



SurfProtect®

Quantum Setup Guide

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Located entirely in the cloud, SurfProtect Quantum performs network-level filtering, this means that all traffic on your school's internet connection is filtered, regardless of the machine or device used to access it. As a result, you do not need to install any hardware on your school's premises - instead, you can be assured that you are receiving industry-leading protection, without having to configure and maintain an on-site device!

Providing categorised, age-appropriate filtering, BYOD protection, search term filtering, safeguarding support, subscription to the Internet Watch Foundation and Home Office Terrorism Watch List, all with the flexibility to create the exact level of filtering you want for your school, you can be assured that SurfProtect Quantum protects your staff and students from the many dangers present online - and that you are in accordance with the current framework.

Below we have detailed many of the features you will receive with SurfProtect Quantum.

Filtering		Single Sign-on	
HTTP filtering	✓	Active Directory	✓
HTTPS decryption	✓		
Intercept BYOD	✓	Logs	
Realtime classification	✓	Includes all search queries	✓
		Indicate user	✓
Encrypted Websites		Analytics	
Enforce Google SafeSearch	✓	Analytics dashboard	✓
Keyword filtering	✓	Search query report	✓
Identification		Administration	
External IP	✓	Centralised control panel	✓
Username	✓	Single sign-on authentication	✓
Groups	✓		

In order to receive completely cloud-based filtering, there are a few things to do on your network which enable us to perform AD integration and HTTPS filtering on your school's internet connection.

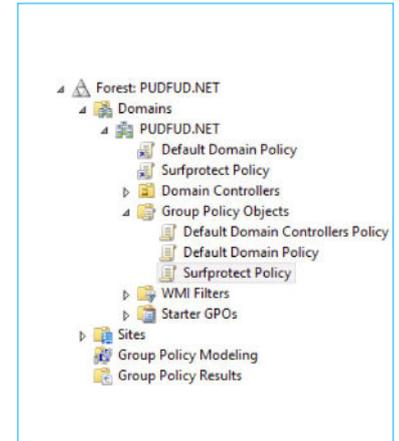
Please complete the following steps to allow these features of your filtering service to be enacted. HTTPS and Keyword Filtering will not be activated on initial set up, to enable these features or if you require help at any point, please contact our dedicated Technical Support Team on 0345 145 1234 or by emailing helpdesk@exa.net.uk

SurfProtect's cloud-based HTTPS filtering feature requires that all devices on your network trust Exa. This document provides guidance to enable this across your network, however, should you require any additional help then please do not hesitate to contact our dedicated Support Team on **0345 145 1234** or by emailing helpdesk@exa.net.uk

A certificate published by Exa needs to be installed on each device within your network. This can be done on a per machine basis, however we have detailed how to deploy the necessary certificate using various management tools below.

Deployment with Active Directory

1. Download your SurfProtect Quantum certificate at www.exa.is/certificate
2. Once you are logged into your active directory server, go to **Start > Administrative Tools > Group Policy Management**
3. Identify the Group Policy Object that you wish to edit (optionally, you may wish to create a new Group Policy Object to define all SurfProtect settings in one place)
4. Right click the newly created Group Policy Object and select **Edit**
5. Navigate to **Computer Configuration > Policies > Windows Settings > Security Settings > Public Key Policies**
6. Right click on the folder **Trusted Root Certification Authorities** and select **Import**
7. Follow the steps in the **Certificate Import Wizard**, providing the location of the certificate downloaded from the SurfProtect panel when prompted for a file to import



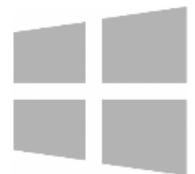
Deployment with Google Admin Console (GSuite)

1. Download your SurfProtect Quantum certificate at www.exa.is/certificate
2. Log into the admin panel at <https://admin.google.com>
3. Navigate to Device Management
4. In the **DEVICE SETTINGS** menu on the left, select Network
5. Select **Certificate > ADD CERTIFICATE**
6. Navigate to the previously downloaded certificate
7. Ensure that the option labelled Use this certificate as an HTTPS certificate authority is checked
8. Click **Save**



