deviceTRUST 21.1

Contents

Welcome

September 6, 2025

The deviceTRUST® documentation provides information about the installation, setup and a product reference for deviceTRUST.

Quick setup

To get started with deviceTRUST, choose your Architecture and then take a look at the Getting Started guide.

More information

- Architecture describes the different deployment scenarios.
- Getting Started provides the essential steps for a successful deviceTRUST installation.
- Download provides links that can be used to download the latest deviceTRUST Software.
- Installation details some important usage scenarios, plus how to install the deviceTRUST Console, Agent and Client Extension.
- Templates details the templates which can be used to quickly implement a use case.
- Reporting contains information about analyzing and reporting contextual information of your users and devices.
- Reference provides a set of reference material describing the more advanced features of deviceTRUST.
- Troubleshooting important steps are described to help troubleshoot the deviceTRUST installation and configuration.
- Releases contains the release notes detailing new features and bug fixes within the released deviceTRUST products.

Architecture

June 20, 2025

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- Remote Scenario
- OS Compatibility
- Platform Compatibility

Local Scenario

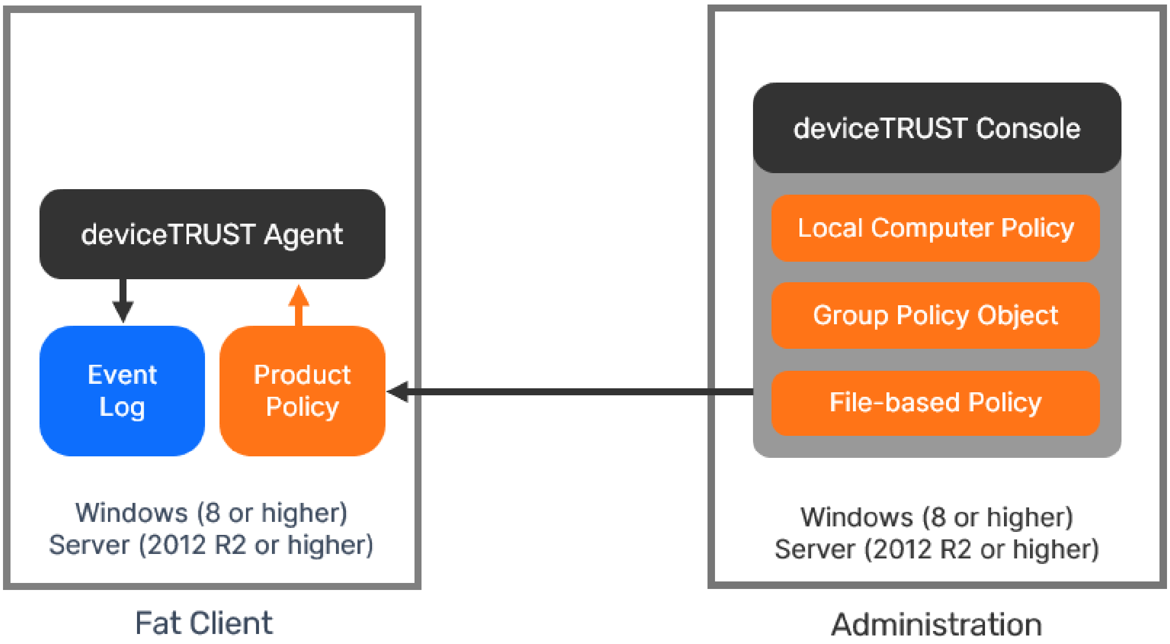
deviceTRUST requires only one main component when installing on local devices, the deviceTRUST Agent. The deviceTRUST component can be installed and configured within minutes and can be fully integrated with existing deployment processes and management tools. No additional infrastructure (e.g. a database or a web server) is required for deviceTRUST to be installed in your environment.

deviceTRUST® Agent

This component needs to be installed on the local device. The Property Reference describes which properties of the local agent are available within the users'session.

Architecture - Microsoft Windows local devices

The following diagram details the deviceTRUST architecture when the agent is installed on a Windows OS, with deviceTRUST making the user and device context information available within the local desktop session. Policy is made available to the deviceTRUST Agent using existing Microsoft Active Directory Group Policy Management or file-based. All operations performed by the deviceTRUST Agent are written to the Microsoft Windows Event Log.



Remote Scenario

deviceTRUST consists of two main components when installing in remote environments, the deviceTRUST Agent and the deviceTRUST Client Extension. Both deviceTRUST components can be installed and configured within minutes and can be fully integrated with existing deployment processes and management tools. No additional infrastructure (e.g. a database or a web server) is required for deviceTRUST to be installed in your environment.

Solutions are provided by deviceTRUST® for both traditional and modern Operating Systems (OS). On a traditional OS such as Microsoft Windows, an extensibility framework is available that enables deviceTRUST to send user and device context within the communication channel between the clients and the Remote Desktop Services host. deviceTRUST also provides a solution for more modern OS's, such as Apple iOS, which offer no extensibility framework.

deviceTRUST Agent

This component needs to be installed on the remoting host that delivers the remote session to the users. The following technologies are supported by deviceTRUST: Amazon WorkSpaces, Citrix Virtual Apps and Desktops™ (CVAD), Microsoft Azure Virtual Desktop (AVD), Microsoft Remote Desktop Session Host (RDSH) or VMware Horizon View.

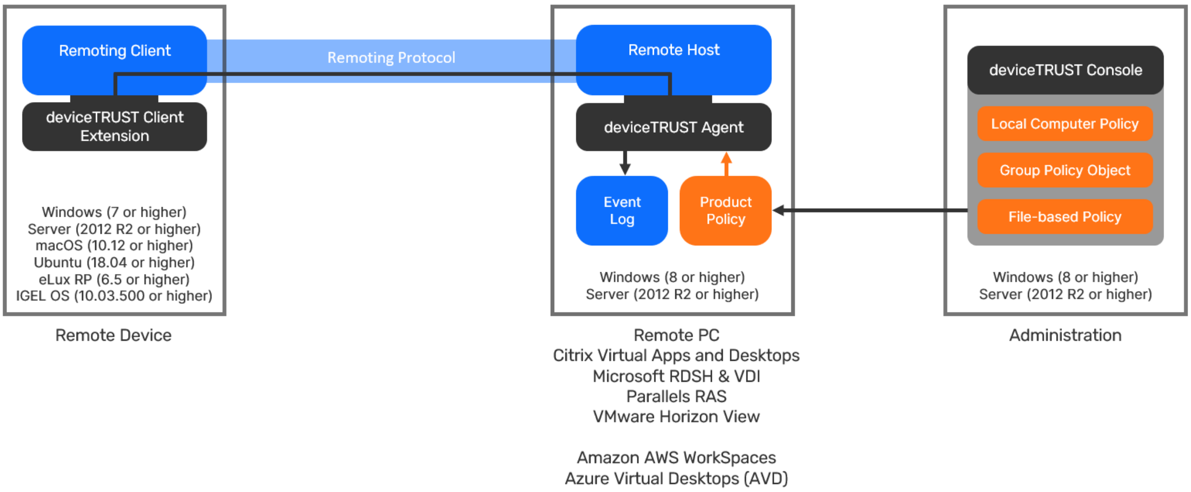
deviceTRUST Client Extension

This component needs to be installed on the remote device which will be used to connect to the remote host delivering the published applications and desktops. It is not required to have deviceTRUST Client Extension installed onto all of your remote devices but recommended to get the full range of context information about the remote device and its user into the users'virtual session.

In the absence of the deviceTRUST Client Extension on the remote device, deviceTRUST delivers the LOCAL_* properties into the users'remote session. The Property Reference describes which properties of the local agent and remote device are available within the users'session.

Architecture - Windows, macOS, Ubuntu, eLux® RP or IGEL OS device

The following diagram details the deviceTRUST architecture when the remote client is installed on a Windows, macOS, Ubuntu, eLux RP or IGEL OS device, with deviceTRUST sending the user and device context information within the communication channel offered by the remoting protocol. Policy is made available to the deviceTRUST Agent using existing Microsoft Active Directory Group Policy Management or file-based. All operations performed by the deviceTRUST Agent are written to the Microsoft Windows Event Log.



Operating System Compatibility

- Apple iOS and iPadOS
- Apple macOS
- IGEL OS
- Microsoft Windows
- Ubuntu Desktop

- Unicon eLux

Apple iOS and iPadOS

Compatible operating systems (deviceTRUST® Client Extension):

- Apple iOS 11.x and later
- Apple iPadOS 11.x and later

Compatible technologies:

- Citrix Virtual Apps and Desktops™
- Citrix Cloud™
- Microsoft Remote Desktop Services
- VMware Horizon View (Blast)
- VMware Horizon View (PCoIP)
- VMware Horizon View (RDP)

Apple macOS

Compatible operating systems (deviceTRUST Client Extension):

- Apple macOS 10.13 and later

Compatible technologies:

- Amazon WorkSpaces (PCoIP)
- Citrix Virtual Apps™ and Desktops
- Citrix Cloud
- Microsoft Remote Desktop Services (via FreeRDP 2)
- VMware Horizon View (Blast)
- VMware Horizon View (PCoIP)
- VMware Horizon View (RDP)

IGEL OS

Compatible technologies (deviceTRUST Client Extension):

- Amazon WorkSpaces (PCoIP) natively integrated in IGEL OS 11.08.200 and later - 1
- Citrix Virtual Apps and Desktops natively integrated in IGEL OS 10.03.500 and later
- Citrix Cloud natively integrated in IGEL OS 10.03.500 and later
- Microsoft Azure Virtual Desktop (AVD) natively integrated in IGEL OS 11.08.200 and later - 1

- Microsoft Remote Desktop natively integrated in IGEL OS 10.03.500 and later
- VMware Horizon View (Blast) natively integrated in IGEL OS 10.08.230 and later - 1
- VMware Horizon View (PCoIP) natively integrated in IGEL OS 10.08.230 and later - 1
- VMware Horizon View (RDP) natively integrated in IGEL OS 10.08.230 and later - 1

> **Note**
>
> Compatibility with previous IGEL OS releases is available by contacting deviceTRUST Support.

Microsoft Windows

Compatible operating systems (deviceTRUST Agent and Console):

- Microsoft Windows 10 and later
- Microsoft Windows Server 2012 and later

Compatible operating systems (deviceTRUST Client Extension):

- Microsoft Windows 10 and later
- Microsoft Windows Server 2012 and later

Compatible technologies:

- Amazon WorkSpaces (PCoIP)
- Azure Virtual Desktop
- Azure Active Directory
- Citrix Virtual Apps and Desktops
- Citrix Cloud
- Microsoft Remote Desktop Services
- Parallels Remote Application Server
- VMware Horizon View (Blast)
- VMware Horizon View (PCoIP)
- VMware Horizon View (RDP)

Ubuntu Desktop

Compatible operating systems (deviceTRUST Client Extension):

- Ubuntu Desktop 18.04 LTS and later

Compatible technologies:

- Amazon WorkSpaces (PCoIP)
- Citrix Virtual Apps and Desktops

- Citrix Cloud
- Microsoft Remote Desktop Services (via FreeRDP 2)
- VMware Horizon View (Blast)
- VMware Horizon View (PCoIP)
- VMware Horizon View (RDP)

Unicon™ eLux

Compatible technologies (deviceTRUST Client Extension):

- Citrix Virtual Apps and Desktops natively integrated in eLux RP 6.5 and later
- Citrix Cloud natively integrated in eLux RP 6.5 and later
- Microsoft Remote Desktop natively integrated in eLux RP 6.5 and later

Platform Compatibility

- Amazon Web Services
- Citrix Systems
- Microsoft
- Parallels
- VMware

Amazon Web Services

Compatible technologies:

- Amazon WorkSpaces (PCoIP)

Compatible operating systems:

- Apple macOS 10.13 and later
- IGEL OS 11.08.200 or later - 1
- Microsoft Windows 10 and later
- Microsoft Windows Server 2012 and later
- Ubuntu Desktop 18.04 LTS

> **Note**
>
> 1 Compatibility with previous IGEL OS releases is available by contacting deviceTRUST® Support.

Citrix Systems

Compatible technologies:

- Citrix Virtual Apps and Desktops™
- Citrix Cloud™

Compatible operating systems:

- Apple iOS 11.x and later
- Apple iPadOS 11.x and later
- Apple macOS 10.13 and later
- IGEL OS 10.03.500 or later
- Microsoft Windows 10 and later
- Microsoft Windows Server 2012 and later
- Ubuntu Desktop 18.04 LTS and later
- Unicon eLux RP 6.5 and later

Microsoft

Compatible technologies:

- Microsoft Remote Desktop Services
- Azure Virtual Desktop - 1
- Azure Active Directory - 2

Compatible operating systems:

- Apple iOS 11.x and later - 1
- Apple iPadOS 11.x and later - 1
- Apple macOS 10.13 and later (via FreeRDP 2)
- IGEL OS 11.08.200 or later - 3(via RDP Session)
- Microsoft Windows 10 and later
- Microsoft Windows Server 2012 and later
- Ubuntu Desktop 18.04 LTS and later (via FreeRDP 2)

> **Note**
>
> - 1 Compatibility with Azure Virtual Desktop is available on Microsoft Windows and IGEL OS only.
> - 2 ompatibility with Azure Active Directory provided by deviceTRUST Agent on Microsoft Windows only.

> - 4 Compatibility with previous IGEL OS releases is available by contacting deviceTRUST Support.

Parallels

Compatible technologies:

- Parallels Remote Application Server

Compatible operating systems:

- Microsoft Windows 10 and later
- Microsoft Windows Server 2012 and later

VMware

Compatible technologies:

- VMware Horizon View (Blast)
- VMware Horizon View (PCoIP)
- VMware Horizon View (RDP)

Compatible operating systems:

- Apple iOS 11.x and later
- Apple iPadOS 11.x and later
- Apple macOS 10.13 and later
- IGEL OS 10.08.230 or later - 1
- Microsoft Windows 10 and later
- Microsoft Windows Server 2012 and later
- Ubuntu Desktop 18.04 LTS and later

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> 1 Compatibility with previous IGEL OS releases is available by contacting deviceTRUST Support.

Getting Started

deviceTRUST® requires some simple but essential configuration steps to be performed to enable deviceTRUST functionality for your remoting environments or for your local devices.

Scenario: Remote

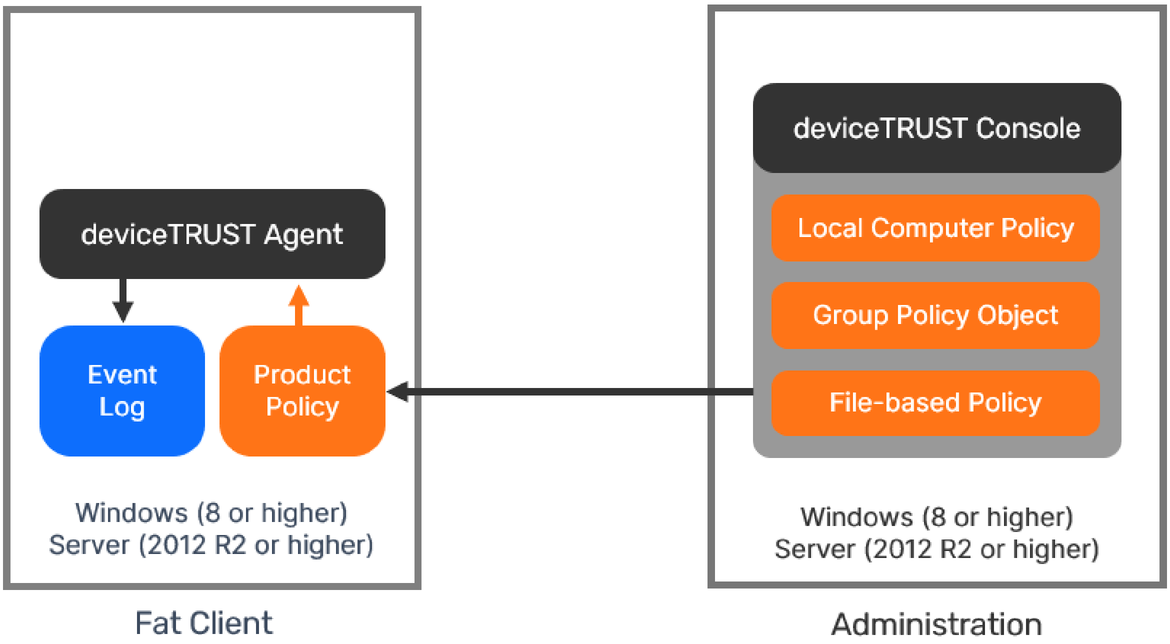
In remote scenarios, deviceTRUST transports the context information from the users remote device into the virtual session where the configuration is enforced. Please visit Getting Started for Remote Devices to begin the guide.

Scenario: Local

In local scenarios, deviceTRUST collects context information and executes actions locally. Please visit Getting Started for Local Devices to begin the guide.

