



Security made simple.

Sophos Transparent Authentication Suite Quick Start Guide

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1 Features Overview

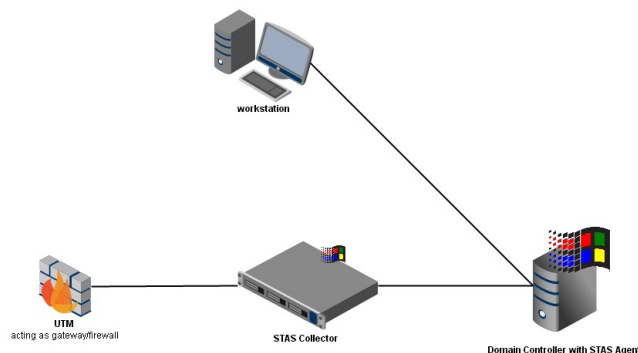
Sophos introduces clientless Single Sign-On as a Sophos Transparent Authentication Suite (STAS). This guide gives an overview of its features and functionality.

Sophos Transparent Authentication Suite eliminates the need to remember multiple passwords as the user logs on to Sophos UTM automatically when he logs on to Windows. Moreover, it eliminates the installation of Single Sign-On (SSO) clients on each workstation. Hence, it provides high ease-of-use to end users and higher levels of security in addition to lowering operational costs involved in client installation.

STAS consists of two main components:

- **STAS Agent** (on the AD server): Monitors user authentication requests on the domain controller and sends information to the Collector for Sophos authorization.
- **STAS Collector** (on any machine): Collects user authentication requests from multiple agents, processes the requests and sends them to Sophos UTM for authorization.

1.1 Operating Principle of STAS



STAS Operating Principle

1. The user logs on to the Active Directory domain controller from any workstation in the LAN. The domain controller authenticates the user credentials.

Note – Access is only granted for users logged onto the domain. Users who are logged into a workstation directly (or locally) but not logged in as a domain user will not be authenticated and are considered as “unauthenticated” users.

2. The STAS Agent captures and communicates this authentication process to the STAS Collector over the default TCP port [5566] in real time.
3. The STAS Collector registers the user in the local database and communicates the user's IP address and username to Sophos UTM over its default UDP port [6077].

1 Features Overview

4. Sophos UTM queries the Active Directory domain controller to determine the user's group membership and registers the user in the Sophos UTM database.
5. The STAS Collector regularly polls all workstations available in its user map to check if the same user is still logged in.

2 Prerequisites

Before STAS can be configured, some settings have to be made on Sophos UTM.

The following topics are included in this chapter:

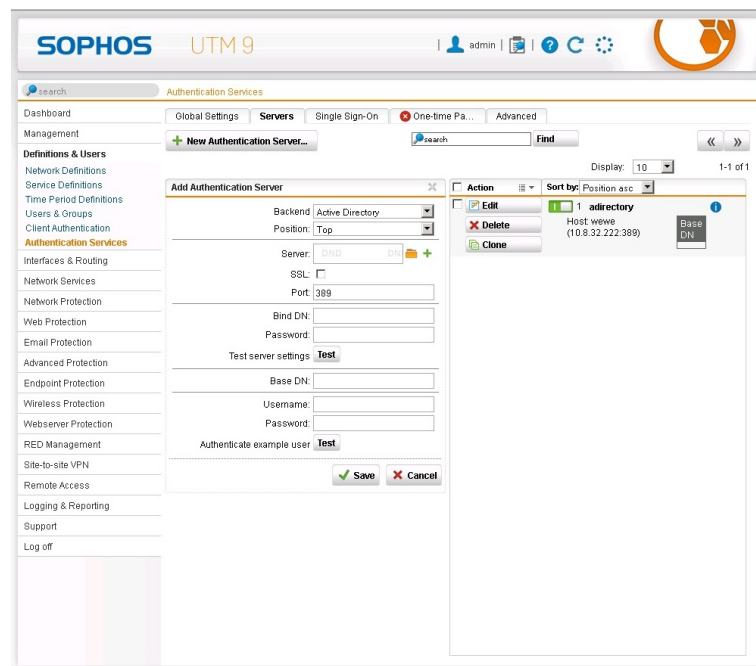
- Configuration of AD controller
- Activation of STAS

2.1 Configuration of AD Controller

One central element of Sophos Transparent Authentication Suite is the domain controller hosting the STAS Agent. Before installing STAS, the Active Directory domain controller has to be configured.

To configure the domain controller, proceed as follows:

1. **Log in to the WebAdmin console as administrator.**
2. **Navigate to *Definition & Users > Authentication Services > Servers* and click *New Authentication Server*.**
3. **As *Backend*, select *Active Directory*.**