Individual Windows Machine Installation

1. Download your SurfProtect Quantum certificate at www.exa.is/certificate
2. Click the Windows Start Button and type '**mmc**' into the search bar to locate and run the Microsoft Management Console
3. Navigate to the **File menu > Add/Remove Snap-in**
4. From the **Available Snap-ins** pane, select **Certificates** and then click on the button labelled **Add**
5. In the **Certificates Snap-in** wizard, select **Computer Account** or **Local Computer** when prompted for which context the snap-in should manage certificate for
6. Click **Finish** to close the wizard and **OK** to close the snap-ins window
7. In the console tree, double-click on **Certificates**
8. Right-click the **Trusted Root Certification Authorities** and click **Import**
9. Follow the steps in the **Certificate Import Wizard**, providing the location of the certificate downloaded from the SurfProtect panel when prompted for a file to import



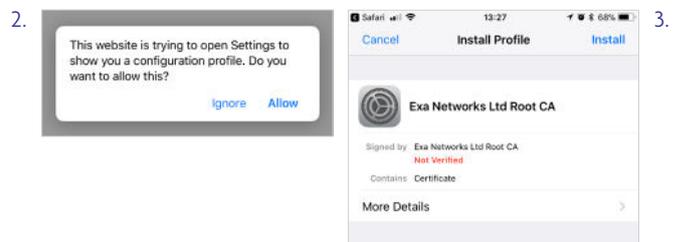


Individual Mac OS X Installation

1. Download your SurfProtect Quantum certificate at www.exa.is/certificate
2. Launch **Keychain Access**
3. From the **Keychain Access** toolbar, select **File > Import Items**
4. Provide the location of the downloaded certificate when prompted for a file location and click **Open**
5. Double-click on the newly imported certificate, labelled **Exa Networks Ltd CA**
6. In the Trust section of the newly opened window, set the value in the dropdown labelled **Secure Sockets Layer (SSL)** to **Always Trust**
7. Close the current window to apply changes
8. Enter your system password when prompted and click on **Update Settings**

Individual iOS Installation

1. Navigate to www.exa.is/certificate
2. Tap **Allow** on the pop-up
3. On the following screen tap Install (if using iOS 12.x, you can find this in **Settings > Profile Downloaded**)
4. Input your **Passcode** if prompted
5. Confirm by tapping **Install**
6. Return to **Settings** and follow: **General > About > Certificate Trust Settings** and Enable 'Exa Networks Ltd Root CA' by tapping the slider



Individual Chromebook Installation

1. Download your SurfProtect Quantum certificate at www.exa.is/certificate
2. Scroll to the bottom of your Chromebook's **Settings** page and click on **Show Advanced Settings**
3. Under the **HTTPS/SSL** section, click on **Manage Certificates**
4. Navigate to the Authorities tab in the **Certificate Manager** and click **Import**
5. Select the certificate from your **Downloads** location and click on **Open**



For newer versions of Chromebook:

1. Download your SurfProtect Quantum certificate at www.exa.is/certificate
2. Open the **Chrome Browser**
3. Go to **Settings**
4. Click **Privacy & Security** on the left hand side menu
5. Click **Security** in the middle
6. Scroll down to **Manage Certificates**
7. Ensure you click **Authorities**, then **Import**



Individual Android Version 7-10 Installation

1. Navigate to www.exa.is/certificate
2. This will prompt a download, click **Open**
3. Input your **Passcode** when prompted
4. Set the certificate name then choose credential use as **VPN** and **Apps** option
5. Tap OK, this will then install and become a user certificate



Individual Android Version 11 Installation

1. Open Device settings
2. Go to **Security** (or **Biometrics & Security**)
3. Go to **Other Security Settings**
4. Go to **Install From Storage** or **Install a Certificate** (depending on devices)
5. Select **CA Certificate** from the list of types available
6. Accept a warning alert
7. Navigate to the certificate file on the device and click **Open** to confirm the certificate install

Installation Verification

You can check whether the certificate is being successfully trusted by visiting the SurfProtect Certificate Status page at <http://certcheck.surfprotect.co.uk>

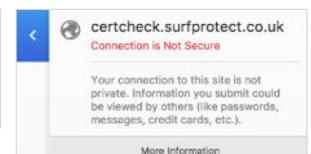
This page will automatically detect the location you're browsing from so it can present a certificate signed by the authority you've trusted during negotiation of the secure HTTPS connection.