Getting Started for Local

deviceTRUST® requires some simple but essential configuration steps to be performed to enable deviceTRUST functionality for your local devices. We will guide you step-by-step through simple deviceTRUST installation and configuration steps to enable deviceTRUST with an unauthorized USB drives use case for your local devices.



We will perform the following steps:

- Step 1: Download the deviceTRUST setup binaries
- Step 2: Install the deviceTRUST Agent
- Step 3: Install the deviceTRUST Console
- Step 4: Enter your deviceTRUST License

- Step 5: Enable the Unauthorized USB Drive use case
- Step 6: Test the Unauthorized USB Device use case

Step 1: Download the deviceTRUST setup binaries

The latest deviceTRUST software can be found on our Download page and your personalized license can be found within your product license certificate.

Step 2: Install the deviceTRUST Agent

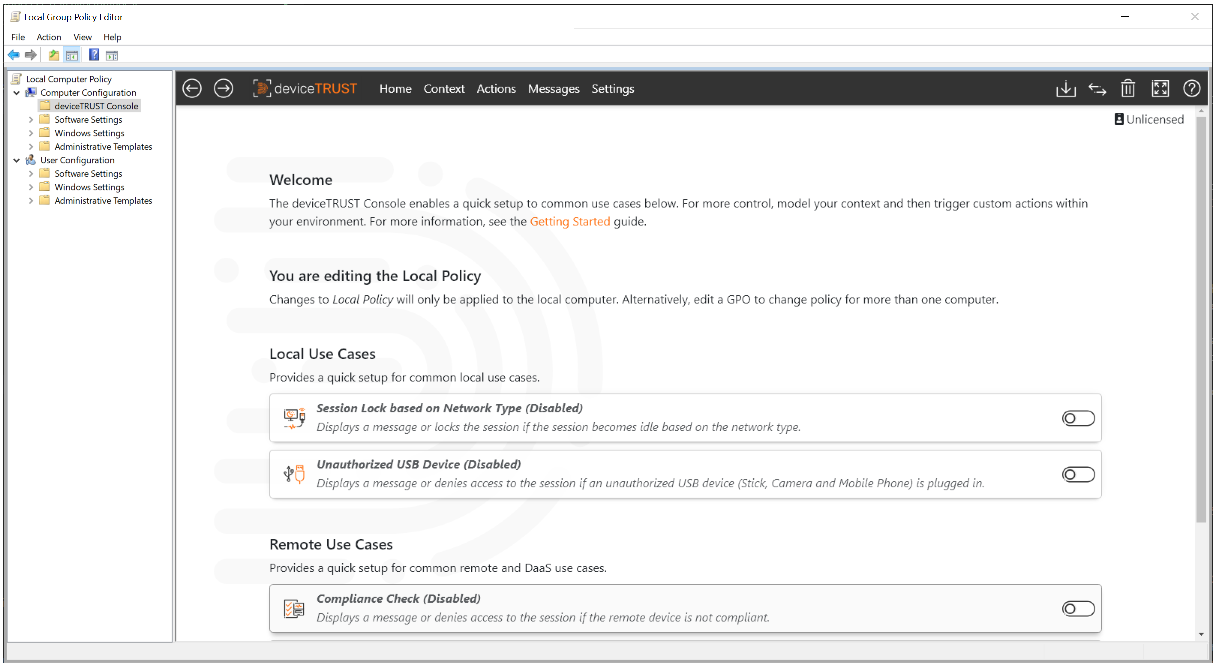
Start the installation of the deviceTRUST Agent on your local device. Follow the steps in the section Installing the Agent to complete the installation.

Step 3: Install the deviceTRUST Console

To configure and to apply contextual security policies to the deviceTRUST Agent you need to use the deviceTRUST Console. The deviceTRUST Console supports various ways to provide the contextual security policies to the deviceTRUST Agent. Those options are using the Local Policy Editor, a Group Policy Object (GPO) or file-based.

Within the Getting Started Guide, for simplicity, we use the Local Policy Editor to quickly and efficiently create, edit, and use contextual security policies. Follow the steps in the section Installing the Console to complete the installation.

The deviceTRUST Console includes a node within the Local Policy Editor `COMPUTER CONFIGURATION\DEVICETRUST CONSOLE` which can be used to model the context of a user, and then act on changes to that context by triggering custom actions within your environment.



Welcome

The deviceTRUST Console enables a quick setup to common use cases below. For more control, model your context and then trigger custom actions within your environment. For more information, see the Getting Started guide.

You are editing the Local Policy

Changes to *Local Policy* will only be applied to the local computer. Alternatively, edit a GPO to change policy for more than one computer.

Local Use Cases

Provides a quick setup for common local use cases.

Session Lock based on Network Type (Disabled)
Displays a message or locks the session if the session becomes idle based on the network type.

Unauthorized USB Device (Disabled)
Displays a message or denies access to the session if an unauthorized USB device (Stick, Camera and Mobile Phone) is plugged in.

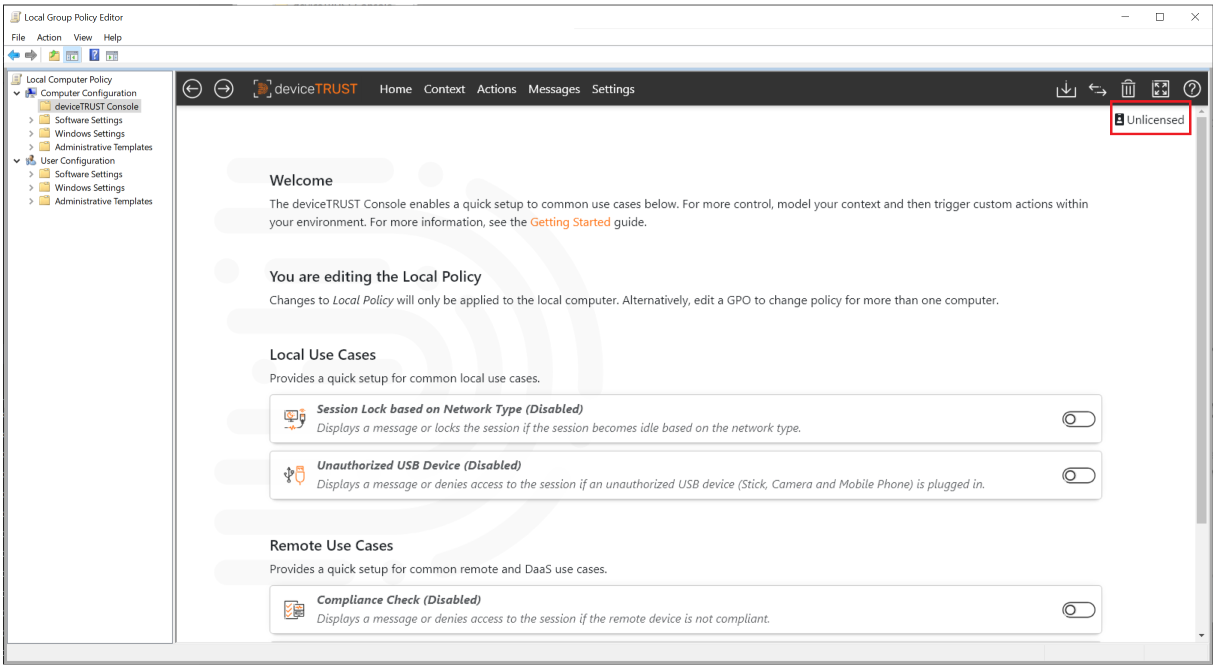
Remote Use Cases

Provides a quick setup for common remote and DaaS use cases.

Compliance Check (Disabled)
Displays a message or denies access to the session if the remote device is not compliant.

Step 4: Enter your deviceTRUST License

To add the license into the deviceTRUST contextual security policy open the Local Policy Editor and navigate to `DEVICETRUST CONSOLE` and click on the `UNLICENSED` link on the homepage.



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Compliance Check (Disabled)
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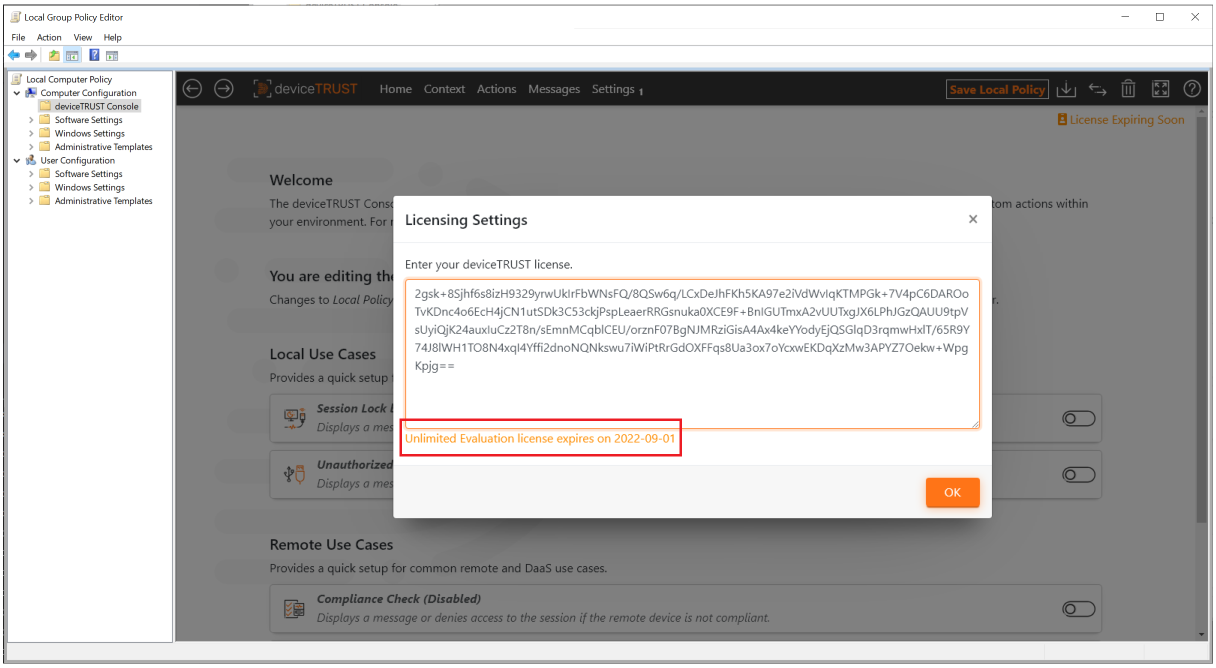
Enter your deviceTRUST license and make sure it is valid. Close the license editor with `OK` and click on `SAVE TO LOCAL COMPUTER POLICY` in the top right toolbar.



Welcome

The deviceTRUST Conso … tom actions within your environment. For r …

You are editing th…

Changes to *Local Policy* …

Local Use Cases

Provides a quick setup …

Session Lock …

Displays a mes…

Unauthorized…

Displays a mes…

Licensing Settings

Enter your deviceTRUST license.

```
2gsk+8Sjhf6s8izH9329yrwUkIrFbWNsFQ/8QSw6q/LCxDeJhFKh5KA97e2iVdWvIqKTMPGk+7V4pC6DAROo
TvKDnc4o6EcH4jCN1utSDk3C53ckjPspLeaerRRGsnuka0XCE9F+BnIGUTmxA2vUUTxgJX6LPhJGzQAUU9tpV
sUyiQjK24auxIuCz2T8n/sEmnMCqblCEU/orznF07BgNJMRziGisA4Ax4keYYodyEjQSGlqD3rqmwHxlT/65R9Y
74J8lWH1TO8N4xqI4Yffi2dnoNQNkswu7iWiPtRrGdOXFFqs8Ua3ox7oYcxwEKDqXzMw3APYZ7Oekw+Wpg
Kpjg==
```

Unlimited Evaluation license expires on 2022-09-01

OK

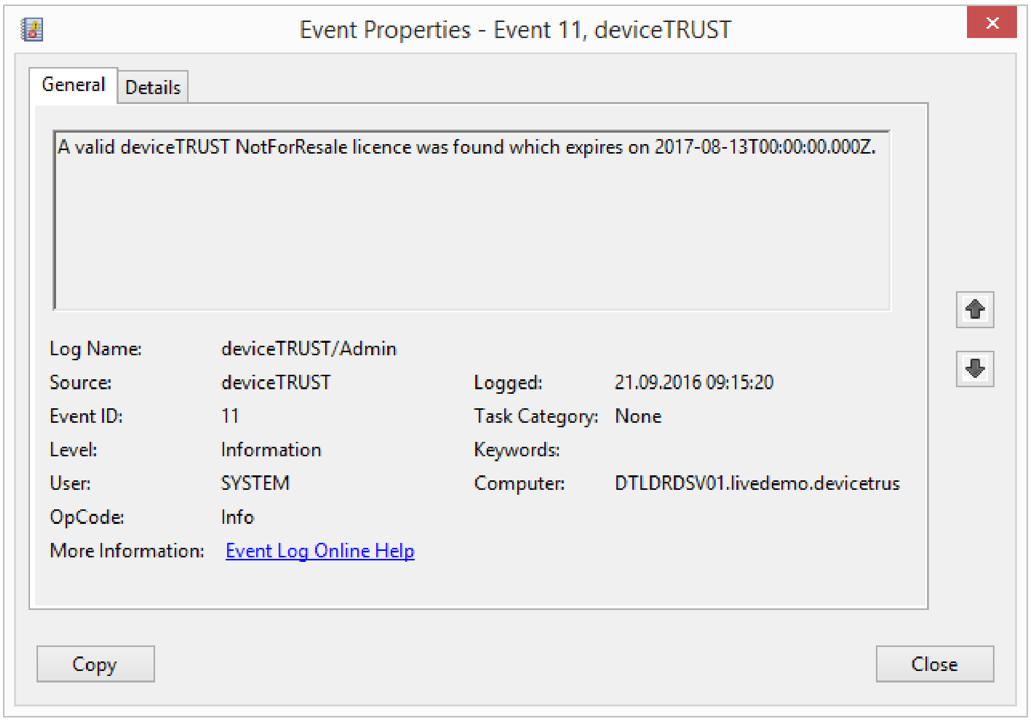
Remote Use Cases

Provides a quick setup for common remote and DaaS use cases.

Compliance Check (Disabled)

Displays a message or denies access to the session if the remote device is not compliant.

deviceTRUST is now enabled and will work for all users except local administrators connecting to that remoting or DaaS host system with deviceTRUST Agent installed. To check if you have added a valid deviceTRUST license, open the Windows Event Log and navigate to `APPLICATION AND SERVICE LOGS\DEVICETRUST\ADMIN` and check for the existence of event ID 11 which states that your deviceTRUST license is valid.

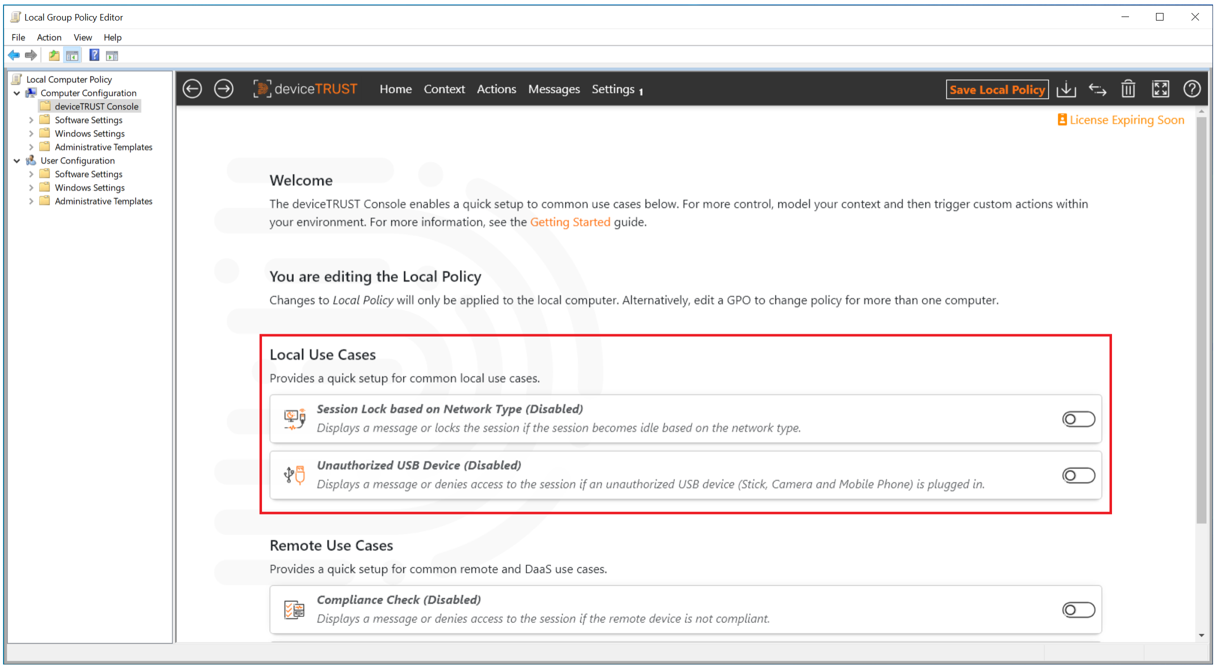


A valid deviceTRUST NotForResale licence was found which expires on 2017-08-13T00:00:00.000Z.

