

Troubleshooting Transparent Identification Agents for Websense Web Security

Websense Support Webinar November 2010

Support Webinars

- What is a transparent identification agent?
- Deploying and combining transparent identification agents
- DC Agent troubleshooting
- Logon Agent troubleshooting
- RADIUS Agent troubleshooting
- eDirectory Agent troubleshooting

- What is a Transparent Identification Agent?
 - Used to transparently find user information
 - Maps an IP address to a Username for use by the Websense Filtering Service
 - Username information passed to User service when required to find group and OU membership for use with filtering policies.

- Websense Web Security includes 4 transparent identification agents:
 - **DC Agent** communicates with a Windows-based directory service. Can be installed on a Windows server in any domain.
 - **Logon Agent** communicates with a Windows-based directory service. Requires a logon application to be installed on client machines.
 - **RADIUS Agent** can be used with any supported directory service. Requires a RADIUS client and RADIUS server to identify remote users.
 - **eDirectory Agent** communicates with Novell eDirectory.
- Agents can be used individually, or in combination.

- Can work with Logon Agent and RADIUS Agent
 - On the same machine or in the same network
- If using multiple instances of DC Agent, install each instance on a separate machine.
- All instances of DC Agent must be able to communicate with Filtering Service.
- Cannot work with eDirectory Agent, either on the same machine or in the same network

- Can work with DC Agent and RADIUS Agent
 - On the same machine or in the same network
- If using multiple Logon Agent instances, each instance must be installed on a separate machine.
- Cannot work with eDirectory Agent, either on the same machine or in the same network

- RADIUS Agent can work with any other transparent identification agent
 - On the same machine or in the same network
- eDirectory Agent can work only with RADIUS Agent.

- The incorrect policy is being applied to users.
 - DC Agent could not identify a user.
 - A user is incorrectly associated with a particular IP address.
- Troubleshooting steps:
 - Make sure that DC Agent is running with an account that has access to poll domain controllers for user information.
 - Run **testlogserver** to see if user information is missing from filtering requests.
 - See www.websense.com/content/support/library/web/v75/ws_utilities/tl_75_testlogsvr.aspx.

■ Troubleshooting steps (continued):

– Run **ConsoleClient** on diagnostic port **30601**.

- See websense.com/content/support/library/web/v75/ws_utilities/tl_75_consoleclient.aspx.
- Use the **printself** option to review the user name map.
- Check for user entries that don't have a corresponding IP address.
- Check for blank user names.
- If the user map is correct, but the user is not identified, there may be a User Service problem, or a communication issue between DC Agent and Filtering Service.
 - Enable directory service tracing (**dstrace**) to troubleshoot problems related to User Service.

■ Troubleshooting steps (continued):

- Check the **websense.log** file and the Windows Event Viewer for errors.
- Check the **dc_config.txt** file to make sure that all relevant domain controllers are listed, and set to **on**.

```
[SANDIEGO]  
AD-SD=on
```

If this file is empty, DC Agent does not know which domain controllers to poll.

- If there is a problem identifying particular user, open a command prompt on the client machine and run the **set L** command to get the logon server name.

■ Troubleshooting steps (continued):

- Make sure that NetBIOS is enabled between the DC Agent machine and domain controller.
- Get additional diagnostic data:
 1. Add the following parameters to the **transid.ini** file in the Websense **bin** directory (C:\Program Files\WebSense\bin, by default).

```
UseFileTrace=true  
VerifyTracing=true
```
 2. Restart the DC Agent service.
 3. An **xid_trace.txt** file will be created with diagnostic information.

- If Logon Agent cannot get a user name/IP address pair from a client machine, Websense software does not apply the appropriate user or group policy.
- Troubleshooting steps for the logon application:
 - Verify that the script used to run the logon application (**LogonApp.exe**) is correctly applied.
 - Make sure the user profile on the client machine is not corrupt. A corrupt profile can keep LogonApp.exe from running.
 - Verify that the client machine is connected to the shared drive on the domain controller where LogonApp.exe and the logon script are stored.

- Troubleshooting for the logon application (continued):
 - Make sure the TCP/IP NetBIOS Helper service is running on the client machine. This service is required for proper deployment of LogonApp.exe.
 - Add the **/d** parameter to the logon script to print logon application messages to a file specified via the **/filename** switch.

