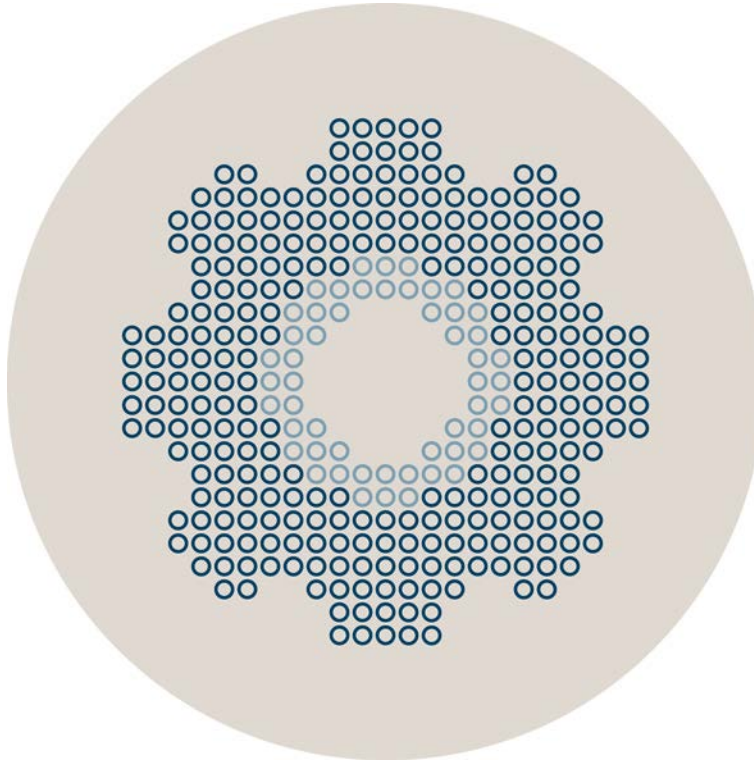


## User Agent 1.1.5

# Preparing the Windows Environment and Installing the User Agent

How-To

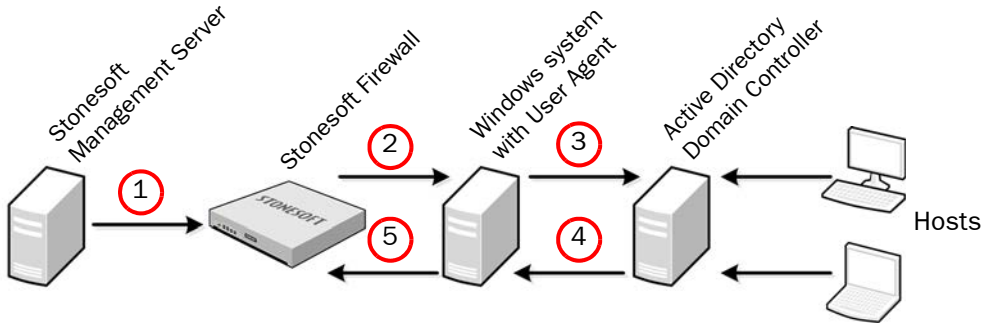
STONESOFT
A McAfee Group Company

# Contents

# Introduction to the User Agent

The User Agent is an optional software component that can be installed either locally on Domain Controller or on another Windows system in the domain to associate users with IP addresses.