Log Name:	deviceTRUST/Admin		
Source:	deviceTRUST	Logged:	21.09.2016 09:15:20
Event ID:	11	Task Category:	None
Level:	Information	Keywords:	
User:	SYSTEM	Computer:	DTLDRDSV01.livedemo.devicetrus
OpCode:	Info		
More Information:	Event Log Online Help		

Step 5: Enable the Unauthorized USB Drive use case

We will use the deviceTRUST Console to create a contextual security policy that makes access to the session dependent on whether the USB device being used has been authorized. The deviceTRUST Console includes a set of use cases which can be used to quickly implement a use case. Launch the deviceTRUST Console and navigate to `LOCAL USE CASES` on the homepage.



Welcome

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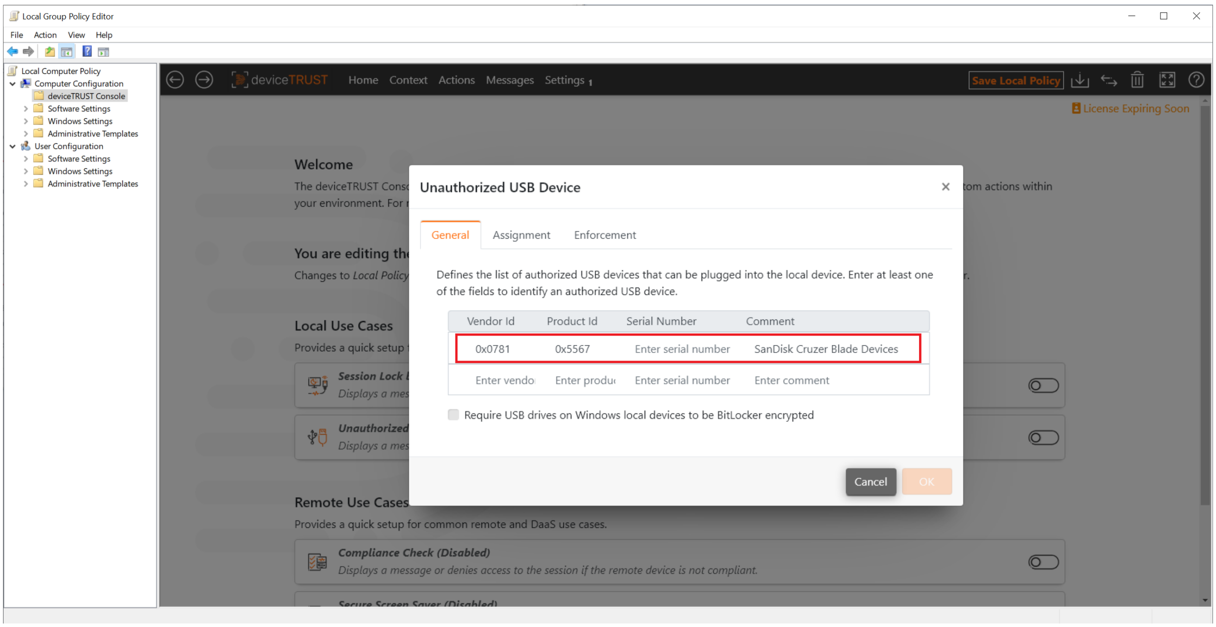
Remote Use Cases

Provides a quick setup for common remote and DaaS use cases.

Compliance Check (Disabled)
Displays a message or denies access to the session if the remote device is not compliant.

Select the `UNAUTHORIZED USB DEVICE` use case and add authorized USB devices on the `GENERAL` tab into the list of authorized USB devices.



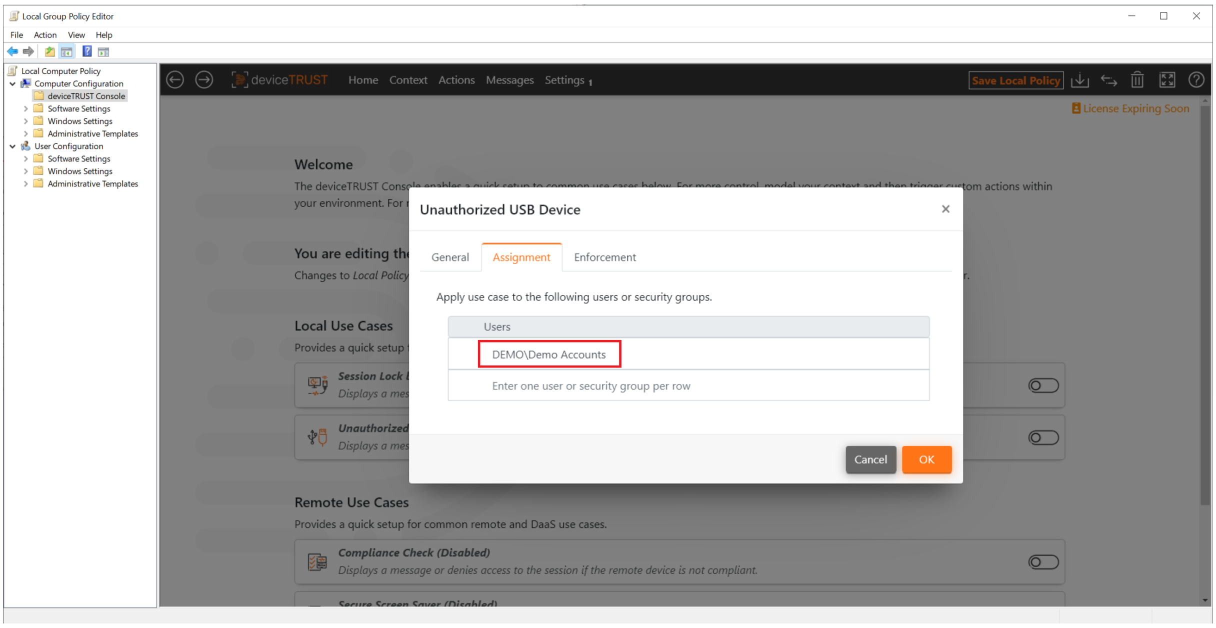
Unauthorized USB Device

Defines the list of authorized USB devices that can be plugged into the local device. Enter at least one of the fields to identify an authorized USB device.

Vendor Id	Product Id	Serial Number	Comment
0x0781	0x5567	Enter serial number	SanDisk Cruzer Blade Devices
Enter vendo	Enter produ	Enter serial number	Enter comment

□ Require USB drives on Windows local devices to be BitLocker encrypted

Click on the `ASSIGNMENT` configuration tab and add `USERS` and / or `SECURITY GROUPS` to apply the use case for.



Unauthorized USB Device

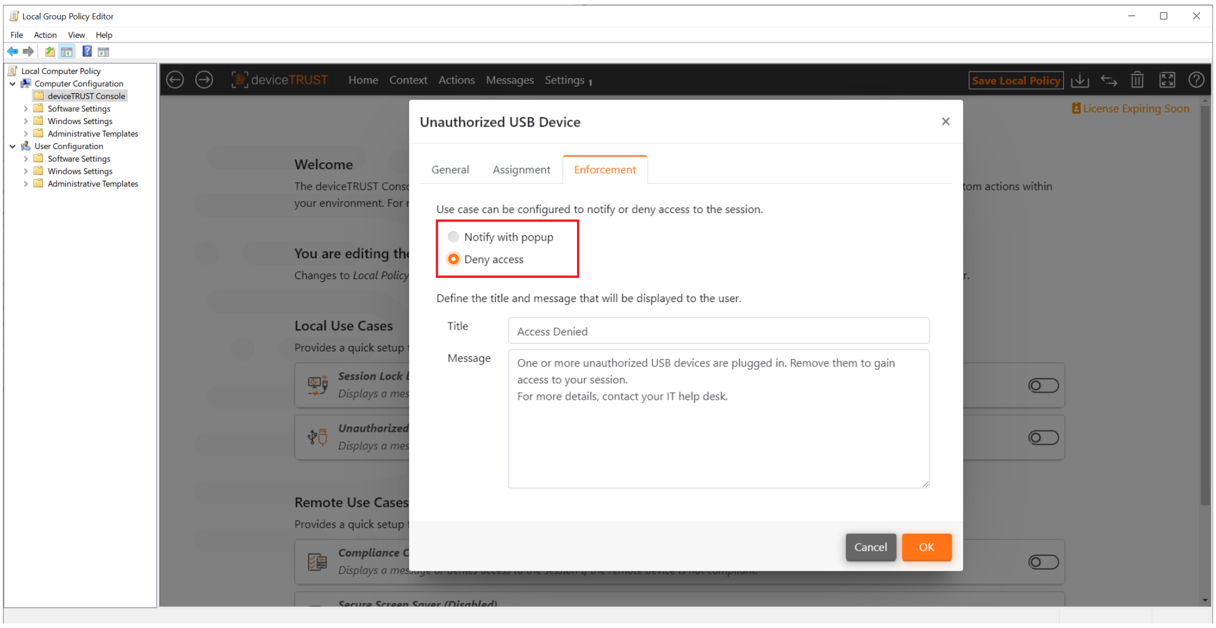
General | Assignment | Enforcement

Apply use case to the following users or security groups.

Users
DEMO\Demo Accounts
Enter one user or security group per row

Cancel OK

Click on the `ENFORCEMENT` configuration tab and select `DENY ACCESS`.



Unauthorized USB Device

General | Assignment | Enforcement

Use case can be configured to notify or deny access to the session.

○ Notify with popup

● Deny access

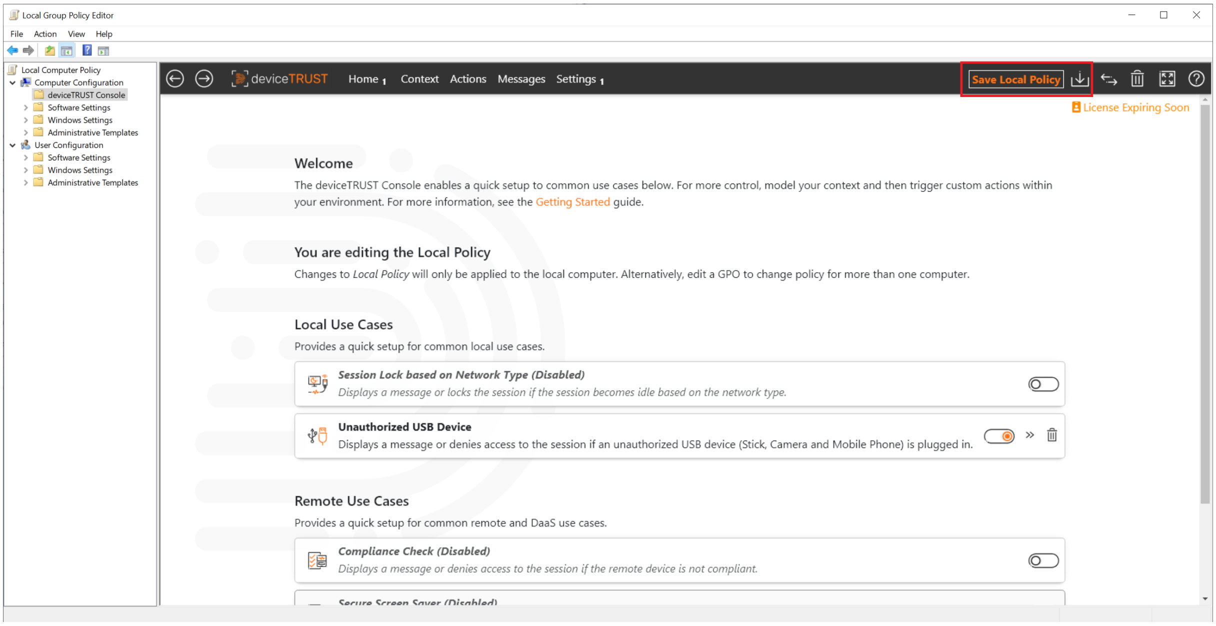
Define the title and message that will be displayed to the user.

Title: Access Denied

Message: One or more unauthorized USB devices are plugged in. Remove them to gain access to your session.
For more details, contact your IT help desk.

Cancel OK

Click on `SAVE TO LOCAL COMPUTER POLICY` in the top right toolbar to save the unauthorized USB device use case to the local computer policy.



Welcome

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You are editing the Local Policy

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Remote Use Cases

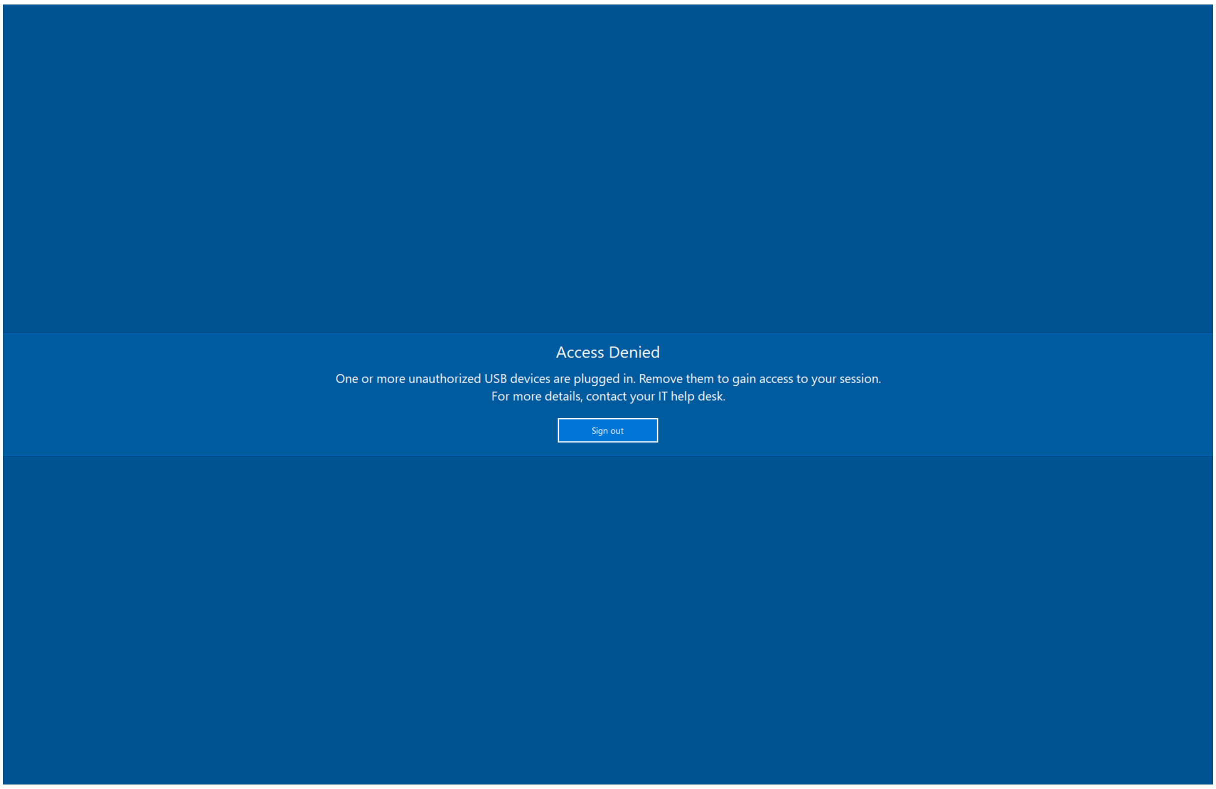
Provides a quick setup for common remote and DaaS use cases.

Compliance Check (Disabled)
Displays a message or denies access to the session if the remote device is not compliant.

Secure Screen Saver (Disabled)

Step 6: Test the Unauthorized USB Device use case

Sign in with a non-administrative user account to the local device and then plug in an authorized USB device at runtime. The authorized USB device is displayed in Windows Explorer and can be used. Now plug in an unauthorized USB device in addition or exclusively to see how deviceTRUST can easily and dynamically control access to the session depending on the USB device in use.