- Troubleshooting steps for Logon Agent:
 - Run **ConsoleClient** on diagnostic port **30603**.
 - See websense.com/content/support/library/web/v75/ws_utilities/tl_75_consoleclient.aspx.
 - Use the **printself** option to review the user name map.
 - If the user map is correct, but the user is not identified, there may be a User Service problem, or a communication issue between Logon Agent and Filtering Service.
 - NetBIOS for TCP/IP must be enabled. If NetBIOS is disabled:
 - The logon application (logonapp.exe) may not be able to run
 - Logon Agent may not be able to communicate with domain controllers.

- Troubleshooting steps for Logon Agent (continued):
 - Run a packet capture using Wireshark.
 - Check for an **error 401** during final handshake. This could indicate that Logon Agent is not able to communicate with domain controller to verify user credentials.

- RADIUS Agent acts as a proxy that forwards RADIUS messages between the RADIUS client and server.
- Troubleshooting steps:
 - If remote users are not identified by RADIUS Agent, verify that RADIUS parameters are correctly configured in TRITON - Web Security.
 - Ensure that the communication ports between RADIUS clients and RADIUS Agent and between RADIUS Agent and the RADIUS server are correctly configured on the firewall.
 - Run **testlogserver** to see if user information is missing from filtering requests.
 - See www.websense.com/content/support/library/web/v75/ws_utilities/tl_75_testlogsvr.aspx.

■ Troubleshooting steps (continued):

- Enable RADIUS Agent diagnostics in the **wsradius.ini** file in the Websense **bin** directory (C:\Program Files\Websense\bin or /opt/Websense/bin, by default).
 1. Set **DebugMode** to **On**.
 2. Set **DebugLevel** to **3** for the highest level of debugging (includes all RADIUS transactions involved in a user logon).
 3. Use the **LogFile** parameter to specify a name for the output file.
- Run a packet capture on the RADIUS Agent, RADIUS server, and client machines to verify that RADIUS and accounting information is being passed from the agent to the server.

■ Troubleshooting steps (continued):

- Check the RADIUS server log file to verify that the server is authenticating clients.
- Ensure that the RADIUS server has the RADIUS Agent machine IP address added as a RADIUS client.
- Check the RADIUS Agent log file for errors.
 - The message “Error receiving from server: 10060” (Windows) or “Error receiving from server: 0” (Linux) usually indicates that the RADIUS server does not recognize RADIUS Agent as a client (source of RADIUS requests).
 - Make sure your RADIUS server is configured as described in the TRITON - Web Security Help.

■ Troubleshooting steps (continued):

– Run **ConsoleClient** on diagnostic port **30801**

- See websense.com/content/support/library/web/v75/ws_utilities/tl_75_consoleclient.aspx.
- Use the **printself** option to review the user name map.
- If the user map is correct, but the user is not identified, there may be a User Service problem, or a communication issue between RADIUS Agent and Filtering Service.

- If users are not identified by eDirectory Agent:
 - Make sure that users are logging onto the Novell eDirectory domain.
 - Run **testlogserver** to see if user information is missing from filtering requests.
 - See www.websense.com/content/support/library/web/v75/ws_utilities/tl_75_testlogsvr.aspx.

■ Troubleshooting steps (continued):

– Run **ConsoleClient** on diagnostic port **30701**.

- See websense.com/content/support/library/web/v75/ws_utilities/tl_75_consoleclient.aspx.
- Use the **printself** option to review the user name map.
- If the user map is correct, but the user is not identified, there may be a User Service problem, or a communication issue between eDirectory Agent and Filtering Service.
- Enable directory service tracing (**dstrace**) to troubleshoot problems related to User Service.

- To activate eDirectory Agent logging and debugging:
 1. Stop the **Websense eDirectory Agent** service or daemon.
 2. Navigate to the Websense **bin** directory (C:\Program Files\Websense\bin or /opt/Websense/bin, by default).
 3. Open the **wseDir.ini** file in a text editor and locate the **[eDirAgent]** section.
 4. Modify the **DebugMode** entry to read:
`DebugMode=On`
 5. Modify the **DebugLevel** entry to read:
`DebugLevel=3`
Level 3 provides the highest level of debugging detail.

■ eDirectory Agent logging and debugging (continued):

6. Modify the **LogFile** entry to read:

```
LogFile=eDirLog.txt
```

This causes log output to be sent to a file called **eDirLog.txt**. You can enter a different file name, or leave the entry blank to send debugging information to the console.

7. Start the **Websense eDirectory Agent** service or daemon.

■ Additional note:

- Check to see if the root context set in the **wseidir.ini** file is different from the one set for eDirectory Agent in TRITON - Web Security.

In this case, although the user can be identified, Websense software may not be able to apply the correct filtering policy.

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