Definition of new Authentication Server

4. **Fill in the remaining fields.**

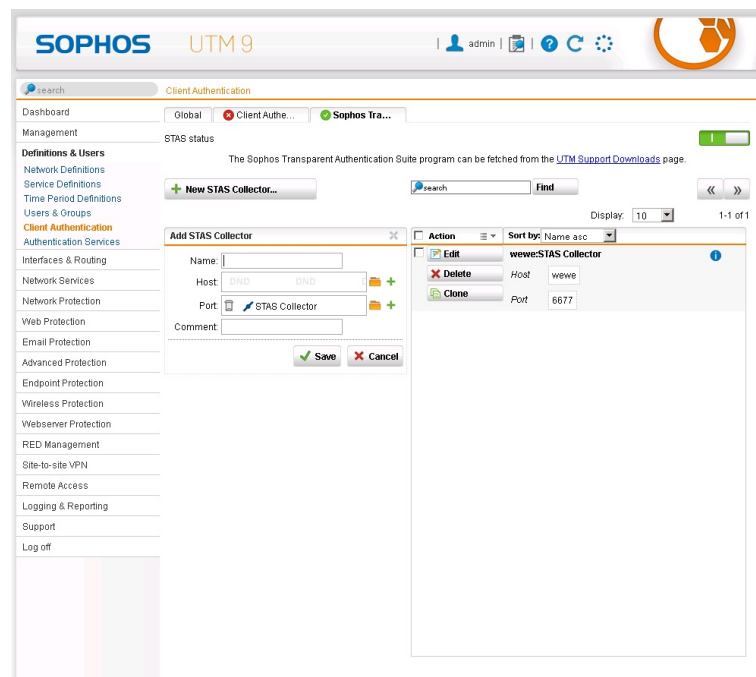
Note – For more information, see the Sophos UTM online help.

2.2 Activation of STAS

To use STAS, it first must be enabled and a collector machine has to be defined.

To enable STAS, proceed as follows:

1. Navigate to *Definition & Users > Client Authentication*.
2. Switch to the *Sophos Transparent Authentication Suite* tab.
3. Under *STAS Status*, click the toggle switch.
4. Click *New STAS Collector*.
5. As port, select *STAS Collector*.



Definition of STAS Collector

6. Fill in the remaining fields as described in the online help of the WebAdmin console (for help, click the "?" button).

3 Installation

This chapter provides a step-by-step guide to include Sophos Transparent Authentication Suite to Sophos UTM.

The following topics are included in this chapter:

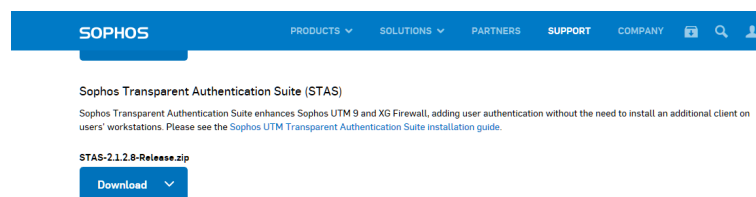
- Downloading STAS
- Installing STAS

3.1 Downloading of STAS

The Sophos Transparent Authentication Suite program can be fetched from the Sophos UTM Support Download page.

To download the program, proceed as follows:

1. **Navigate to** <https://www.sophos.com/en-us/support/utm-downloads.aspx>.
2. **Under the section *Sophos Transparent Authentication Suite (STAS)*, download the STAS installer.**



UTM Support Downloads

3. **Follow the on-screen instructions to install STAS on the Active Directory domain controller.**

Administrative right is required to install STAS.

3.2 Installation of STAS

On executing the STAS installer file [STAS [version No.] Release.exe] the setup wizard welcome screen appears.



STAS Welcome Screen

To start the installation, proceed as follows:

1. **Click *Next* to proceed.**

A window is displayed asking for the destination to install the program.

2. **Specify the installation folder.**

- Click *Next* to install STAS at the default location.
- Click *Browse* to change the location and specify a destination folder.
- Once the destination is selected, click *Next*.

Note – For installation, at least 4.1 MB of free disk space is required. The client will not be installed, if there is not enough disk space.

3. **Specify the *Start* menu folder.**

- Click *Next* to create a shortcut of the program at the default location.
- Click *Browse* to change the location and specify a destination folder.
- Once the destination is selected, click *Next*.

4. **Select additional tasks.**

Enable the respective checkboxes if you want to create a STAS icon on the desktop or a Quick launch icon.

5. **Click *Install* to install the Sophos Transparent Authentication Suite at the selected location or click *Back* to change the location.**

6. **Select the type of setup.**

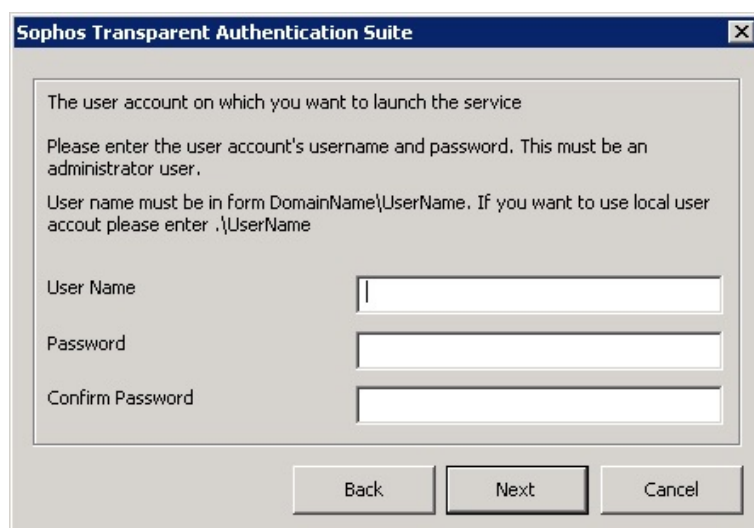


Type of Setup

- Select *STA Agent* if you want to monitor user authentication requests on the domain controller and send information to the Collector for authorization on Sophos UTM.
- Select *STA Collector* if you just want to collect user authentication requests from multiple agents, process the requests and send them to Sophos UTM for authorization.
- Select *SSO Suite* to install both of the above components. By default, the entire SSO Suite is installed.

7. Click **Next** to proceed.

8. Specify the administrators' user account.



User Account Setup

- Specify the *User Name* and the *Password* for the user for which you want to launch the service.