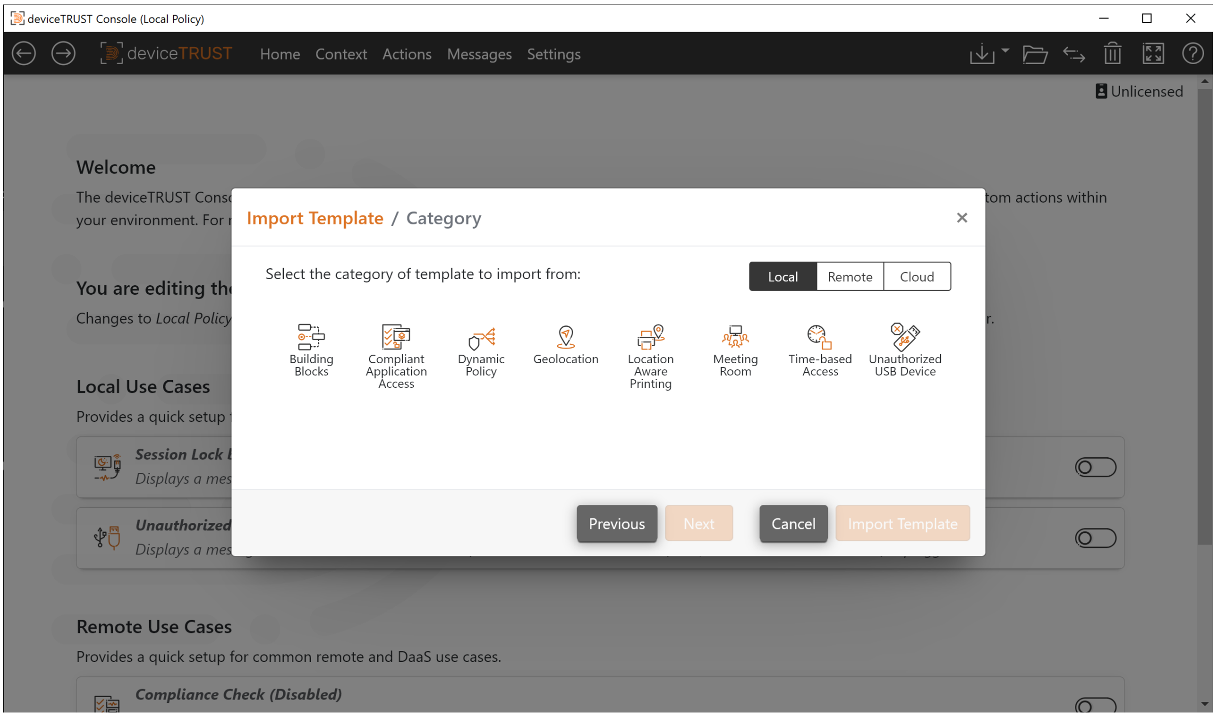


Access Denied

One or more unauthorized USB devices are plugged in. Remove them to gain access to your session.
For more details, contact your IT help desk.

Next steps

You have now successfully implemented your first use case with deviceTRUST for your local devices. Feel free to check out our additional use cases provided on the deviceTRUST Console homepage under LOCAL USE CASES. In addition, the deviceTRUST Console gives you access to many more configuration Templates for a wide variety of use cases.



Import Template / Category

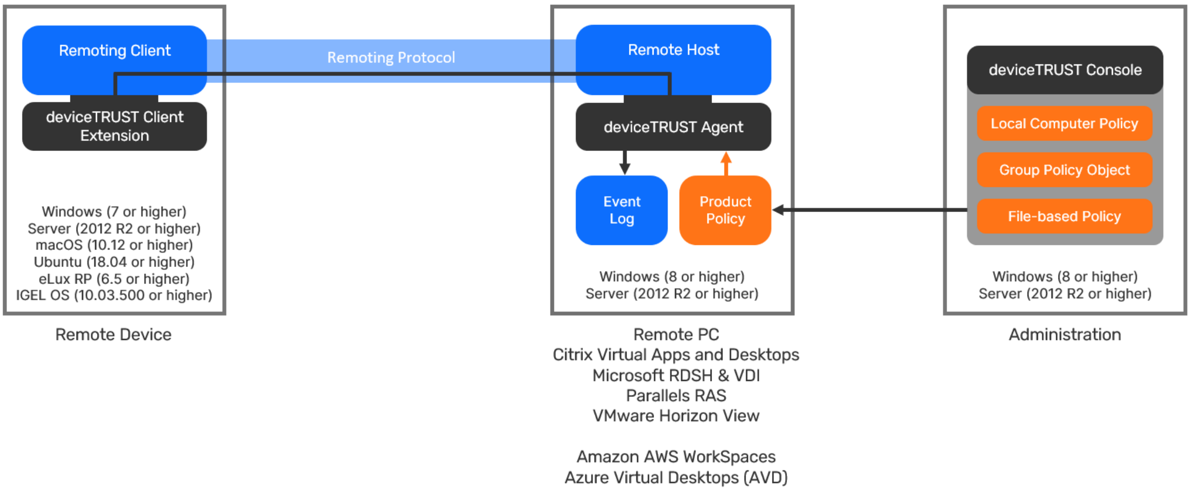
Select the category of template to import from:

Troubleshooting

If your deviceTRUST installation or configuration does not work as expected, you can use the Troubleshooting guide to start troubleshooting.

Getting Started for Remote

deviceTRUST® requires some simple but essential configuration steps to be performed to enable deviceTRUST functionality for your remote environments. We will guide you step-by-step through simple deviceTRUST installation and configuration steps to enable deviceTRUST with a compliance check use case within your remote environment.



We will perform the following steps:

- Step 1: Download the deviceTRUST setup binaries
- Step 2: Install the deviceTRUST Agent
- Step 3: Install the deviceTRUST Console
- Step 4: Enter your deviceTRUST License
- Step 5: Install the deviceTRUST Client Extension on a Microsoft Windows device
- Step 6: Enable the Compliance Check use case
- Step 7: Check that access is denied when the deviceTRUST Client Extension is not installed
- Step 8: Test the Compliance Check use case from a Microsoft Windows device

Step 1: Download the deviceTRUST setup binaries

The latest deviceTRUST software can be found on our Download page and your personalized license can be found within your product license certificate.

Step 2: Install the deviceTRUST Agent

Start the installation of the deviceTRUST Agent on your remoting or DaaS host system, which can be Amazon WorkSpaces, Citrix Virtual Apps and Desktops (CVAD), Microsoft Azure Virtual Desktop (AVD), Microsoft Remote Desktop Session Host (RDSH) or VMware Horizon View. Follow the steps in the section Installing the Agent to complete the installation.

Step 3: Install the deviceTRUST Console

To configure and to apply contextual security policies to the deviceTRUST Agent you need to use the deviceTRUST Console. The deviceTRUST Console supports various ways to provide the contextual security policies to the deviceTRUST Agent. Those options are using the Local Policy Editor, a Group Policy Object (GPO) or file-based.

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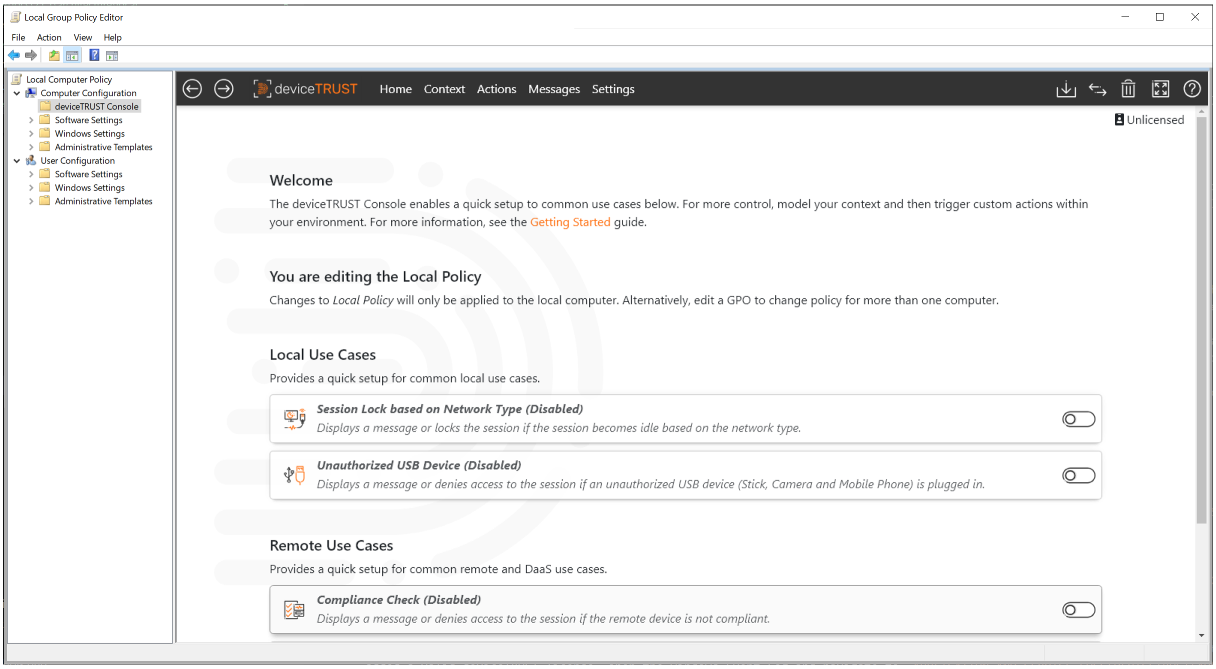

Welcome

The deviceTRUST Console enables a quick setup to common use cases below. For more control, model your context and then trigger custom actions within your environment. For more information, see the Getting Started guide.

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Step 4: Enter your deviceTRUST License

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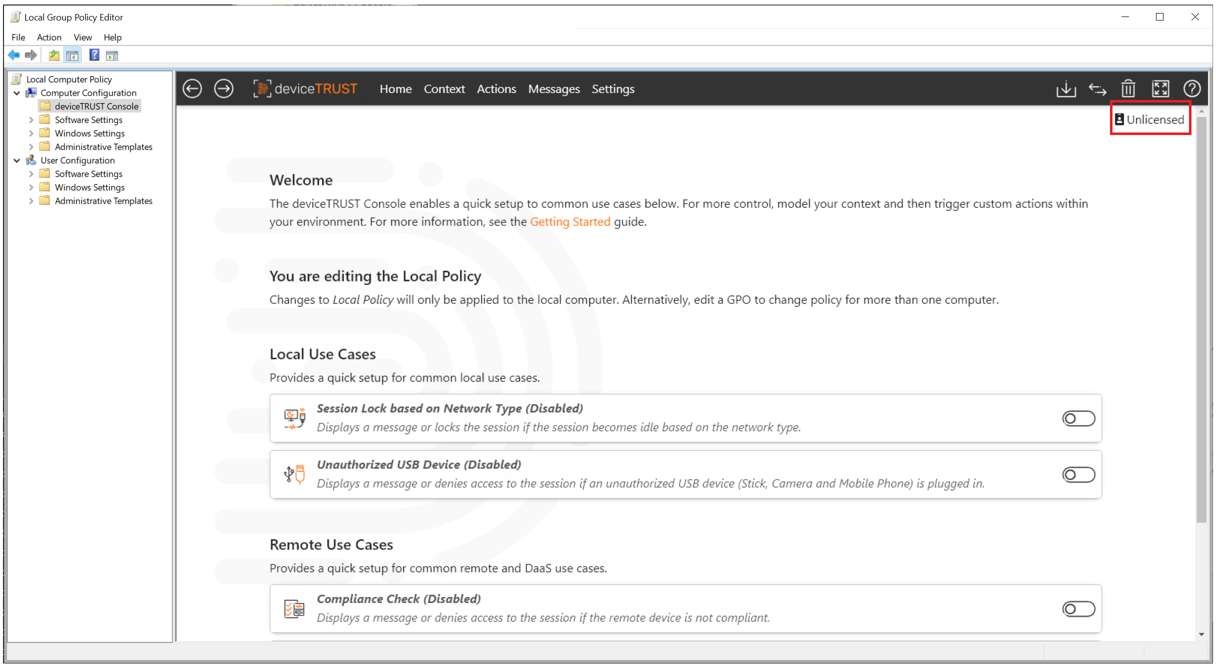

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Local Use Cases

Provides a quick setup for common local use cases.

Session Lock based on Network Type (Disabled)
Displays a message or locks the session if the session becomes idle based on the network type.

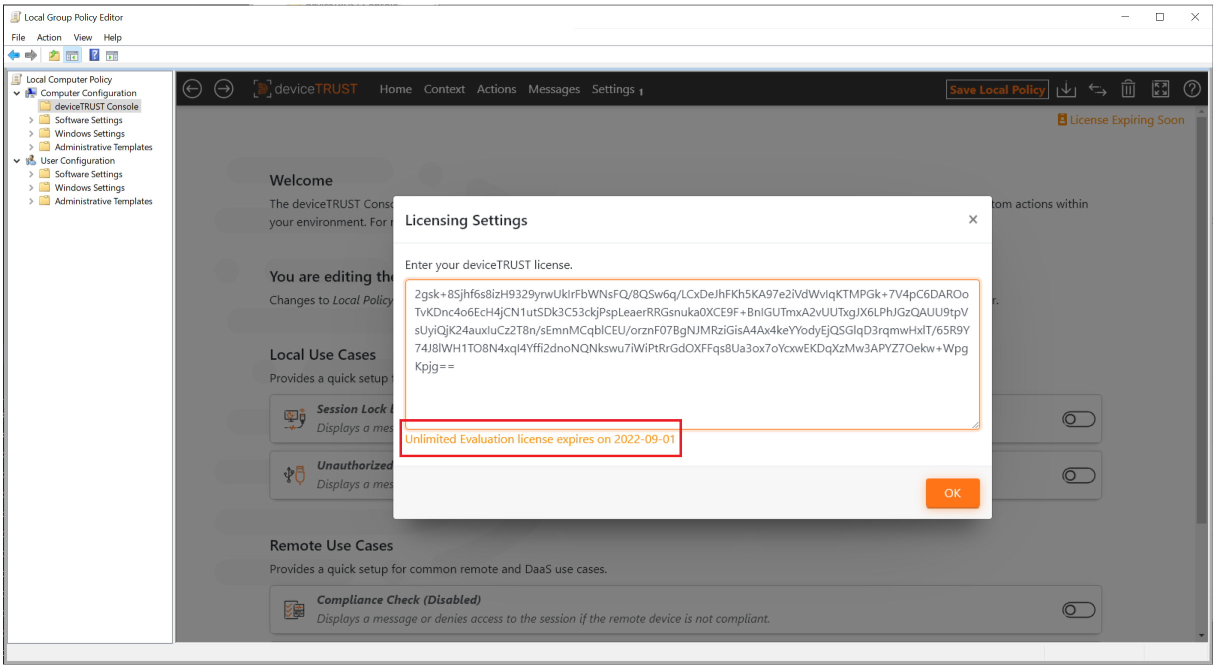
Unauthorized USB Device (Disabled)
Displays a message or denies access to the session if an unauthorized USB device (Stick, Camera and Mobile Phone) is plugged in.

Remote Use Cases

Provides a quick setup for common remote and DaaS use cases.

Compliance Check (Disabled)
Displays a message or denies access to the session if the remote device is not compliant.

Enter your deviceTRUST license and make sure it is valid. Close the license editor with `OK` and click on `SAVE TO LOCAL COMPUTER POLICY` in the top right toolbar.



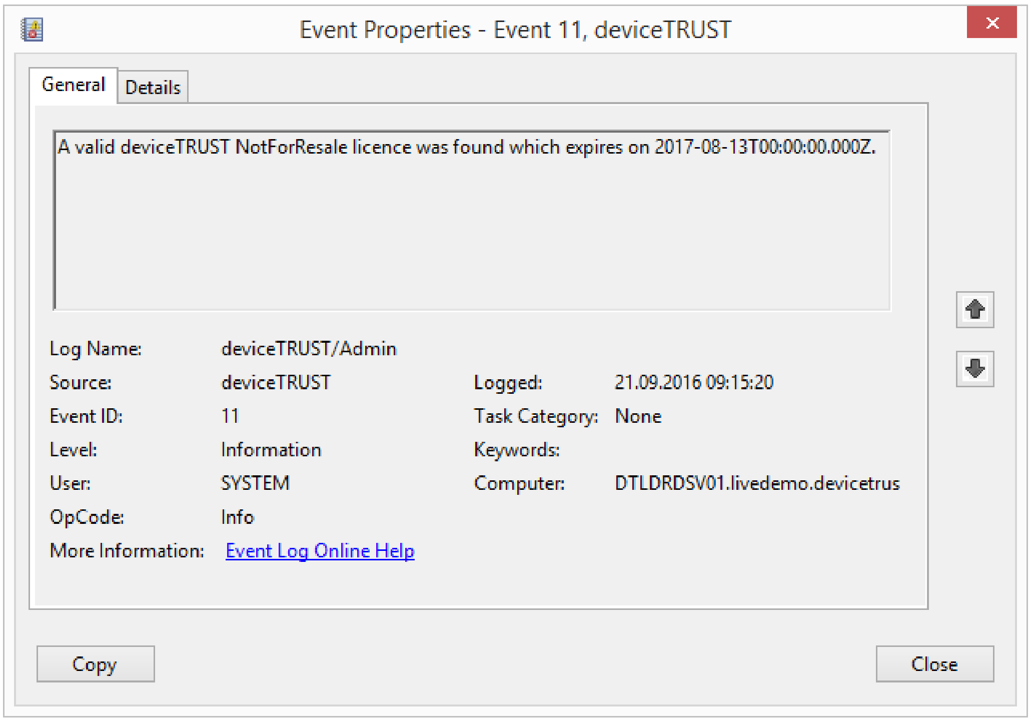
Licensing Settings

Enter your deviceTRUST license.

```
2gsk+8Sjhf6s8izH9329yrwUklrFbWNsFQ/8QSw6q/LCxDeJhFKh5KA97e2iVdWvlqKTMPGk+7V4pC6DAROo
TvKDnc4o6EcH4jCN1utSDk3C53ckjPspLeaerRRGsnuka0XCE9F+BnIGUTmxA2vUUTxgJX6LPhJGzQAUU9tpV
sUyiQjK24auxIuCz2T8n/sEmnMCqblCEU/orznF07BgNJMRziGisA4Ax4keYYodyEjQSGlqD3rqmwHxlT/65R9Y
74J8lWH1TO8N4xql4Yffi2dnoNQNkswu7iWiPtRrGdOXFFqs8Ua3ox7oYcxwEKDqXzMw3APYZ7Oekw+Wpg
Kpjg==
```

Unlimited Evaluation license expires on 2022-09-01

deviceTRUST is now enabled and will work for all users except local administrators connecting to that remoting or DaaS host system with deviceTRUST Agent installed. To check if you have added a valid deviceTRUST license, open the Windows Event Log and navigate to `APPLICATION AND SERVICE LOGS\DEVICETRUST\ADMIN` and check for the existence of event ID 11 which states that your deviceTRUST license is valid.



