic	
Service status:	Stopped	
<u>S</u> tart	Stop <u>P</u> ause <u>R</u> esume	
You can specify the start parameters that apply when you start the service from here.		
Start parameters:	-debug	
	OK Cancel Apply	

4. Enter -debug in the Start parameters field (near the bottom of the dialog box).

Vebsense Log Ser	ver Properties (Local Computer) ? 🗙	
General Log On	Recovery Dependencies	
Service name:	WebsenseLogServer	
Display <u>n</u> ame:	Websense Log Server	
Description:	Stores Internet and protocol access data for Argon times and protocol access d	
Pat <u>h</u> to executable: C:\Program Files\Websense\bin\LogServer.exe -scm		
Startup typ <u>e</u> :	Automatic	
Service status:	Started	
<u>S</u> tart	<u>Stop</u> <u>P</u> ause <u>R</u> esume	
You can specify the start parameters that apply when you start the service from here.		
Start parameters:	-debug	
	OK Cancel Apply	

5. Restart the Log Server service.





6. When the service stops on its own, remove the -debug parameter.



57

A file called debug.txt is created in the Websense bin directory.

📕 debug.txt - Notepad File Edit Format View Help Waiting to connect to Policy Server.... LogServer.exe Version 7.1.0 Reading Configuration from File C:\Program Files\Websense\bin\LogServer.ini |Product Name = WSE Setting [UserGroups].ProcessGroups = TRUE Setting [UserGroups].ProcessUserFullName = TRUE Setting [UserGroups].UserGroupsUpdate= 12 Hours Setting [UserGroups].UserBatchSize= 100 max rows per user query Setting [UserGroups].MinUpdateInterval= 300 min seconds per update Setting [UserGroups].GroupUpdateInterval= 120 Hours Setting [UserGroups].CutoffDays= 90 Days Setting [UserGroups].ContinueAssignmentInterval= 120 Hrs Setting [UserGroups].SleepInterval= 50 milliseconds per stored procedure call Setting [UserGroups].LargeGroupInterval= 5 groups to have a long sleep Settiną ServerPort= 55805 Setting ServerMaxFileSize= 1.000000 Megs Setting ServerMaxFileTime= 5.000000 Minutes Setting [LogFile].MoveCacheFile = FALSE Setting [LogFile].ProcessCacheFile = TRUE Setting [CacheFileWatcher].Active = FALSE Setting StorageOverspeed = FALSE Setting DataBase MaxDBConnections = 4 Setting Connection String = Settiną UsingBCP = FALSE Settiną Usiną Compression= OFF Settiną CompressionTime= 1 Setting CompressioncutOff= 979 Meg Settiną̃ Using Visits= OFF Settiną́ Visit́HitsTime= 10 |Setting VisitSortTimeDelav = 30 Setting ContainerFileExtensions = Setting NewCategory FALSE ID = 1800Setting NewCategory TRUE ID = 1801Setting UpdatePolicyData = TRUE Setting DiskCheckTimeInterval = 5 Setting SecureLoggingIPs = |Setting ReportMalformedRecords = TRUE Setting ReportInvalidRecords = FALSE Setting LogRecordswithNullUrl = FALSE Setting LogRecordThresholdTime = 0 Setting DataBase MaxwTGDBConnections = 1 |Setting [Alerts].DiskCheckTimeInterval= 300 Seconds. CLogServerDoc::VerifyOpenServerVersion: Initialize SDK- OK CLoqServerDoc::VerifyOpenServerVersion: qetOpenServerVersion- OK CLogServerDoc::VerifyopenServerversion: Open Server version [7.1.0] – ок wsReporterDb::Initialize: Failed to Initalize the Database CLogServerDoc::OnNewDocument: Initializing Database : FAILED MessageMapThread:: Service initialization: Failed Waiting for LogServer to shutdown... LogServerDoc shutdown cleanly...



58

Also check the LogServer.ini file in the Websense bin directory.

🕞 LogServer.ini - Notepad	- D X
Ele Edit Format View Help	
[[LogFile] CacheFilePath=C:\Program Files\Websense\bin\Cache\	~
Jaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	



If Log Server does not start:

- Check the ODBC connection, and either reconfigure the existing data source, or delete and recreate the ODBC source.
 (Be sure to reconnect Log Server to the ODBC source after recreating it.)
- If you are using a trusted connection to the database, try a SQL connection.
- Is your SQL Server allowing both Windows trusted and SQL connections (Mixed Security) or just one or the other?
- Open the websense.ini file, located in the Websense bin directory, and make sure that the Log Server UID matches the one that appears in the config.xml file.
- If all else fails, contact Websense Technical Support: create a case online at <u>http://ask.websense.com</u>.



A Knowledge Base

 Search or browse the knowledge base for documentation, downloads, top knowledge base articles, and solutions specific to your product.



Support Forums

 Share questions, offer solutions and suggestions with experienced Websense Customers regarding product Best Practices, Deployment, Installation, Configuration, and other product topics.



Tech Alerts

Subscribe to receive product specific alerts that automatically notify you anytime
 Websense issues new releases, critical hot-fixes, or other technical information.



ask.websense.com

- Create and manage support service requests using our online portal.



- To find Websense classes offered by Authorized Training Partners in your area, visit: http://www.websense.com/findaclass
- Websense Training Partners also offer classes online and onsite at your location.
- For more information, please send email to:

readiness@websense.com

Authorized Training Partner

Certified Instructor





Title: Controlling Risk, Conserving Bandwidth, and Monitoring Productivity with Websense Web Security and Websense Content Gateway
Date: January 20, 2010
Time: 8:30 AM PST (GMT -8)
How to register: http://www.websense.com/content/ SupportWebinars.aspx