If your browser shows that the connection is safe then this validation serves as proof that the service certificate is trusted.

If you don't already have SurfProtect configured to transparently decrypt all web traffic you can test decryption by configuring your browser to use proxy.quantum.exa-networks.co.uk on **port 3128**.



Certificate successfully trusted



Certificate not trusted



SurfProtect Quantum integrates with Active Directory to provide 'per user' policy filtering and reporting. To achieve this, your AD data needs to be imported to SurfProtect. This document provides guidance on this process, however, should you require any additional help then please do not hesitate to contact our dedicated Technical Support Team on **0345 145 1234** or by emailing **helpdesk@exa.net.uk**

Important: If you do not want to enact the AD integration feature of SurfProtect Quantum, or do not have an AD server, you do not need to perform the following steps.

This will prevent these devices accessing any website belonging to a restricted SurfProtect category, or any website that you have added to your blocked list.

Why Synchronise your Active Directory Data with SurfProtect?

Individual users are represented in Active Directory by a unique user account and by membership to an arbitrary number of group accounts. With Active Directory integration enabled, SurfProtect can apply different filtering policies to unique users as well as group accounts. SurfProtect also uses the information from the data synchronisation to display the real names of your users to enrich the data provided by our data analytics panel.

Steps

1. Download the SurfProtect Quantum configuration script at www.exa.is/installing
2. Update the local proxy settings on the AD server with the below proxy settings:
 - **Proxy Address:** proxy.quantum.exa-networks.co.uk
 - **Port:** 3128
3. Right click on the downloaded file and select **'Run with Powershell'**
Note: This script must be run directly on your Active Directory domain server in order to perform all necessary configuration
4. Select **'Open'** in the security dialogue box that appears
5. Follow the commands on screen, the script should complete in a matter of minutes
6. In order for SurfProtect integration with Active Directory SSO to function, your operating system or web browser must be configured to use the SurfProtect AD proxy service below.
 - **Proxy Address:** ad.quantum.exa-networks.co.uk
 - **Proxy Port:** 3128

The service on this hostname is dedicated specifically to Active Directory.

Single Sign-On

Single sign-on (SSO) is an authentication service that allows a user to access multiple applications with one set of login credentials (e.g. username and password), often without the need to retype these details once they have logged in to the computer.

Why is SSO Important for SurfProtect?

SurfProtect communicates with popular SSO schemes in order to obtain information about which user is accessing a web page or other resource hosted on a website. This information is used both to provide granular filtering control, and to ensure that the logs and reports available with SurfProtect Analytics clearly identify which user accessed or requested which online content.



Windows Active Directory

SSO is achieved with Active Directory by requesting a user's information from the web browser whenever a web resource is requested by a machine in your school's local domain.

Running the above script will establish trust between your school's domain controller and our proxy servers. This means that when a user requests access to a website, the web browser will be able to communicate with the domain controller to identify the individual and provide SurfProtect with trusted proof of who that person is. As a result, SurfProtect can then filter the web request according to that individual's filtering profile, and record their online activity.

As SSO requires direct authentication against our proxy servers, Active Directory SSO requires web browsers to be configured with explicit proxy settings. Fortunately, these settings can be pushed to all Windows devices by creating a Group Policy Object; using this mechanism also helps to prevent settings from being manually changed by students.

Mixed Environments

If your school uses devices outside of your AD domain, such as iPads and Chromebooks, which are not managed as part of your local domain, individual user filtering and identification will not be possible.

These devices will still receive transparent SurfProtect filtering when connected to your school's network, however user identity information and profile matching will not be enacted and web logs will not be populated with user or machine identities.

Depending on your school's mobile device and guest internet policies, it may be that you wish to always prevent unlogged internet access from being performed. If this is the case, you can disable non-authenticated filtering in the SurfProtect panel. In doing this, students or visitors attempting to access the school's internet service on a mobile device will be presented with a screen which advises that they are unable to do so and must instead login to a configured machine.