A valid deviceTRUST NotForResale licence was found which expires on 2017-08-13T00:00:00.000Z.

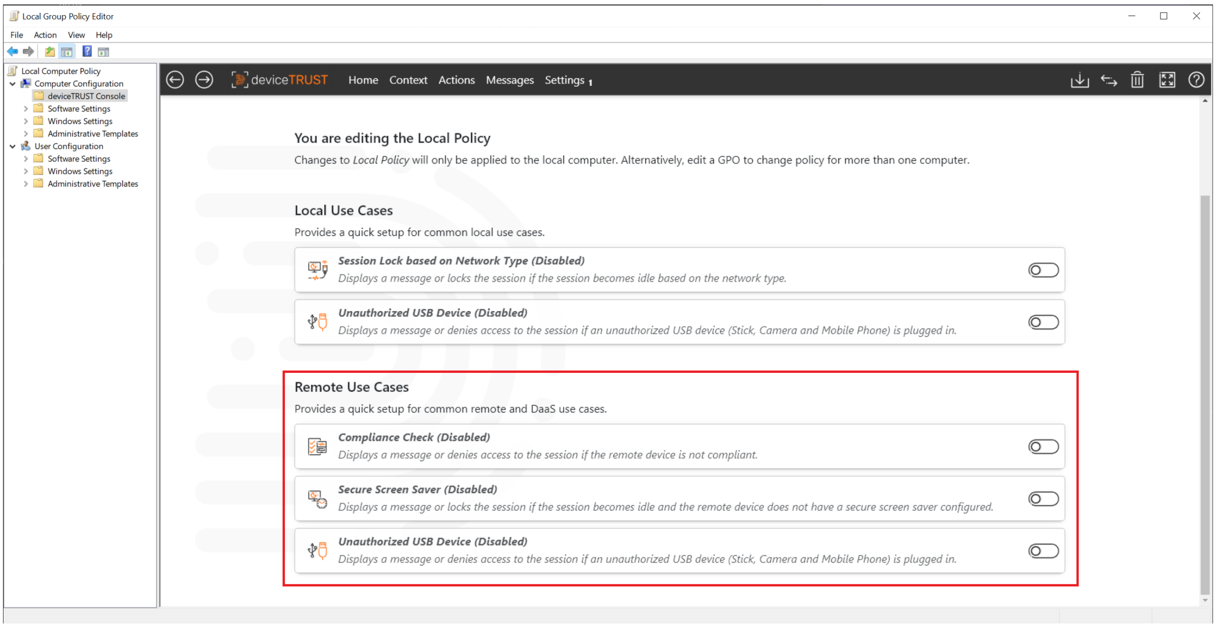
Log Name: deviceTRUST/Admin
Source: deviceTRUST
Logged: 21.09.2016 09:15:20
Event ID: 11
Task Category: None
Level: Information
Keywords:
User: SYSTEM
Computer: DTLDRDSV01.livedemo.devicetrus
OpCode: Info
More Information: Event Log Online Help

Step 5: Install the deviceTRUST Client Extension on a Microsoft Windows device

Within the Getting Started Guide, for simplicity, we will only install the deviceTRUST Client Extension on a Microsoft Windows device. Other device operating systems are also supported and an overview of how to install the deviceTRUST Client Extension on the particular operating system can be found on the Installation Client Extension page. Now follow the steps in the section Installing the Client Extension on Microsoft Windows device to complete the installation.

Step 6: Enable the Compliance Check use case

We will use the deviceTRUST Console to create a contextual security policy which controls access to the session depending upon the compliance state of the remote device. The deviceTRUST Console includes a set of use cases which can be used to quickly implement a use case. Launch the deviceTRUST Console and navigate to `REMOTE USE CASES` on the homepage.



You are editing the Local Policy

Changes to *Local Policy* will only be applied to the local computer. Alternatively, edit a GPO to change policy for more than one computer.

Local Use Cases

Provides a quick setup for common local use cases.

Session Lock based on Network Type (Disabled)
Displays a message or locks the session if the session becomes idle based on the network type.

Unauthorized USB Device (Disabled)
Displays a message or denies access to the session if an unauthorized USB device (Stick, Camera and Mobile Phone) is plugged in.

Remote Use Cases

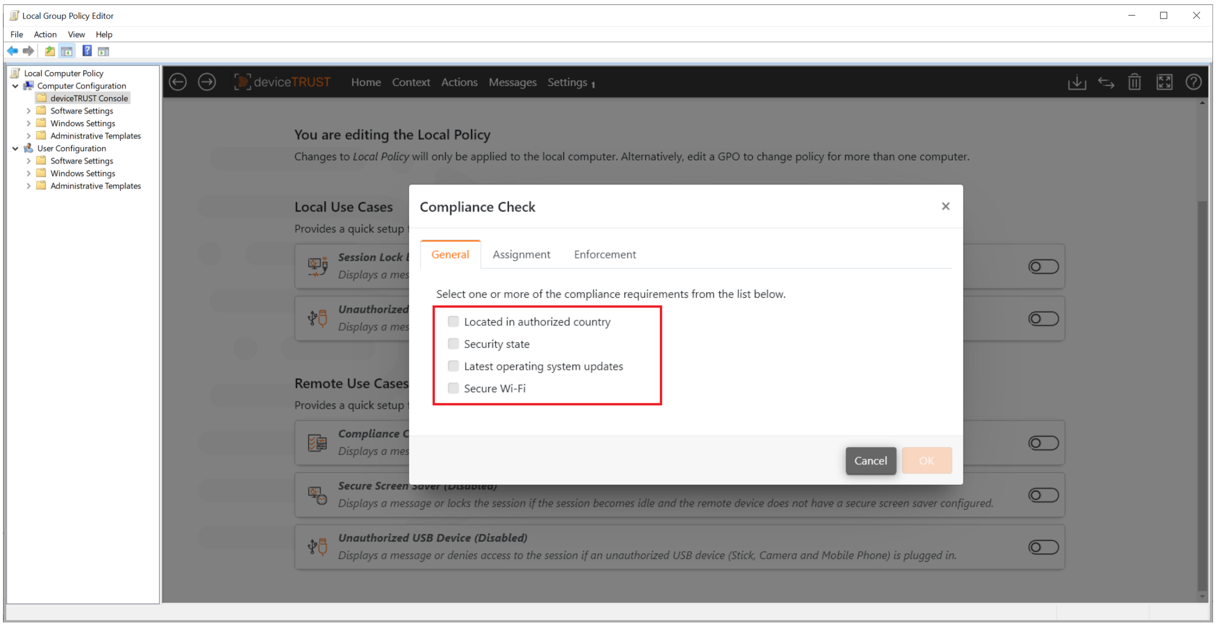
Provides a quick setup for common remote and DaaS use cases.

Compliance Check (Disabled)
Displays a message or denies access to the session if the remote device is not compliant.

Secure Screen Saver (Disabled)
Displays a message or locks the session if the session becomes idle and the remote device does not have a secure screen saver configured.

Unauthorized USB Device (Disabled)
Displays a message or denies access to the session if an unauthorized USB device (Stick, Camera and Mobile Phone) is plugged in.

Select the `COMPLIANCE CHECK` use case, select on the `GENERAL` tab all options to be included in the compliance check.

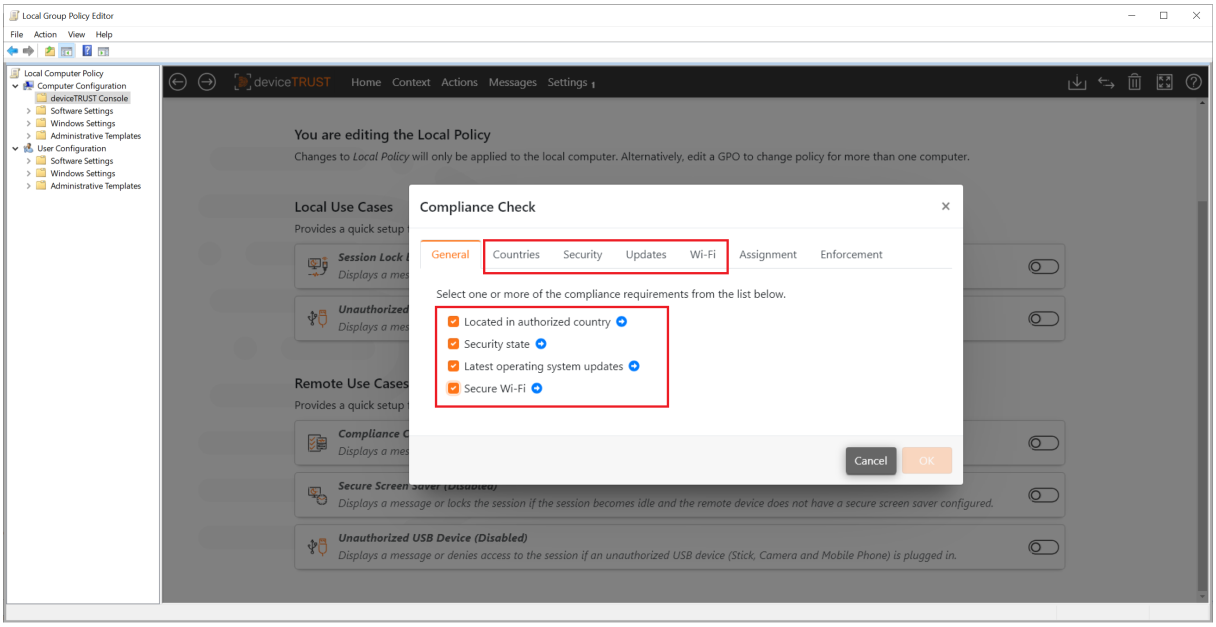


Compliance Check

Select one or more of the compliance requirements from the list below.

- □ Located in authorized country
- □ Security state
- □ Latest operating system updates
- □ Secure Wi-Fi

New configuration tabs will become visible.



You are editing the Local Policy

Changes to *Local Policy* will only be applied to the local computer. Alternatively, edit a GPO to change policy for more than one computer.

Compliance Check

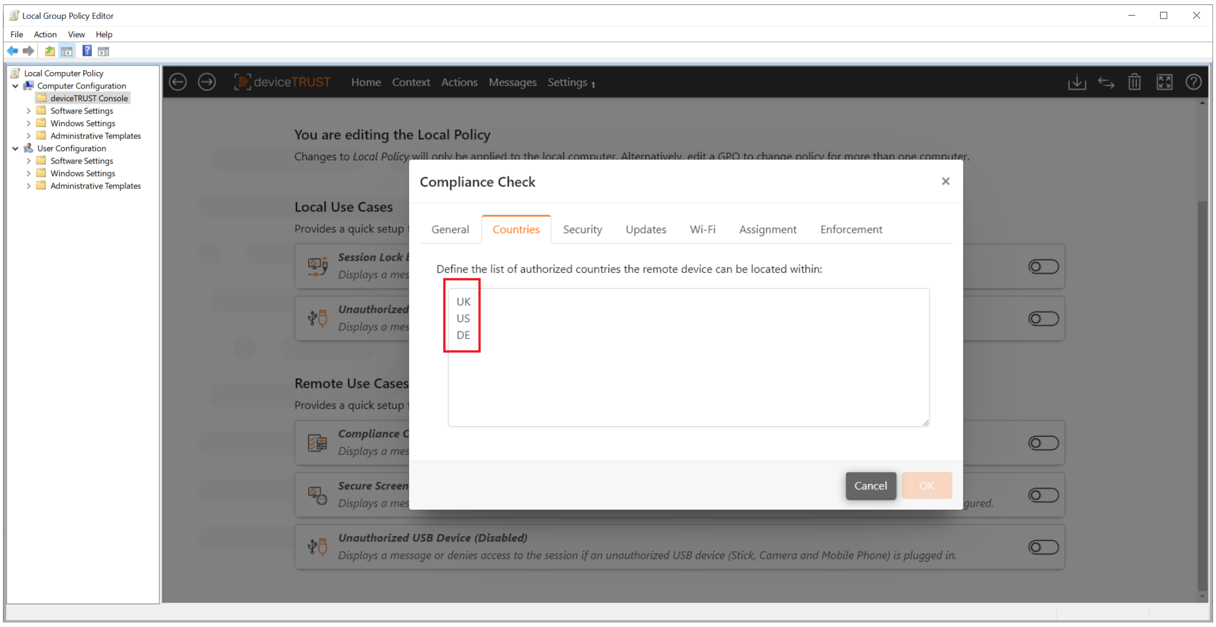
Select one or more of the compliance requirements from the list below.

- ☑ Located in authorized country
- ☑ Security state
- ☑ Latest operating system updates
- ☑ Secure Wi-Fi

Displays a message or locks the session if the session becomes idle and the remote device does not have a secure screen saver configured.

Displays a message or denies access to the session if an unauthorized USB device (Stick, Camera and Mobile Phone) is plugged in.

Click on the COUNTRY configuration tab and add all authorized countries using ISO 3166-1 Alpha-2 code.



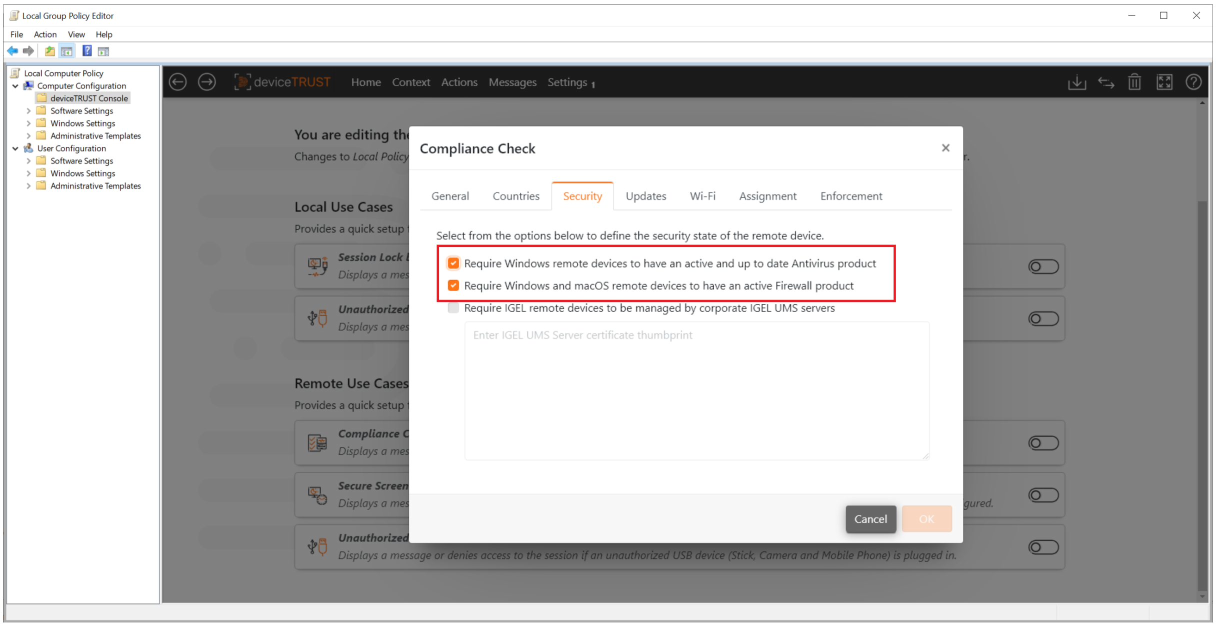
Compliance Check

Define the list of authorized countries the remote device can be located within:

```
UK
US
DE
```

Displays a message or denies access to the session if an unauthorized USB device (Stick, Camera and Mobile Phone) is plugged in.