**Illustration 1.1 User Agent Communication**




1. The Stonesoft Management Server sends the IP address of the User Agent, and the account name, password and IP address of the Domain Controller to the Stonesoft Firewall.
2. The Stonesoft Firewall sends the configuration information to the User Agent.
3. The User Agent queries the Controller Domain about log-on events from hosts in the domain to keep track of when a user logs on or logs off, a user's IP address changes, or a user acquires the same IP address that was previously associated with another user.
   - The User Agent can optionally be set to periodically send ICMP echo (ping) requests to users' workstations to monitor which users are active. If a user's workstation does not respond, the user is removed from the list of IP addresses. In cases where ping requests to workstations are not allowed or are unreliable, users' connections may be incorrectly closed. In these cases, workstation monitoring should not be enabled.
4. The Domain Controller replies to the User Agent.
   - Users are associated with IP addresses based on logs collected by the Active Directory Domain Controller. For this reason, it is only possible to associate one user with each IP address from a client computer. It is not recommended to use the User Agent with domains that include terminal servers or other computers that have many users logged on at the same time.
5. The User Agent verifies the information received from the Domain Controller and sends information about the user, IP address, and timestamp of log-on events to the Stonesoft Firewall.

## Configuration Overview

1. Plan whether you will install the User Agent software locally on the Domain Controller or on another Windows system in the domain.
   - If there is only one Domain Controller it is recommended to install the User Agent on the same server for more efficient communication.
2. Configure the necessary elements in the Stonesoft Management Center as instructed in the section titled **Enabling Access Control by User** in the *Stonesoft Administrator's Guide* or the Management Client *Online Help*.
3. Configure the Windows system and the Domain Controller as instructed in this How-To document.
4. Install the User Agent software as instructed in Installing the User Agent Software (page 11).
5. (*Optional*) Enable Workstation Monitoring to monitor which users are active. See Workstation Monitoring (page 11).

# Selecting the User Account to Run the User Agent

Usually administrator privileges are sufficient for the user account that runs the User Agent. However, depending on settings in the Windows environment, the User Agent user may need Domain Administrator privileges. If the User Agent is installed on a different server than the Domain Controller or if the User Agent needs to contact a remote Domain Controller, Domain Administrator privileges are always needed.

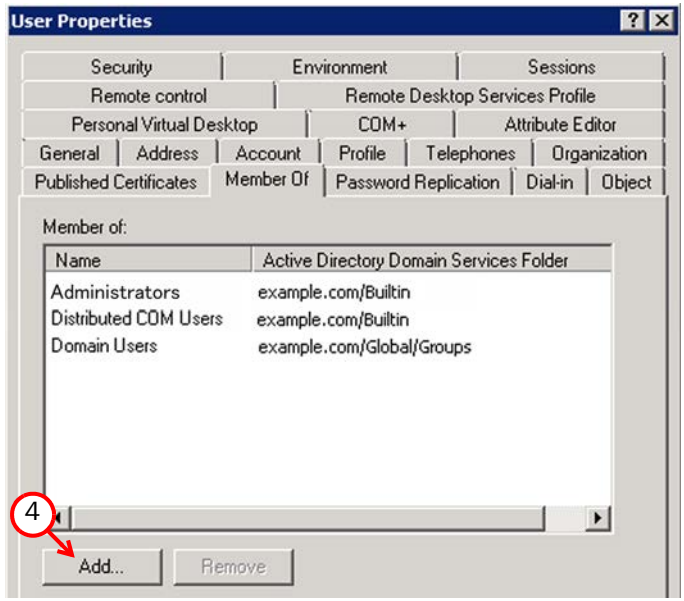
1. On the Windows system where you will install the User Agent, select **Control Panel→System Security→Administrative tools→Services**.

**Note – In older Windows versions, select Control Panel→Administrative tools→Services.**

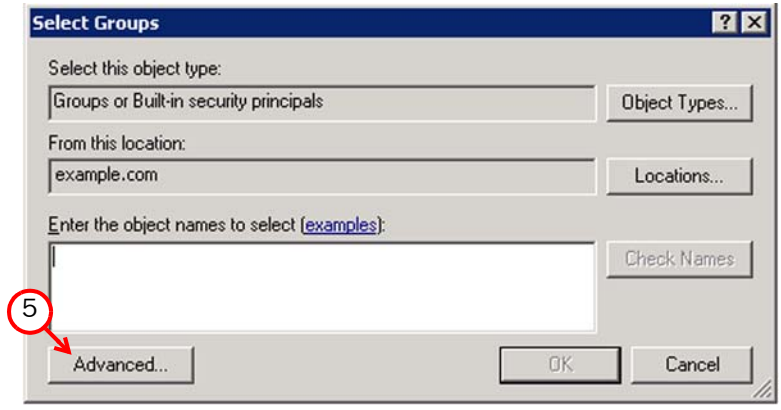
2. Right-click the **Stonesoft User Agent Service** and select **Properties**.
3. Switch to the **Log On** tab.
4. Select **This account** and type in the username of the user that has rights to connect to the Domain Controller.