3 Installation

This user must have administrative rights for the machine on which you are installing STAS.

- Click *Next* to proceed.

Once the installation is completed successfully, the following screen is displayed.



Installation Complete

9. Click *Finish* to exit.
10. Check for the Sophos Transparent Authentication Suite from *Start > All Programs*. If installed successfully, this tab is added to the *Start* menu.

After the successful installation, you need to configure STAS on your AD server.

4 Configuration

Once the Sophos Transparent Authentication Suite is installed, it has to be configured on the AD server it is to be applied. This chapter describes the two-steps process to configure STAS on the AD server.

The following topics are included in this chapter:

- Configuring the STAS Agent
- Configuring the STAS Collector
- Showing Live Users
- Starting the STAS Service

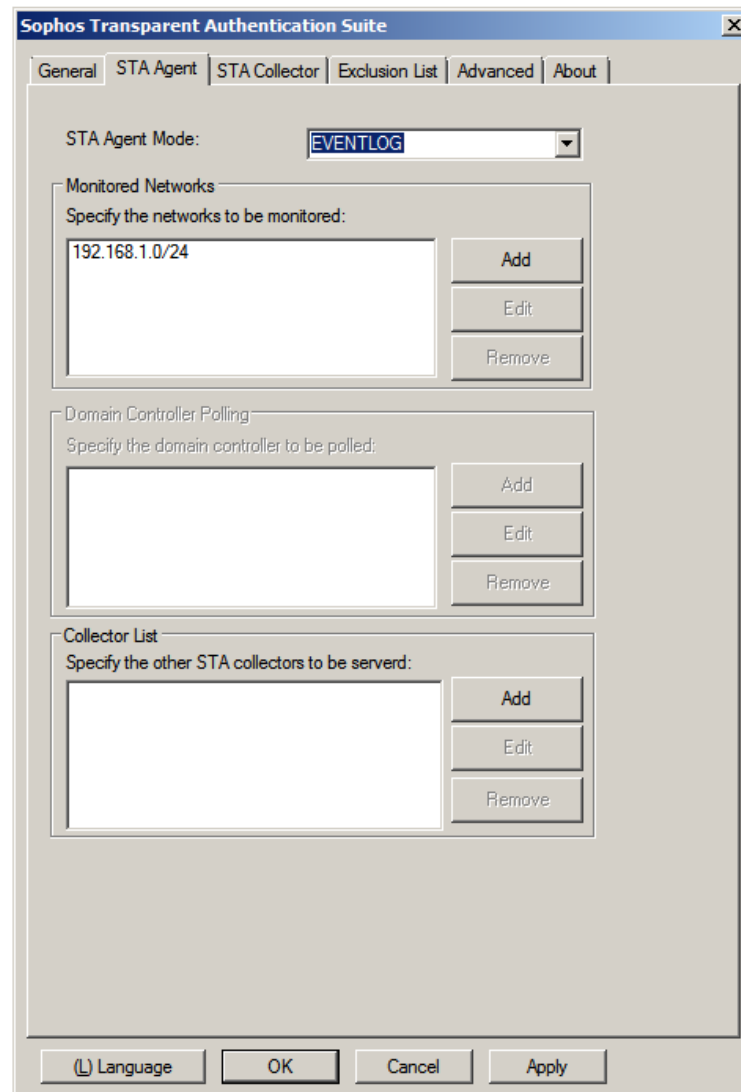
4.1 Configuration of STAS Agent

To configure the STAS Agent, proceed as follows:

1. **Launch the program from *Start > All Programs > STAS > Sophos Transparent Authentication Suite* or from the Desktop shortcut.**
2. **Switch to the *STA Agent* tab and configure the parameters as given below.**
 - In the field *STA Agent Mode*, select the workstation communication method. *EVENTLOG* is recommended.

Note – In case of *Eventlog*, the agent has to be installed on the domain controller, in case of *Netapi*, the domain controller can be selected.

- In the section *Monitored Network*, specify the networks to be monitored for user authentication. Multiple networks can be added.



Configuration of STAS Agent

3. **Add the collector(s).**

The list order defines the precedence: The top collector gets the information from the agent.

4. **Click *Apply*.**

4.2 Configuration of STAS Collector

To configure the STAS Collector, proceed as follows:

1. **Switch to the *STA Collector* tab and configure the parameters as given below:**

- In the section *Sophos Appliances*, specify the Sophos UTM IP address to which the STAS Collector has to forward user information.
- In the section *Workstation Polling Settings*, specify the method for polling user information:

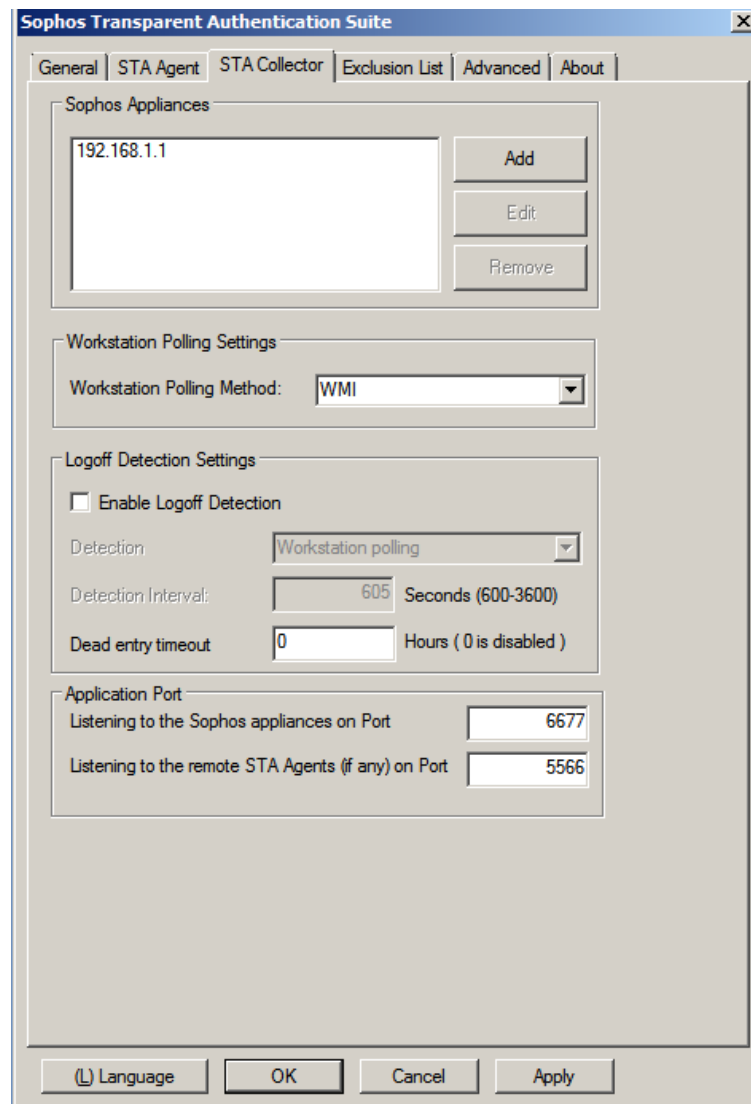
- WMI
- Registry Read Access
- In the section *Logoff Detection Settings*, enable Logoff Detection if you want to monitor user log-offs.
If enabled, specify the Detection Method (either pinging the workstation or polling through WMI or Registry Read Access).

Note – If enabled, it is recommended to use the WMI detection method.

If you enable *Logoff Detection Settings*, ensure that the firewalls on all workstations are configured to allow traffic to and from the domain controller.

- If ping is selected as log off detection method, ensure that the workstation firewall allows ping packets.
- If WMI polling method is selected, ensure that the workstation firewall allows traffic over UDP port 135.
- *Dead Entry Timeout*: Specify if you want a user to be logged off from the Sophos UTM after the mentioned time, even when the Logoff Detection for the users is disabled.
- In the section *Application Port*, specify the UDP port on which the STAS Collector is to listen for requests from Sophos UTM.
The default port is 6677.
- Specify the TCP port on which the STAS Collector is to listen for requests from remote STAS Agents.
The default port is 5566.

Make sure that the AD server has TCP port 5566 open to communicate with the STAS Collector. If the STAS Collector also runs on the AD domain controller, UDP port 6677 must be open to communicate with Sophos UTM.



Configuration of STAS Collector

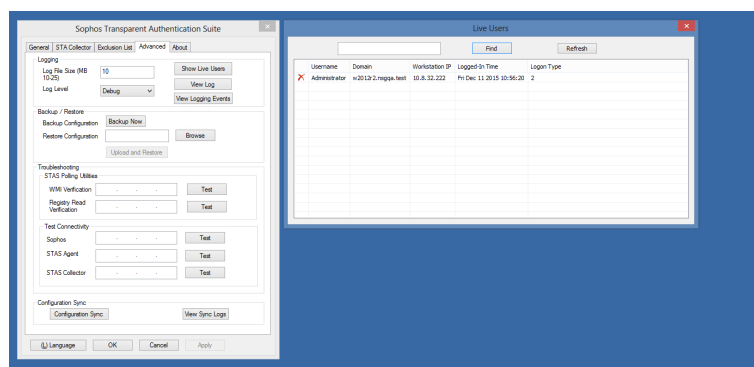
3. Click *Apply*.

4.3 Showing Live Users

As the STAS Collector is regularly polling user information from its user map administrators have the possibility to check which users are online at a specific point in time.

To see live users, proceed as follows:

1. Switch to the *Advanced* tab.
2. Click the *Show live Users* button.



Show Live Users

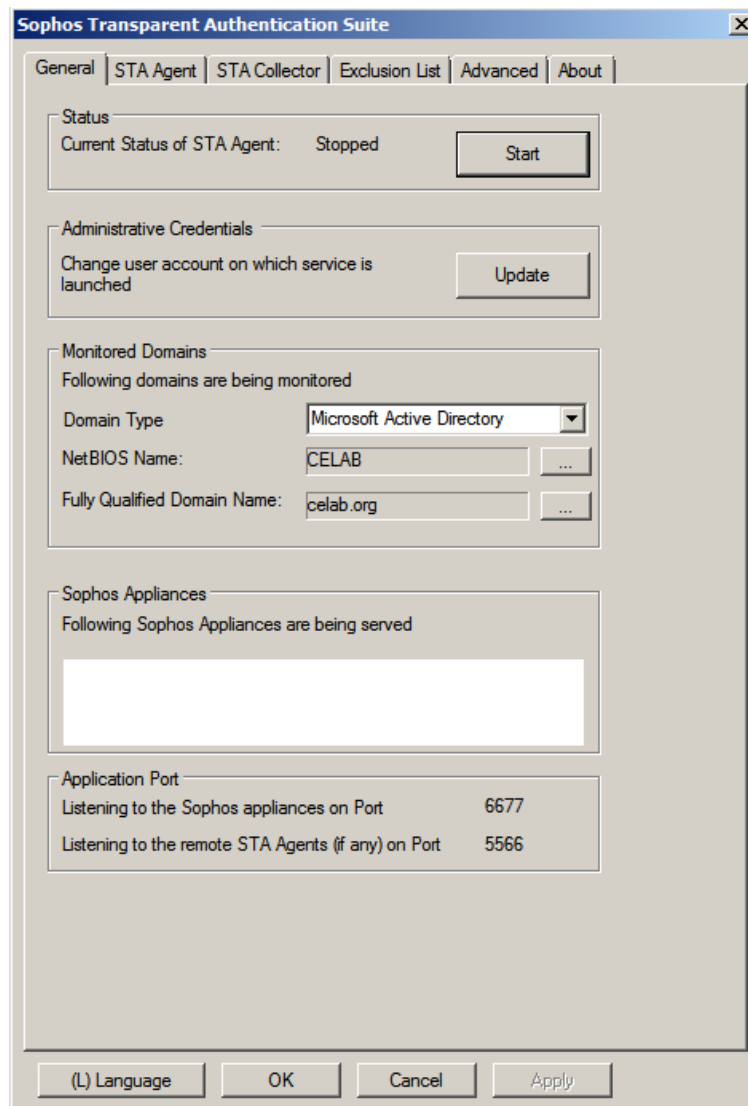
This list is identical with the one shown on the *Global* tab in the *Client Authentication* section of Sophos UTM.

4.4 Starting STAS Service

Finally, you can start the STA Agent via the *General* tab on the Sophos Transparent Authentication Suite and check the settings made for the monitored domains.

To start the STAS Agent, proceed as follows:

1. **Switch to the *General* tab.**
2. **Start the STAS Agent service.**



Start STAS Service

After configuring STAS on the AD server, you need to make some settings on the AD server.

5 Settings on AD Server

Several settings are required on the AD server to run STAS. This chapter lists the necessary procedures.

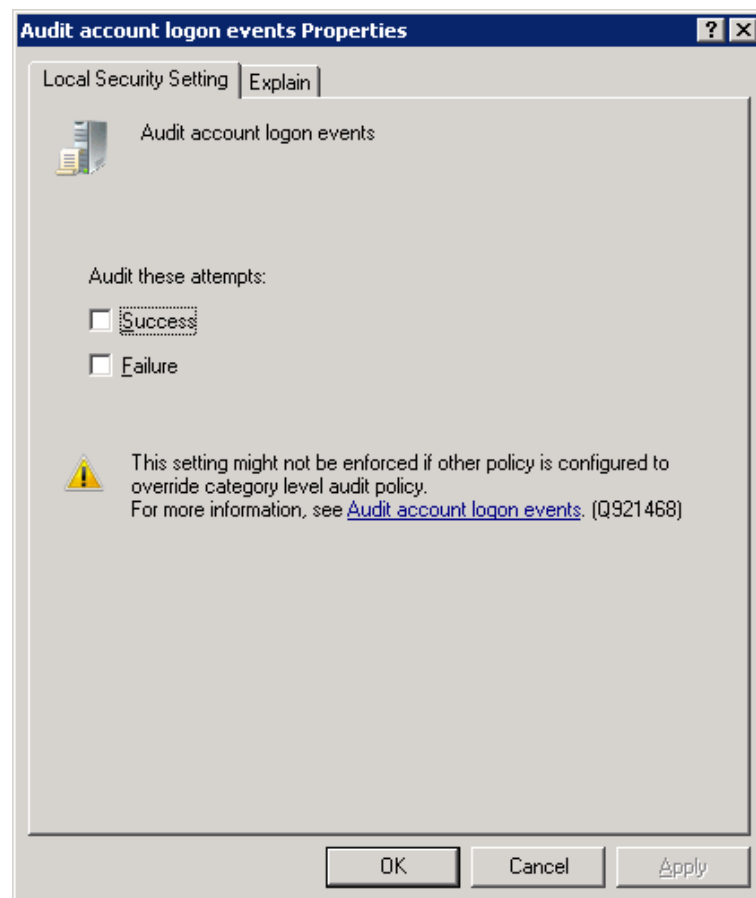
The following topics are included in this chapter:

- Enabling Security Event Logging
- Determining NetBIOS, FQDN, and Search DN

5.1 Activation of Event Logging

To enable security event logging, proceed as follows:

1. **Navigate to *Start > Control Panel > System and Security > Administrative Tools > Local Security Policy*.**
The *security settings* dialog opens.
2. **Navigate to *Local Policies > Audit Policy* and double click on *Audit account logon events*.**
The *Audit account logon events Properties* window opens.
3. **Enable Audit of *Success* and *Failure* logon events, as shown in the screen below.**

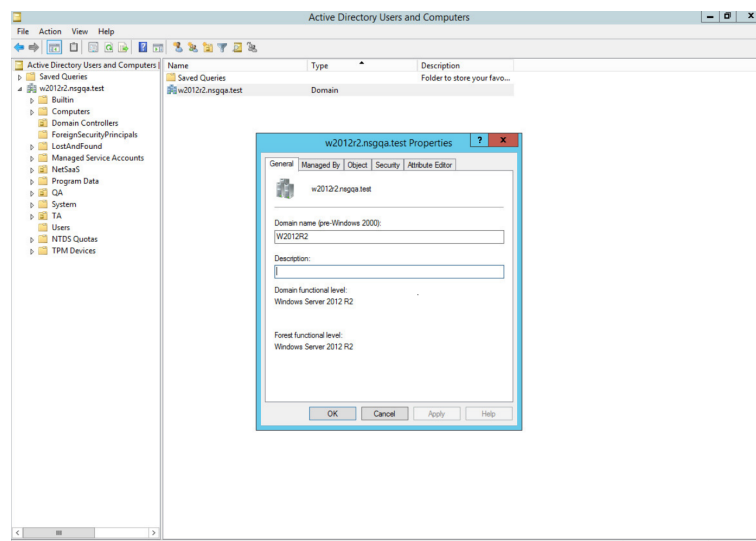


Audit Account Logon Events

5.2 Definition of NetBIOS Domain Data

To determine the NetBIOS name, FQDN and search DN, proceed as follows:

1. **Navigate to *Start > Programs>Control Panel > System and Security > Administrative Tools > Active Directory Users and Computers*.**
2. **Right-click the required domain and go to the *Properties* tab.**
Search DN will be based on the FQDN. In the given example FQDN is w2012r2.nsgqa.test, so the search DN will be DC=w2012r2, DC=nsgqa, DC=test.



Active Directory User Configuration

6 Connectivity Test

Sophos Transparent Authentication Suite[STAS] allows administrators to test the connectivity of a Sophos appliance, STAS Agent and STAS Collector with the AD server where the STAS Agent/Collector/Suite is installed.

This chapter describes how to test the connectivity between STAS and external devices as well as between the STAS components.

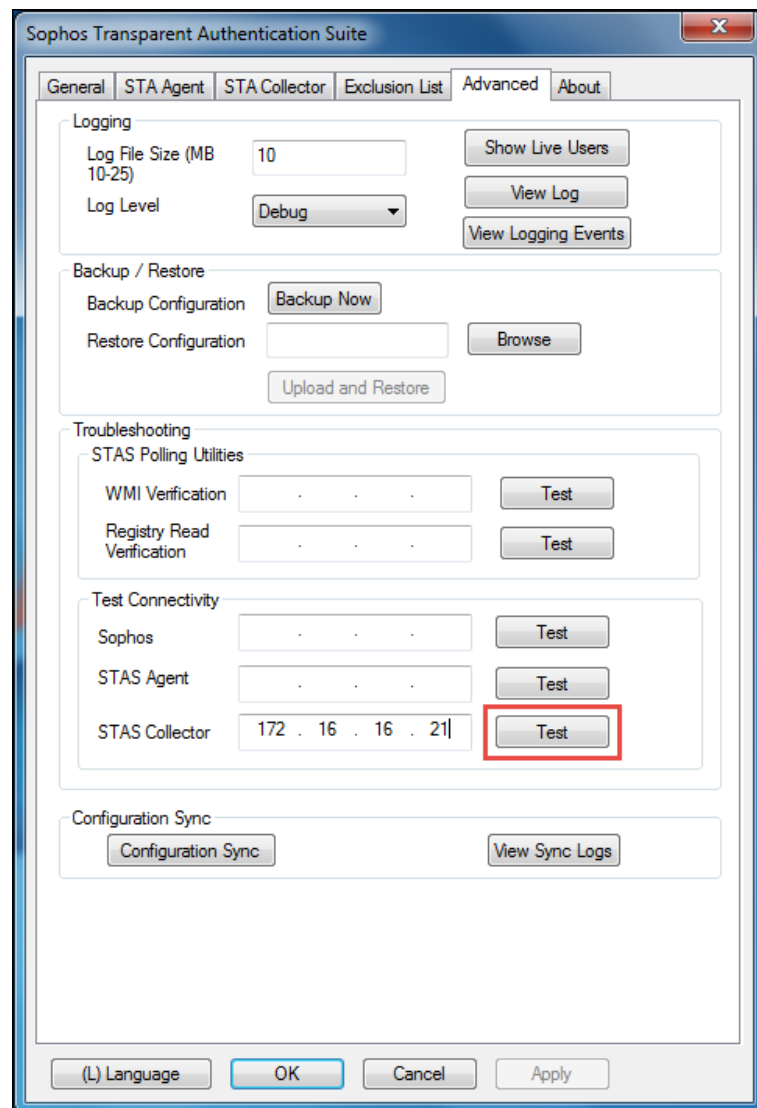
The following topics are included in this chapter:

- Testing the connectivity between STAS Agent and STAS Collector
- Testing the connectivity between STAS Collector and Sophos UTM
- Testing the connectivity between STAS Collector and workstation

6.1 STAS Agent and STAS Collector

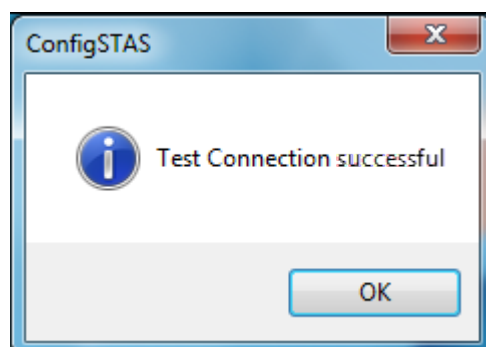
To test the connectivity between the STAS Agent (installed on the domain controller) and the STAS Collector, proceed as follows:

1. **Launch STAS and switch to the *Advanced* tab.**
2. **Under the *Test Connectivity* section, specify the IP address of the STAS Collector.**