Click on the SECURITY configuration tab and enable the REQUIRE WINDOWS REMOTE DEVICES TO HAVE AN ACTIVE AND UP TO DATE ANTIVIRUS PRODUCT and REQUIRE WINDOWS AND MACOS REMOTE DEVICES TO HAVE AN ACTIVE FIREWALL PRODUCT options.



Compliance Check

Select from the options below to define the security state of the remote device.

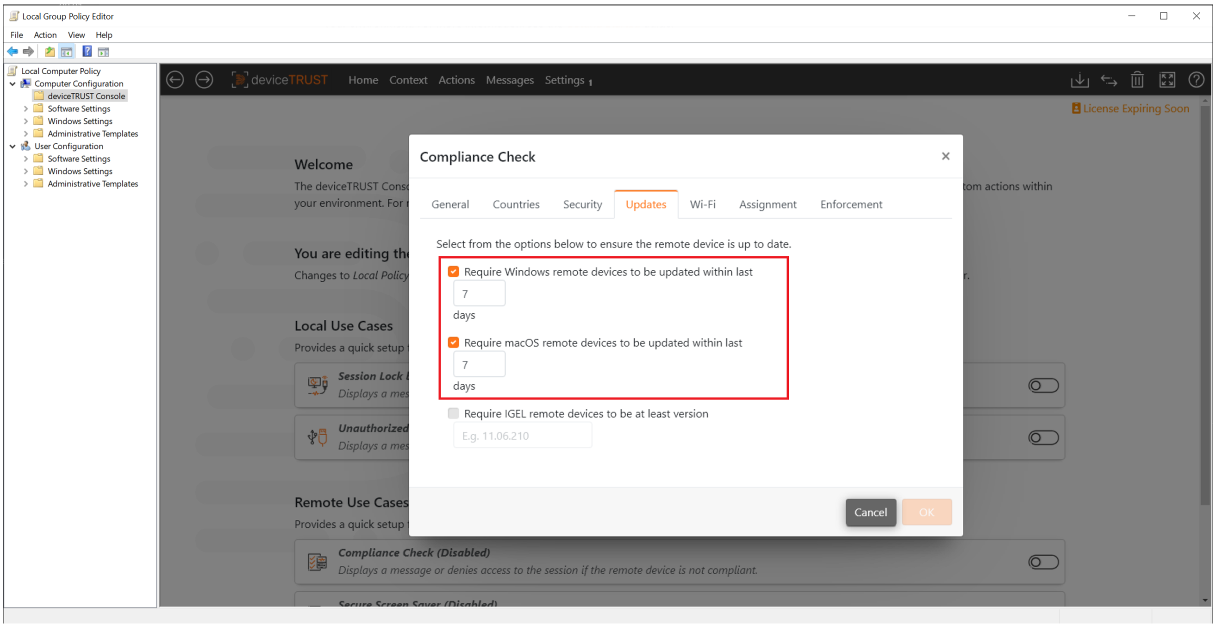
☑ Require Windows remote devices to have an active and up to date Antivirus product

☑ Require Windows and macOS remote devices to have an active Firewall product

□ Require IGEL remote devices to be managed by corporate IGEL UMS servers

Enter IGEL UMS Server certificate thumbprint

Click on the UPDATES configuration tab and enable the REQUIRE WINDOWS REMOTE DEVICES TO BE UPDATED WITHIN THE LAST 7 DAYS and REQUIRE MACOS REMOTE DEVICES TO BE UPDATED WITHIN THE LAST 7 DAYS options.



Compliance Check

Select from the options below to ensure the remote device is up to date.

☑ Require Windows remote devices to be updated within last

7

days

☑ Require macOS remote devices to be updated within last

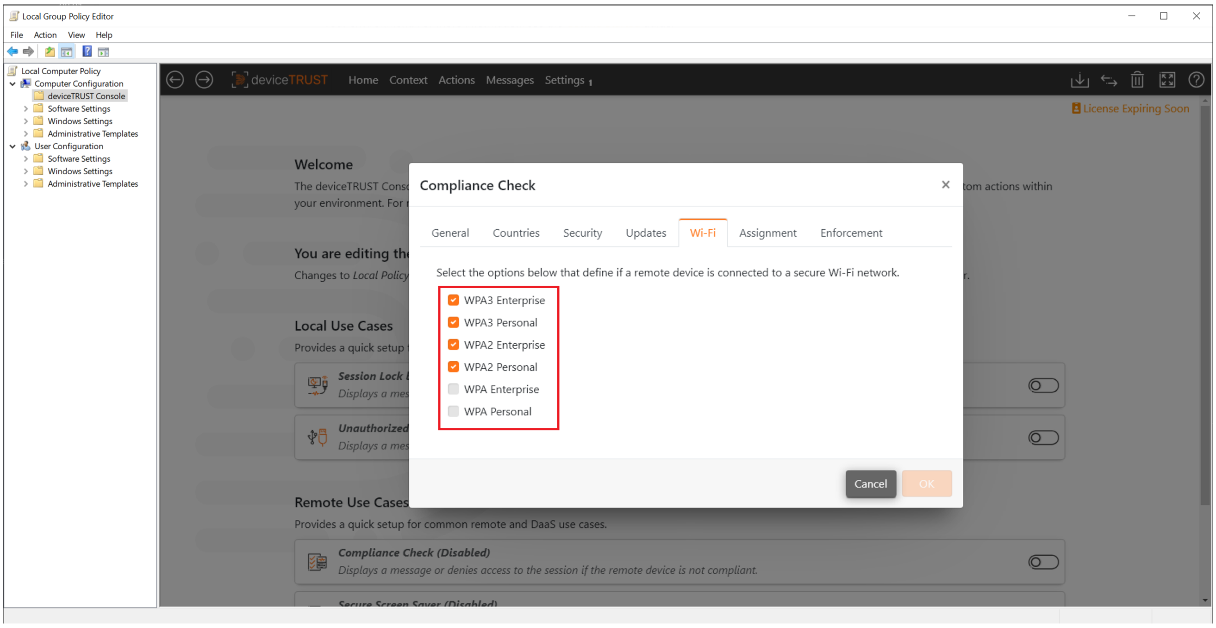
7

days

□ Require IGEL remote devices to be at least version

E.g. 11.06.210

Click on the WI-FI configuration tab and enable the WPA3 ENTERPRISE, WPA3 PERSONAL, WPA2 ENTERPRISE and WPA2 PERSONAL options.



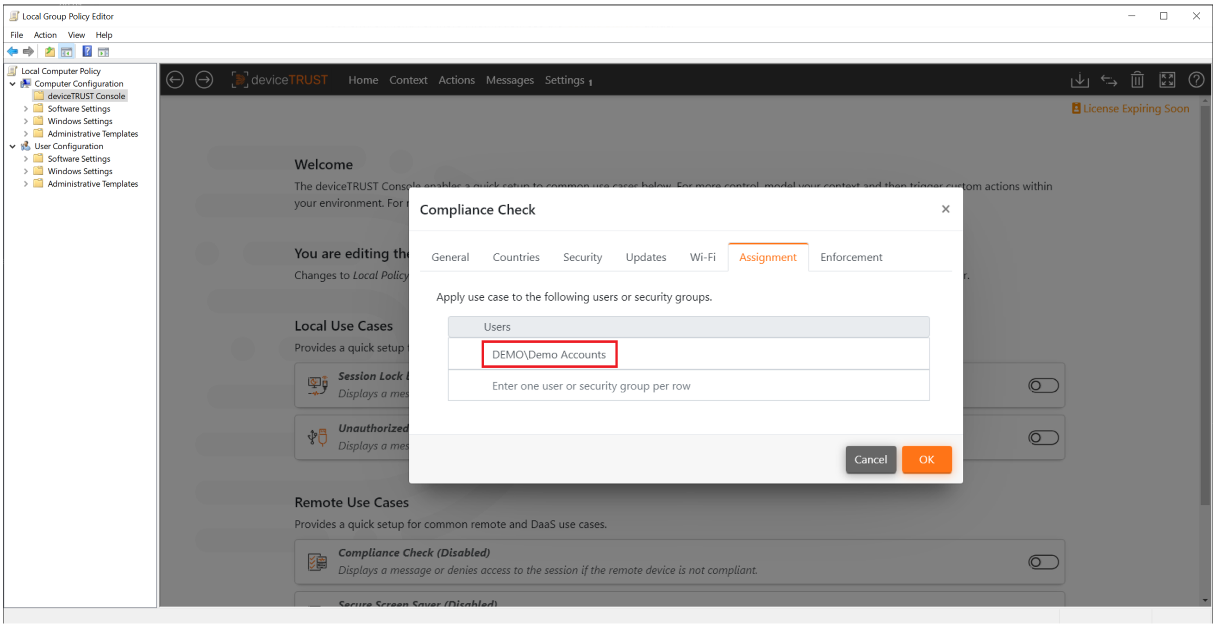
Compliance Check

General | Countries | Security | Updates | Wi-Fi | Assignment | Enforcement

Select the options below that define if a remote device is connected to a secure Wi-Fi network.

- ☑ WPA3 Enterprise
- ☑ WPA3 Personal
- ☑ WPA2 Enterprise
- ☑ WPA2 Personal
- ☐ WPA Enterprise
- ☐ WPA Personal

Click on the ASSIGNMENT configuration tab and add USERS and / or SECURITY GROUPS to apply the use case for.



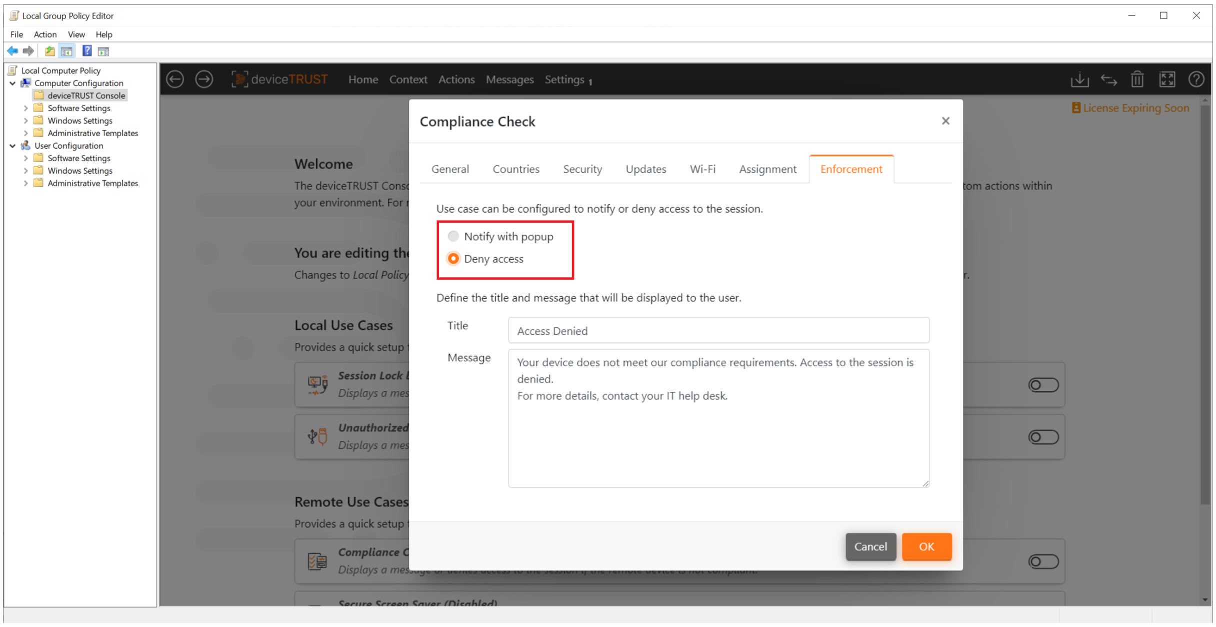
Compliance Check

General | Countries | Security | Updates | Wi-Fi | Assignment | Enforcement

Apply use case to the following users or security groups.

Users
DEMO\Demo Accounts
Enter one user or security group per row

Click on the ENFORCEMENT configuration tab and select DENY ACCESS.



Local Group Policy Editor

File Action View Help

- Local Computer Policy
  - Computer Configuration
    - deviceTRUST Console
    - Software Settings
    - Windows Settings
    - Administrative Templates
  - User Configuration
    - Software Settings
    - Windows Settings
    - Administrative Templates

deviceTRUST Home Context Actions Messages Settings

License Expiring Soon

Compliance Check

General | Countries | Security | Updates | Wi-Fi | Assignment | Enforcement

Use case can be configured to notify or deny access to the session.

○ Notify with popup
● Deny access

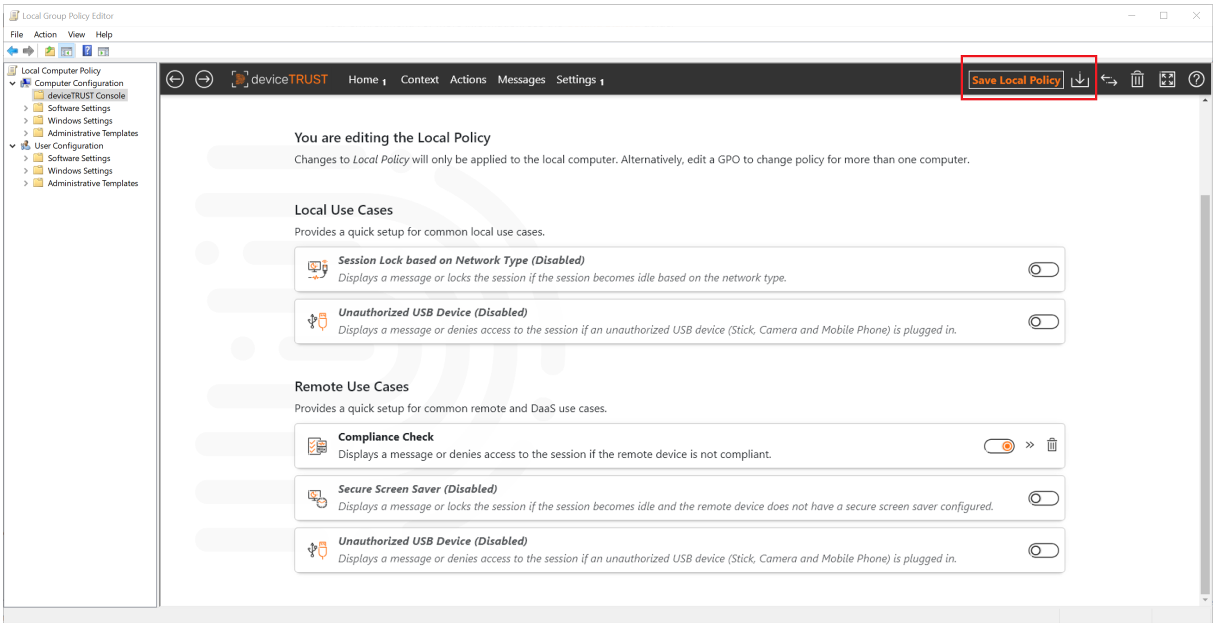
Define the title and message that will be displayed to the user.

Title: Access Denied

Message: Your device does not meet our compliance requirements. Access to the session is denied.
For more details, contact your IT help desk.

Cancel | OK

Click on `SAVE TO LOCAL COMPUTER POLICY` in the top right toolbar to save the complianc check use case to the local computer policy.



Local Group Policy Editor

File Action View Help

- Local Computer Policy
  - Computer Configuration
    - deviceTRUST Console
    - Software Settings
    - Windows Settings
    - Administrative Templates
  - User Configuration
    - Software Settings
    - Windows Settings
    - Administrative Templates

deviceTRUST Home Context Actions Messages Settings | Save Local Policy

You are editing the Local Policy

Changes to *Local Policy* will only be applied to the local computer. Alternatively, edit a GPO to change policy for more than one computer.

Local Use Cases

Provides a quick setup for common local use cases.

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Remote Use Cases

Provides a quick setup for common remote and DaaS use cases.