# Setting Access Rights on the Domain Controller

1. On the Domain Controller, select **Windows Server→Start→Administrative tools→Active Directory Users and Computers→Users**.
2. Select an existing user or create a new user. Open the user properties.
3. Switch to the **Member Of** tab.



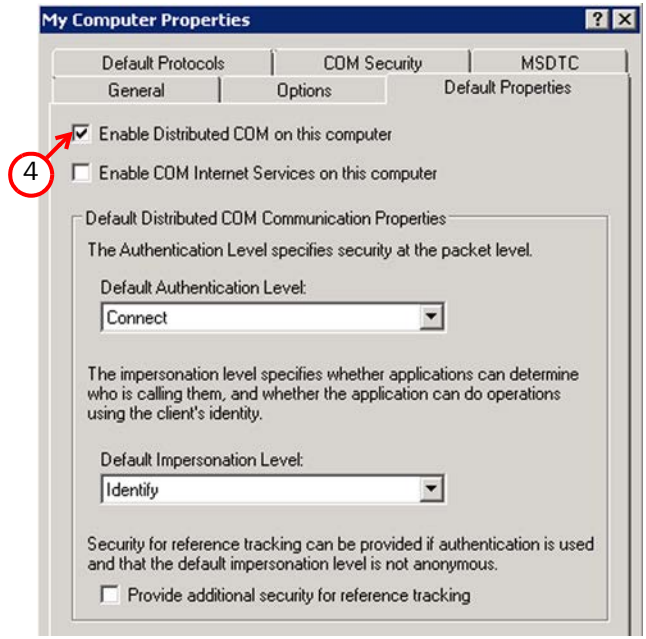

4. Click **Add**. The Select Groups dialog opens.




5. Select **Advanced** and click **Find Now**.
6. Select and double-click the **Distributed COM Users** group.
7. Click **OK**.
8. Repeat Step 4 to Step 7 to add the user to the following groups:
   - **Administrators**
   - **Domain Users**
9. Click OK to close the user properties.

# Verifying that DCOM is Allowed on the Domain Controller

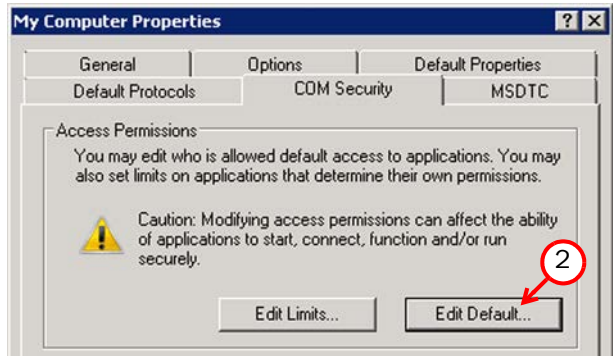
1. On the Domain Controller, select **Start→Administrative tools→Component Services**.
2. Browse to **Component Services→Computers**.
3. Right-click **My Computer** and select **Properties**. The My Computer Properties dialog opens.