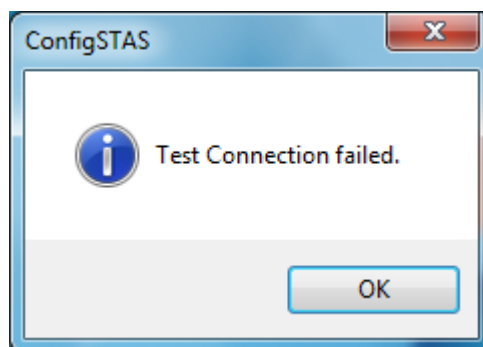


Test STAS Collector

3. Click **Test** to test the connection with Sophos.
If the test is successful, the following screen is displayed:



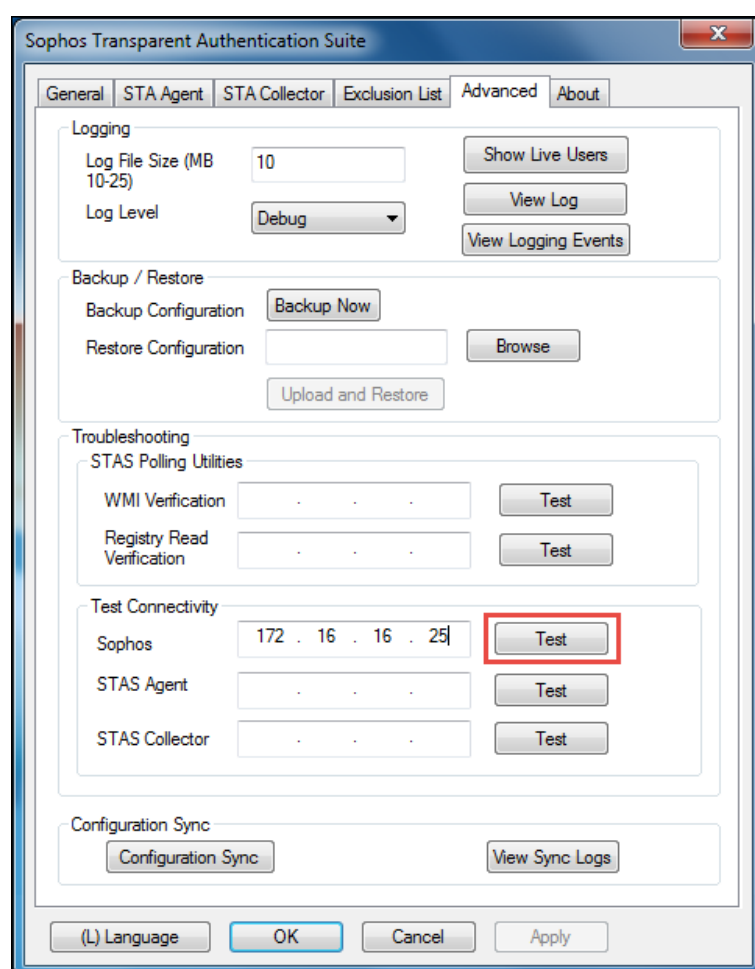
If the test fails, the following screen is displayed:



6.2 STAS Collector and Sophos UTM

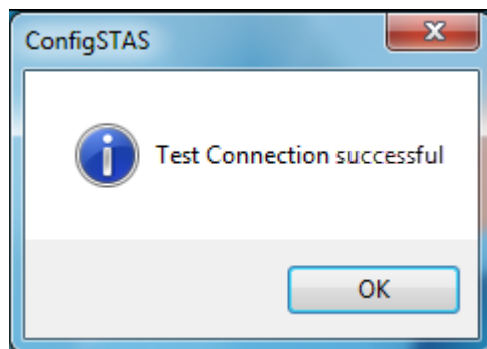
To test the connectivity between Sophos Transparent Authentication Suite (installed as a collector/suite on the Windows desktop) and Sophos UTM, proceed as follows:

1. Launch STAS and switch to the **Advanced** tab.
2. Under the **Test Connectivity** section, specify the IP address of the Sophos UTM.

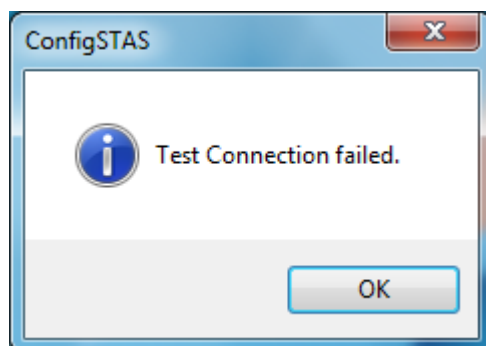


Test Connectivity

3. Click **Test** to test the connection with Sophos UTM.
If the test is successful, the following screen is displayed:



If the test fails, the following screen is displayed:



6.3 STAS Collector and Workstation

You can check the connectivity between a workstation and the STAS Collector in two ways:

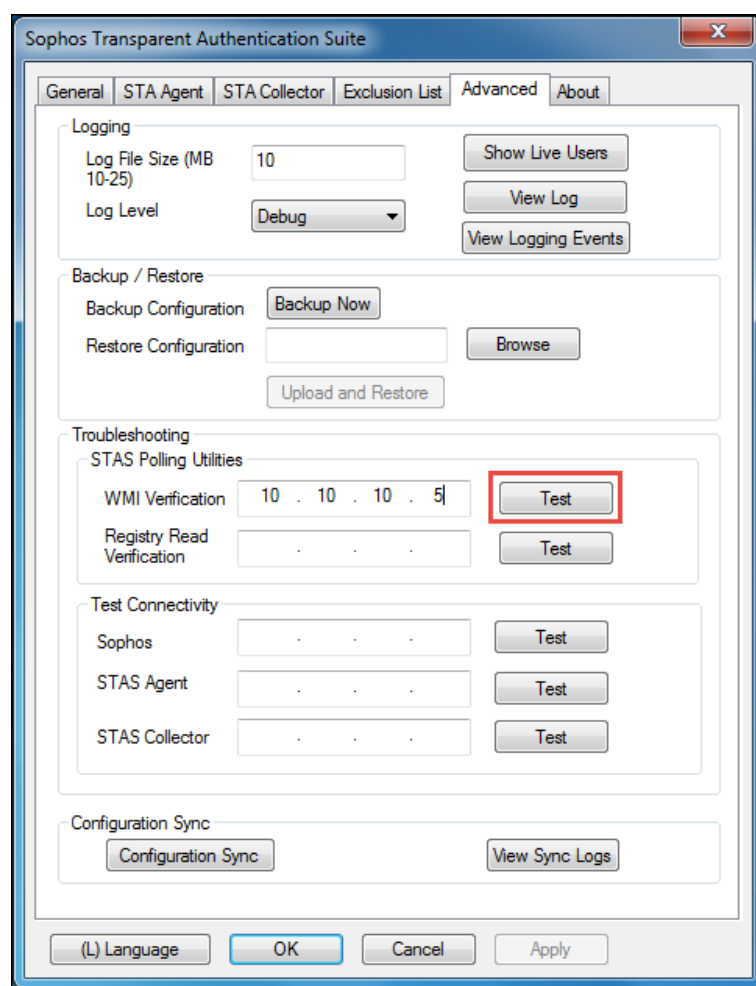
- WMI Verification
- Registry Read Verification

6.3.1 WMI Verification

Use this method only if the *Workstation Polling Method* is set to "WMI".

To check the connectivity using WMI, proceed as follows:

1. **Launch STAS and switch to the *Advanced* tab.**
2. **In section "Troubleshooting" in the field *STAS Polling Utilities* enter the IP address of the workstation.**
3. **Click *Test*.**



WMI Verification

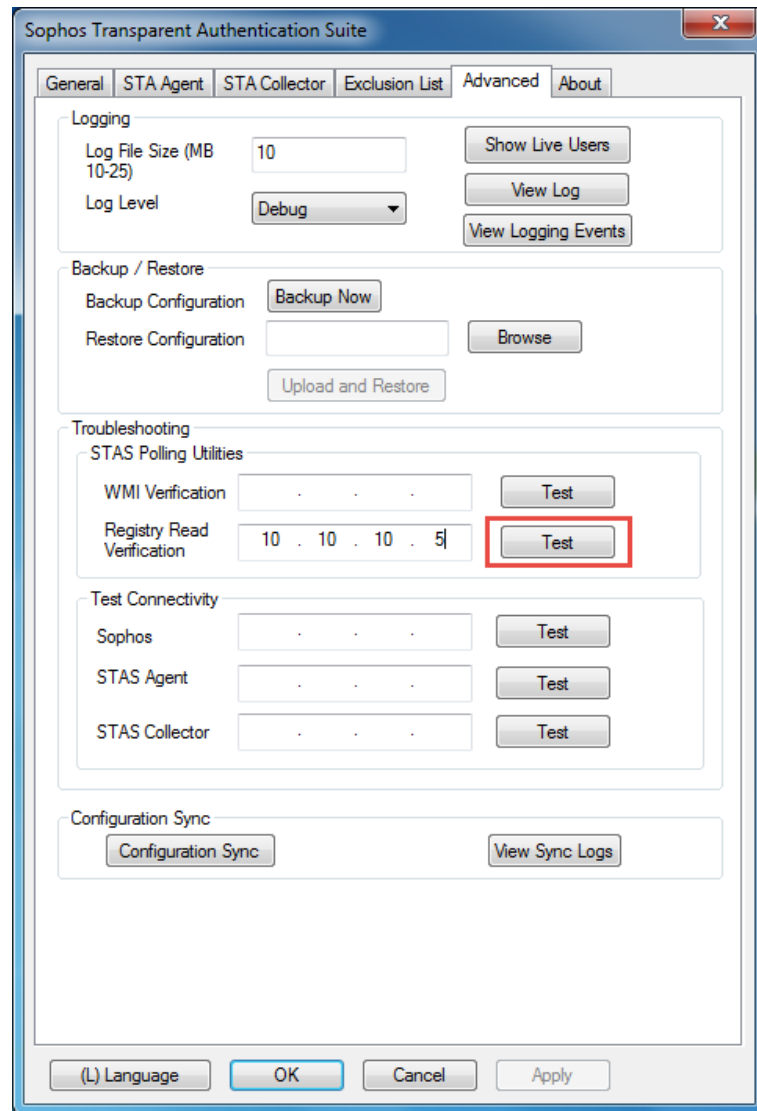
To perform a successful WMI verification, access to UDP port 135 must be allowed by the workstation firewall.

6.3.2 Registry Read Verification

Use this method only if the *Workstation Polling Method* is set to *Registry Read Access*.

To check the connectivity using Registry Read Access, proceed as follows:

1. **Launch STAS and switch to the *Advanced* tab.**
2. **In the section *Troubleshooting* in the field *STAS Polling Utilities* enter the IP address of the workstation.**
3. **Click *Test*.**



Registry Read Verification

To perform a successful Registry Read verification, the remote registry service should be started on the workstation.

To check the service:

1. Launch *Run* and open *services.msc*.
2. Select *Remote Registry* and make sure that the service is started.