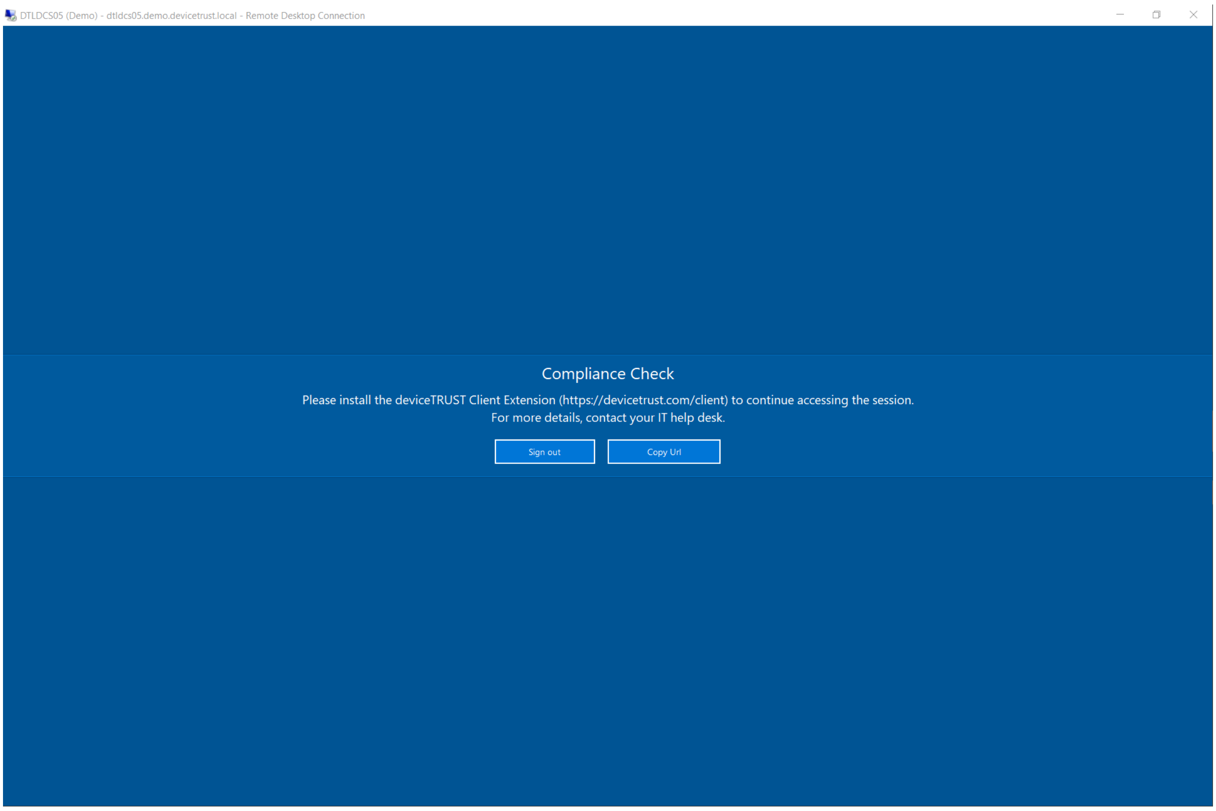
Compliance Check
Displays a message or denies access to the session if the remote device is not compliant.

Secure Screen Saver (Disabled)
Displays a message or locks the session if the session becomes idle and the remote device does not have a secure screen saver configured.

Unauthorized USB Device (Disabled)
Displays a message or denies access to the session if an unauthorized USB device (Stick, Camera and Mobile Phone) is plugged in.

Step 7: Check that access is denied when the deviceTRUST Client Extension is not installed

From a device without the deviceTRUST Client Extension installed, connect to your remoting or DaaS host system. Because the remote device does not have an active deviceTRUST Client Extension, the access will be denied with the following message:



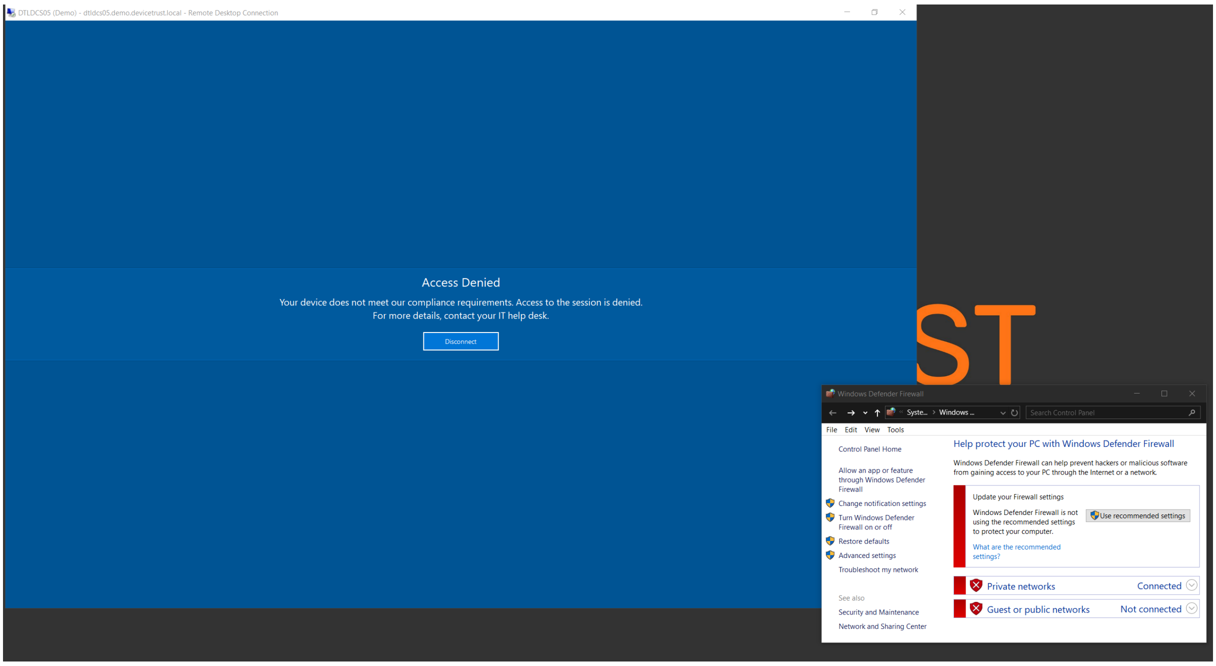
DTLDCS05 (Demo) - dtldcs05.demo.devicetrust.local - Remote Desktop Connection

Compliance Check

Please install the deviceTRUST Client Extension (https://devicetrust.com/client) to continue accessing the session.
For more details, contact your IT help desk.

Step 8: Test the Compliance Check use case from a Microsoft Windows device

From a Microsoft Windows device with the deviceTRUST Client Extension installed, connect to your remoting or DaaS host system. Toggle the state of the Windows Defender Firewall to see how deviceTRUST can simply and dynamically control access to the session depending on the firewall state of the remote device.



Access Denied

Your device does not meet our compliance requirements. Access to the session is denied.
For more details, contact your IT help desk.

DTLDCS05 (Demo) - dtldcs05.demo.devicetrust.local - Remote Desktop Connection
Disconnect
Windows Defender Firewall
Syste... > Windows ...
Search Control Panel
File
Edit
View
Tools
Control Panel Home
Allow an app or feature through Windows Defender Firewall
Change notification settings
Turn Windows Defender Firewall on or off
Restore defaults
Advanced settings
Troubleshoot my network
See also
Security and Maintenance
Network and Sharing Center

Help protect your PC with Windows Defender Firewall

Windows Defender Firewall can help prevent hackers or malicious software from gaining access to your PC through the Internet or a network.

Update your Firewall settings

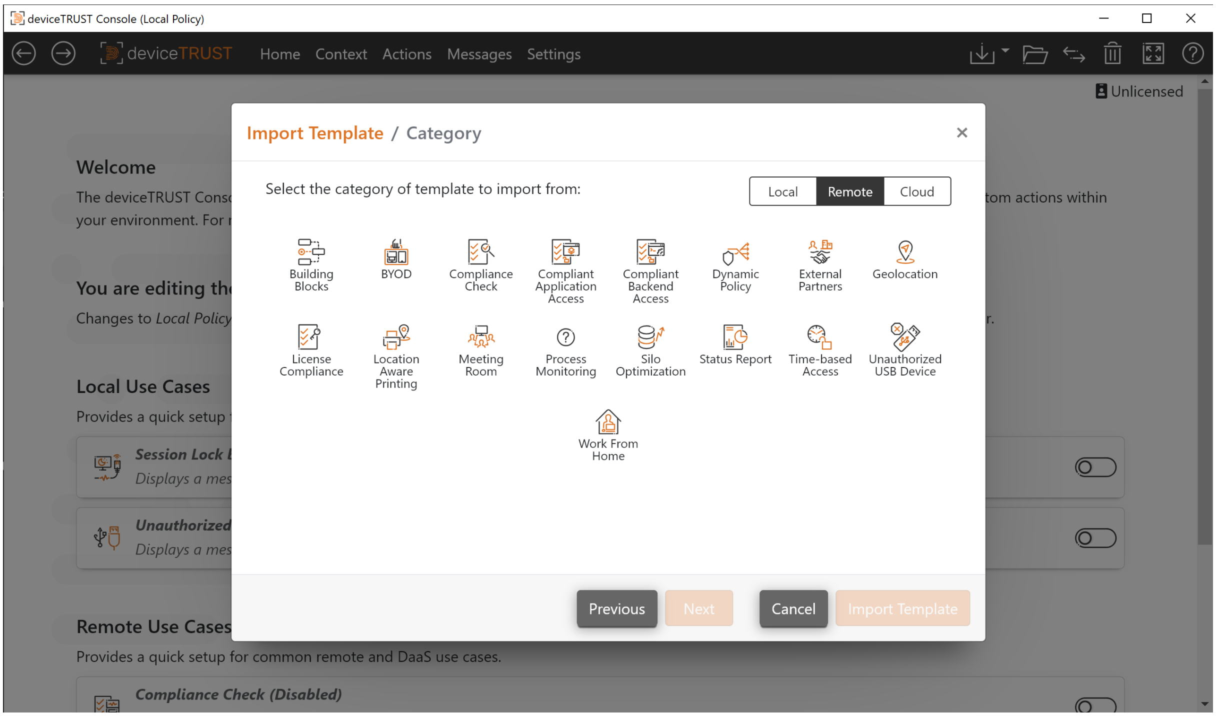
Windows Defender Firewall is not using the recommended settings to protect your computer.

Private networks: Connected

Guest or public networks: Not connected

Next steps

You have now successfully implemented your first use case with deviceTRUST for your remoting and DaaS environment. Feel free to check out our additional use cases provided on the deviceTRUST Console homepage under `REMOTE USE CASES`. In addition, the deviceTRUST Console gives you access to many more configuration Templates for a wide variety of use cases.



Welcome

The deviceTRUST Cons... your environment. For r... ...tom actions within

You are editing the...

Changes to *Local Policy*... ...r.

Local Use Cases

Provides a quick setup ...

Session Lock ... Displays a mes...

Unauthorized... Displays a mes...

Remote Use Cases

Provides a quick setup for common remote and DaaS use cases.

Compliance Check (Disabled)

Import Template / Category

Select the category of template to import from:

Troubleshooting

If your deviceTRUST installation or configuration does not work as expected, you can use the Troubleshooting guide to start troubleshooting.

Download deviceTRUST® Client Extensions

The latest client extensions for Windows, macOS and Ubuntu can be download by end users from the deviceTRUST Client Extension Download page.

Download deviceTRUST 21.1

The latest deviceTRUST 21.1 binaries can be downloaded from the link below:

Version	21.1.310
Release Date	18th October 2022
Link	https://storage.devicetrust.com/download/deviceTRUST-21.1.310.zip
SHA256 Hash	5F7352EE9038C544AC7F5B04000A3DE7569ABB070FAA8F774E

Download previous releases

Previous releases can be downloaded download.

Software components

After downloading the deviceTRUST software, you will find the following components within the compressed ZIP file:

Component	Description
DTAGENT-X64-RELEASE-x.x.x.x.MSI	The deviceTRUST 64-bit Agent installer.
DTAGENT-X86-RELEASE-x.x.x.x.MSI	The deviceTRUST 32-bit Agent installer.
DTCLIENT-EXTENSION-RELEASE-x.x.x.x.EXE	The deviceTRUST 32-bit and 64-bit Client Extension installer.
DTCONSOLE-X64-RELEASE-x.x.x.x.MSI	The deviceTRUST 64-bit Console installer.

Component	Description
DTCONSOLE-X86-RELEASE-x.x.x.x.MSI	The deviceTRUST 32-bit Console installer.
DTPOLICYDEFINITIONS-x.x.x.x.ZIP	The deviceTRUST ADMX policy definitions for configuring legacy options in the software from Microsoft Active Directory Group Policy (GPO).

> **Note**
>
> ```
> deviceTRUST Agent, Console and Client Extension components require administrative privileges for the installation.
> ```

Installation

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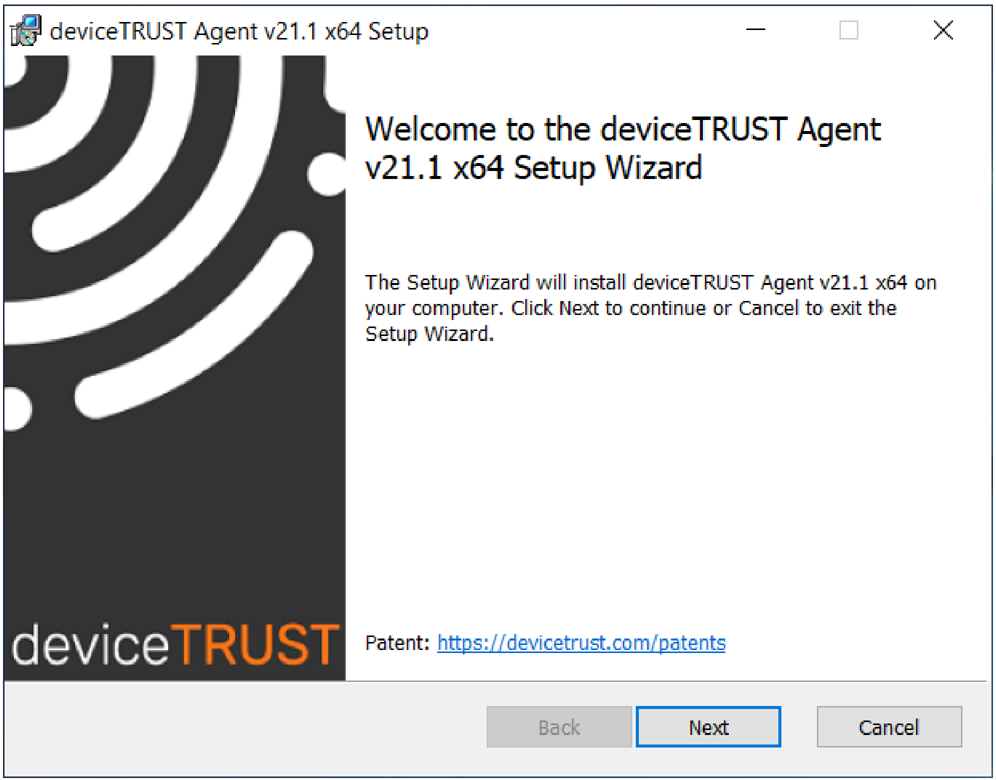
Installing the deviceTRUST® Agent

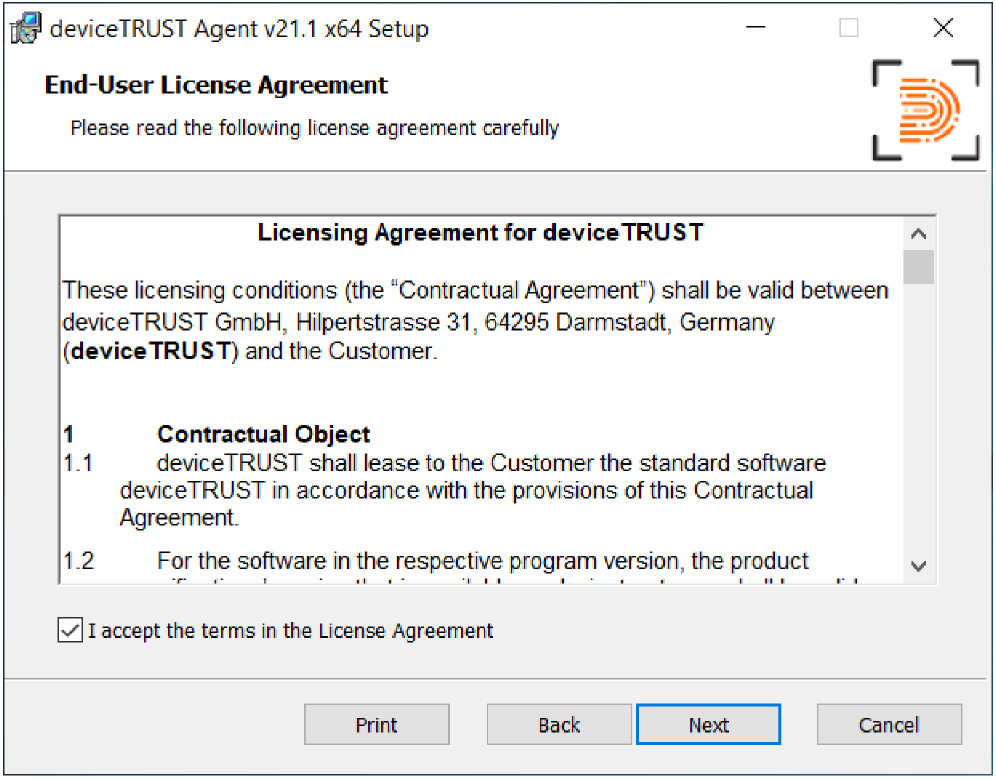
The deviceTRUST Agent requires a user account with local administrative privileges to install the deviceTRUST Agent on the target system. The installation can be performed by following the steps of the deviceTRUST Agent installer.