4. Switch to the **Default Properties** tab and make sure that **Enable Distributed COM on this computer** is selected.

# Editing COM Security Permissions on the Domain Controller

1. Switch to the **COM Security** tab.

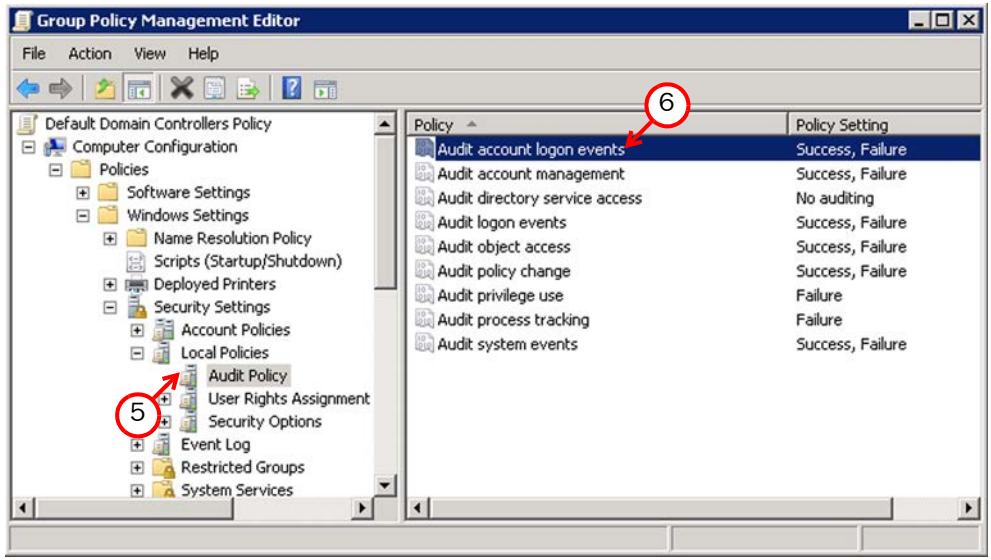



2. Click **Edit Default** in the Access Permissions section. The Access Permission dialog opens.
3. Click **Add** and select the user that is used to connect to the Domain Controller.
4. Select **Allow** for the following permissions:
   - Local Access.
   - Remote Access.
5. Click **OK** to close the Access Permission dialog.


6. Click **Edit Default** in the Launch and Activation Permissions section. The Launch and Activation Permission dialog opens.
7. Click **Add** and select the user that is used to connect to the Domain Controller.
8. Select **Allow** for the following permissions:
   - Local Launch.
   - Remote Launch.
   - Local Activation.
   - Remote Activation.
9. Click **OK** to close the Launch and Activation Permission dialog.
10. Click **OK** to close the My Computer Properties dialog.

# Auditing Successful Login Events

1. On the Domain Controller, select **Start→Administrative tools→Group Policy Management**.
2. Browse to **Group Policy Objects** and select the **Default Domain Controllers Policy**.
3. Switch to the **Settings** tab in the right panel.
4. Right-click **Default Domain Controllers Policy** in the left panel and select **Edit**.



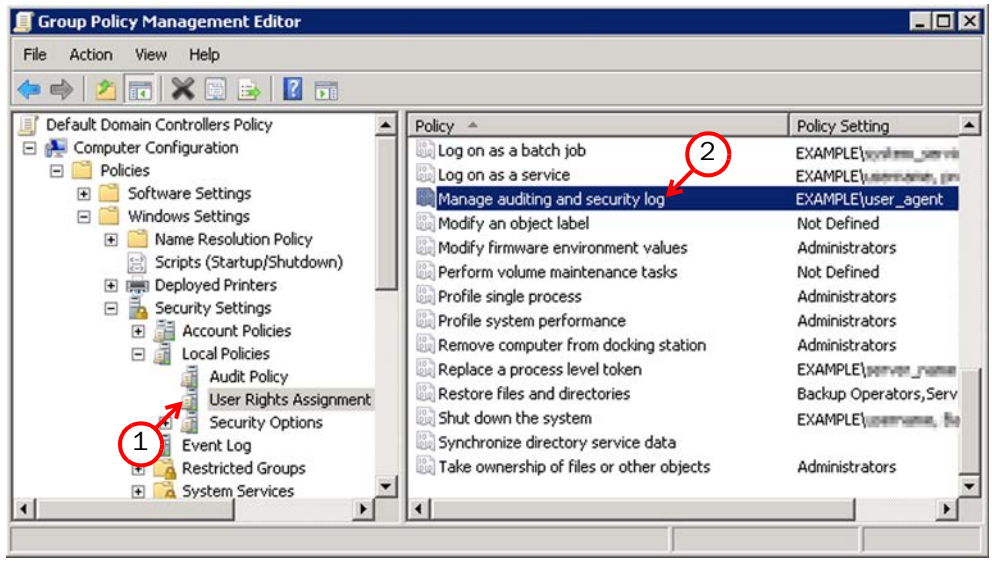

5. Browse to **Computer Configuration→Policies→Windows Settings→ Security Settings→Local Policies→Audit Policy**.
6. Right-click **Audit account logon events** and select **Properties**. The Audit Account Logon Events Properties dialog opens.


7. Select **Success** and click **OK** to close the Audit Account Logon Events Properties dialog.

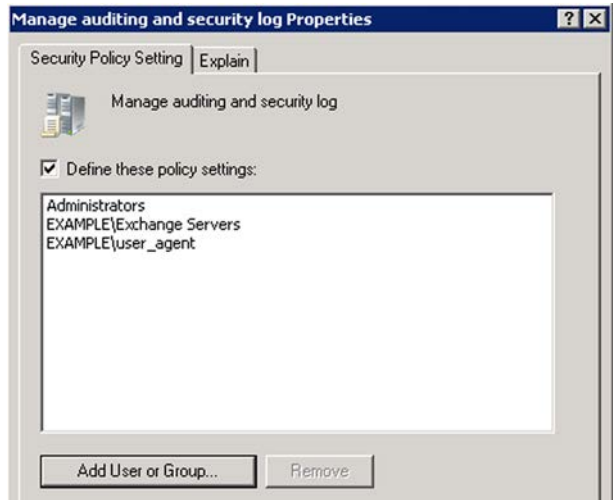
**Note – Depending on your existing configuration, auditing of Failure events may also be enabled. This does not affect the functioning of the User Agent.**

# Allowing Security Log Queries on the Domain Controller

1. Browse to **Computer Configuration→Policies→Windows Settings→ Security Settings→Local Policies→User Rights Assignment**.



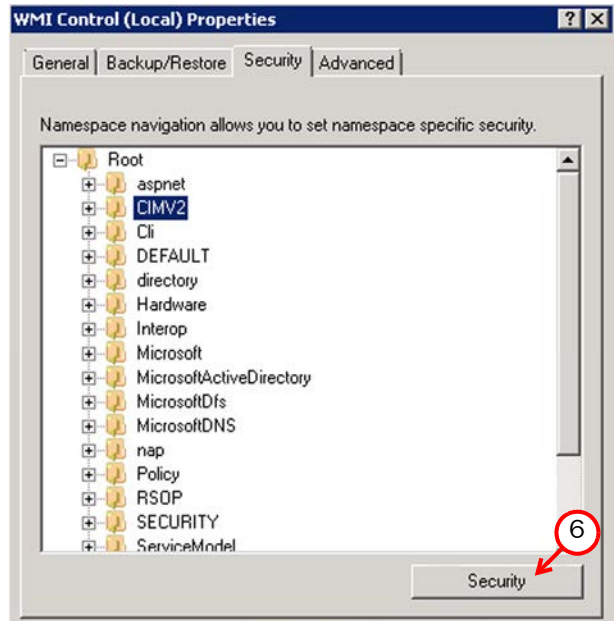

2. Right-click **Manage Auditing and Security Log** and select **Properties**. The Manage Auditing and Security Log Properties dialog opens.



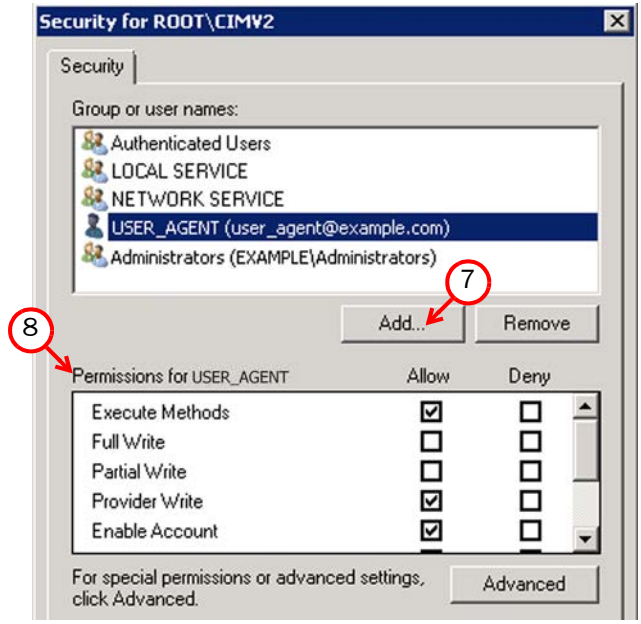

3. Click **Add User or Group** and select the user that is used to connect to the Domain Controller.
4. Click **OK** to close the Manage Auditing and Security Log Properties dialog.

# Configuring WMI Permissions on the Domain Controller

1. On the Domain Controller, select **Start→Run**.
2. Type `wmimgmt.msc` and click **OK**. The WMI Control console opens.
3. Right-click **WMI Control** and select **Properties**. The WMI Control (Local) Properties dialog opens.




4. Switch to the **Security** tab.
5. Browse to **Root→CIMV2**.
6. Click the **Security** button. The Security for Root\CIMV2 dialog opens.




7. Click **Add** and type in or find the username of the user that is used to connect to the Domain Controller.
8. Select the following permissions for the user:
   - Execute Methods.
   - Provider Write.
   - Enable Account.
   - Remote Enable.
   - Read Security.
9. Click **OK** to close the Security for Root\CIMV2 dialog.
10. Click **OK** to close the WMI Control (Local) Properties dialog.

**Note – Depending on your existing configuration, there may be other settings that override the settings you configure here to allow the User Agent to query the Domain Controller, or to allow the Domain Controller to create security log entries on user logon events.**

## Installing the User Agent Software

User Agent installation requires administrator rights on the Windows system. After installation, the User Agent service must run with sufficient permissions to allow it to monitor the domain controller's Security Event Log.

### ▼ To install a User Agent

1. Log in to the system where you are installing the User Agent with the user account you configured to run the User Agent.
2. Transfer the User Agent installation files and the configuration `.zip` file to the computer.
3. Run `UIA_Installer.exe`. The installation wizard starts.
4. Click **Next**. The License Agreement opens.
5. Click **I Agree** to accept the license.
6. (*Optional*) Click **Browse** and select the installation folder.
7. Click **Install**. You may be prompted to install additional components that the User Agent requires.
8. Install any additional components as instructed in the installation wizards for those components. When the installation returns to the User Agent installation wizard, click **Next**.
9. Click **Finish**. The User Agent properties open.
10. Click **Import Configuration** and select the configuration `.zip` file.
11. Click **OK**.

## Workstation Monitoring

The User Agent can optionally be set to periodically send ICMP echo (ping) requests to users' workstations to monitor which users are active.

**Note – If a user's workstation does not respond, the user is removed from the list of IP addresses. In cases where ping requests to workstations are not allowed or are unreliable, users' connections may be incorrectly closed. In these cases, workstation monitoring should not be enabled.**

# Stonesoft Guides

*Administrator's Guides* - step-by-step instructions for configuring and managing the system.

*Installation Guides* - step-by-step instructions for installing and upgrading the system.

*Reference Guides* - system and feature descriptions with overviews to configuration tasks.

*User's Guides* - step-by-step instructions for end-users.

For more documentation, visit
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