Welcome to the deviceTRUST Agent v21.1 x64 Setup Wizard

The Setup Wizard will install deviceTRUST Agent v21.1 x64 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.

Patent: https://devicetrust.com/patents



End-User License Agreement

Please read the following license agreement carefully

Licensing Agreement for deviceTRUST

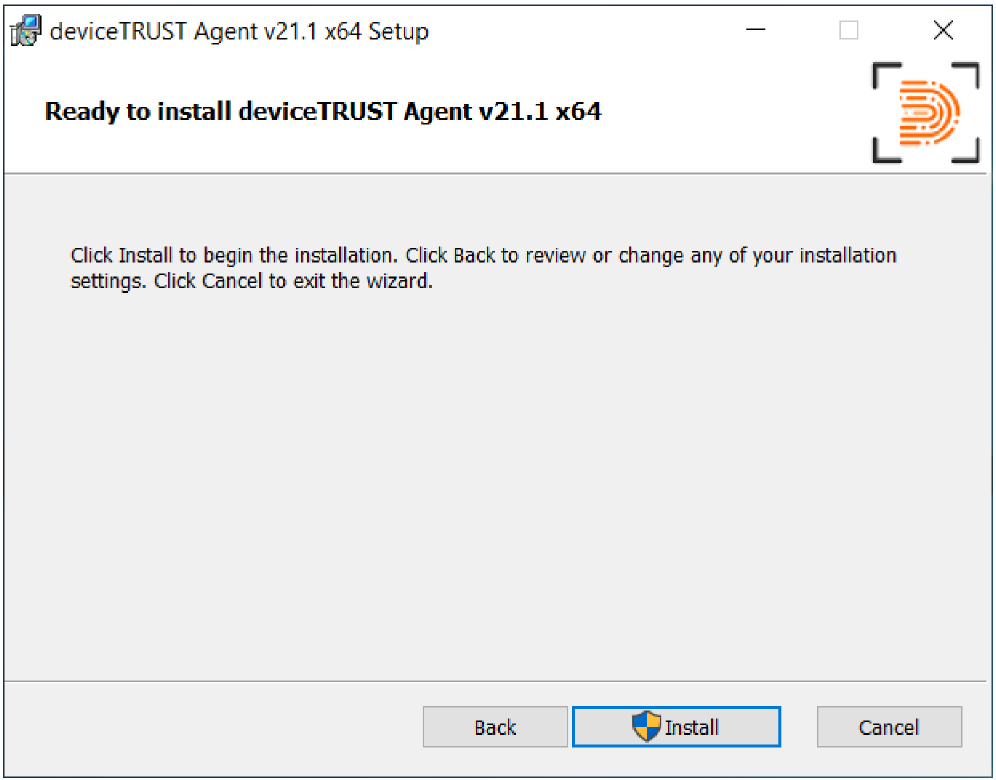
These licensing conditions (the "Contractual Agreement") shall be valid between deviceTRUST GmbH, Hilpertstrasse 31, 64295 Darmstadt, Germany (**deviceTRUST**) and the Customer.

1 Contractual Object

1.1 deviceTRUST shall lease to the Customer the standard software deviceTRUST in accordance with the provisions of this Contractual Agreement.

1.2 For the software in the respective program version, the product

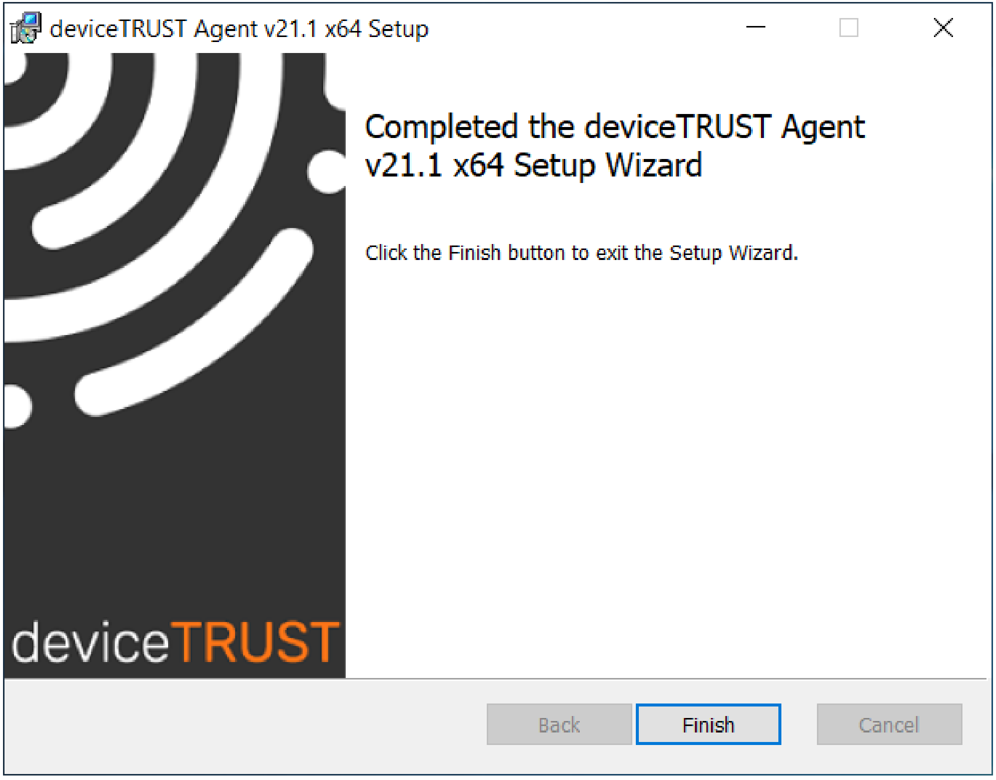
☑ I accept the terms in the License Agreement



deviceTRUST Agent v21.1 x64 Setup

Ready to install deviceTRUST Agent v21.1 x64

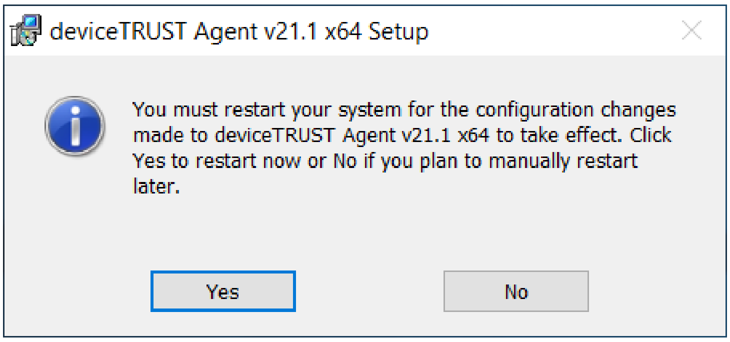
Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.



deviceTRUST Agent v21.1 x64 Setup

Completed the deviceTRUST Agent v21.1 x64 Setup Wizard

Click the Finish button to exit the Setup Wizard.



deviceTRUST Agent v21.1 x64 Setup

You must restart your system for the configuration changes made to deviceTRUST Agent v21.1 x64 to take effect. Click Yes to restart now or No if you plan to manually restart later.

> **Note:**
>
> - Installation path: `%PROGRAMFILES%\DEVICETRUST\AGENT`
> - If the installation of the deviceTRUST Agent has finished successfully, a reboot is required to enable deviceTRUST to get system notifications to act on.
> - If the `*Remote Desktop Services*` server role is added after installing the deviceTRUST Agent, the deviceTRUST Agent will need to be reinstalled.
> - The deviceTRUST Agent will not function until a valid license is applied.

Citrix Virtual Channel Security

When using Citrix Virtual Apps and Desktops, you may need to edit the `Virtual channel allow list` policy to allow the deviceTRUST Agent to open a virtual channel to the deviceTRUST Client. More details can be found on the Knowledge Base.

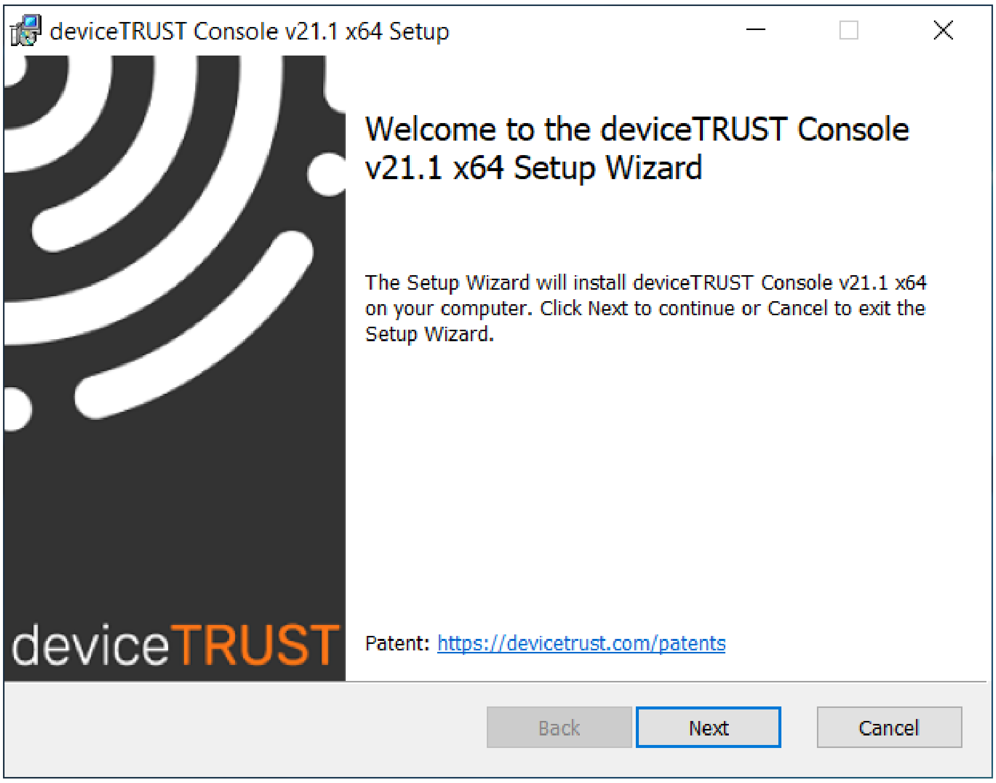
Unattended Installation

The deviceTRUST Agent can be installed unattended from the command line interface with the following options:

Component	Commandline
dtagent-x64-release-x.x.x.x.msi	The deviceTRUST 64-bit Agent installer file can be customized by common Microsoft Windows Installer parameters. An unattended installation can be achieved with the following parameters `MSIEXEC.EXE /I DTAGENT-X64-RELEASE-X.X.X.X.MSI /PASSIVE /FORCERESTART`
dtagent-x86-release-x.x.x.x.msi	The deviceTRUST 32-bit Agent installer file can be customized by common Microsoft Windows Installer parameters. An unattended installation can be achieved with the following parameters `MSIEXEC.EXE /I DTAGENT-X86-RELEASE-X.X.X.X.MSI /PASSIVE /FORCERESTART`

Installing the deviceTRUST® Console

The deviceTRUST Console requires a user account with local administrative privileges to install the deviceTRUST Console on the targeting system. The installation can be performed by following the steps of the deviceTRUST Console installer.

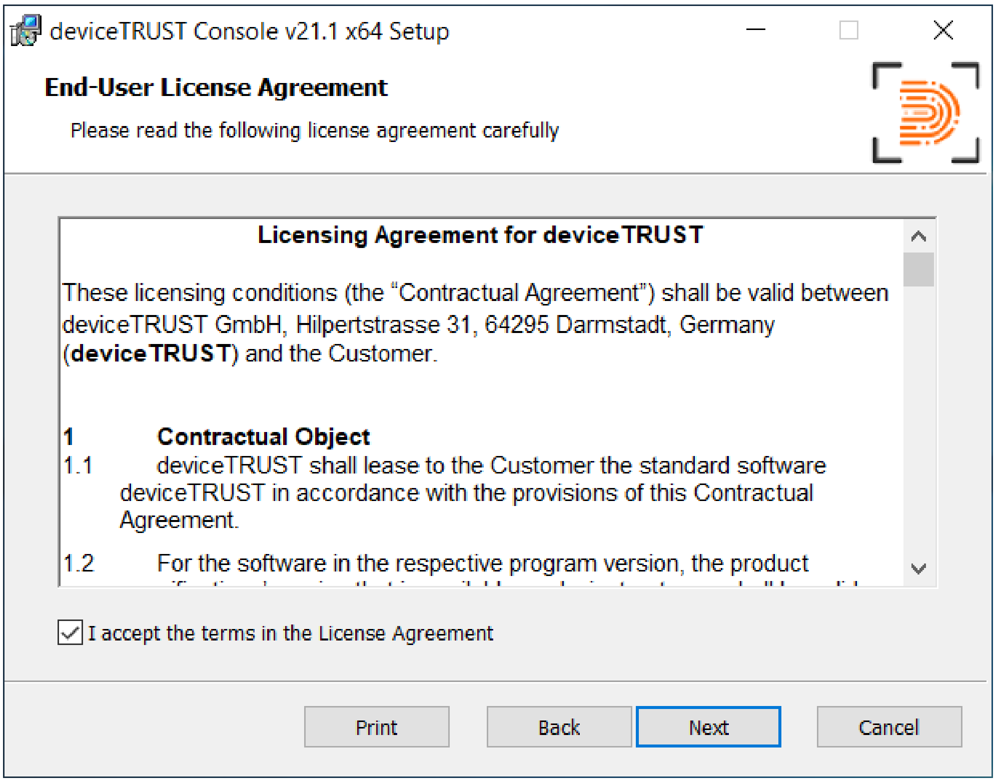


deviceTRUST Console v21.1 x64 Setup

Welcome to the deviceTRUST Console v21.1 x64 Setup Wizard

The Setup Wizard will install deviceTRUST Console v21.1 x64 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.

Patent: https://devicetrust.com/patents



deviceTRUST Console v21.1 x64 Setup

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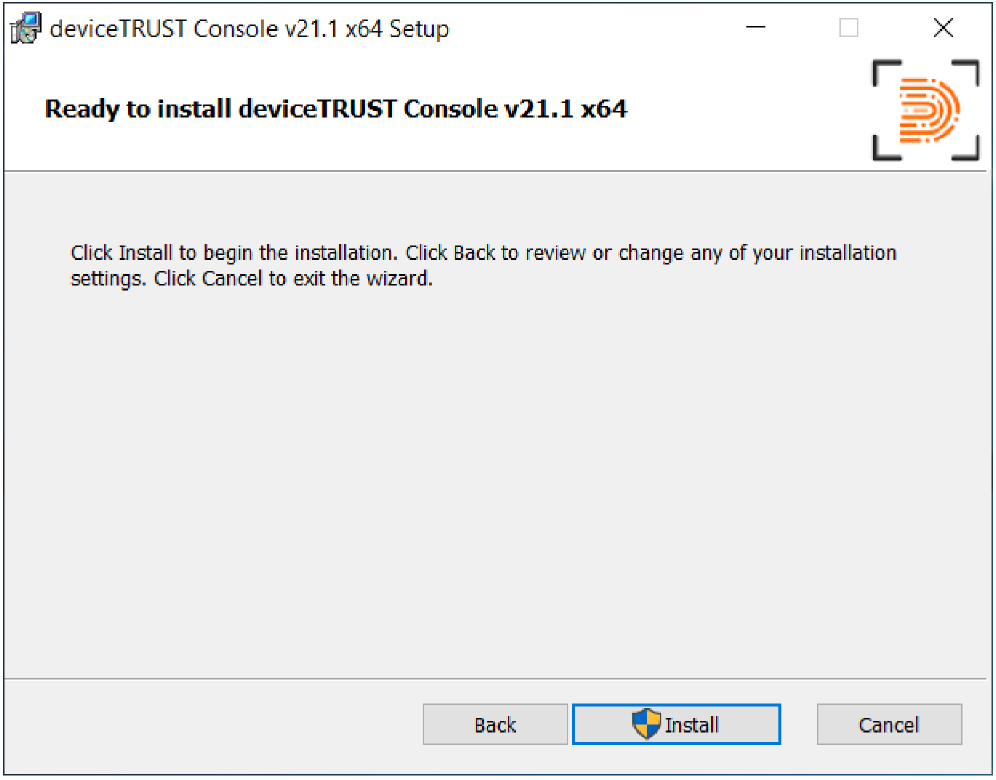
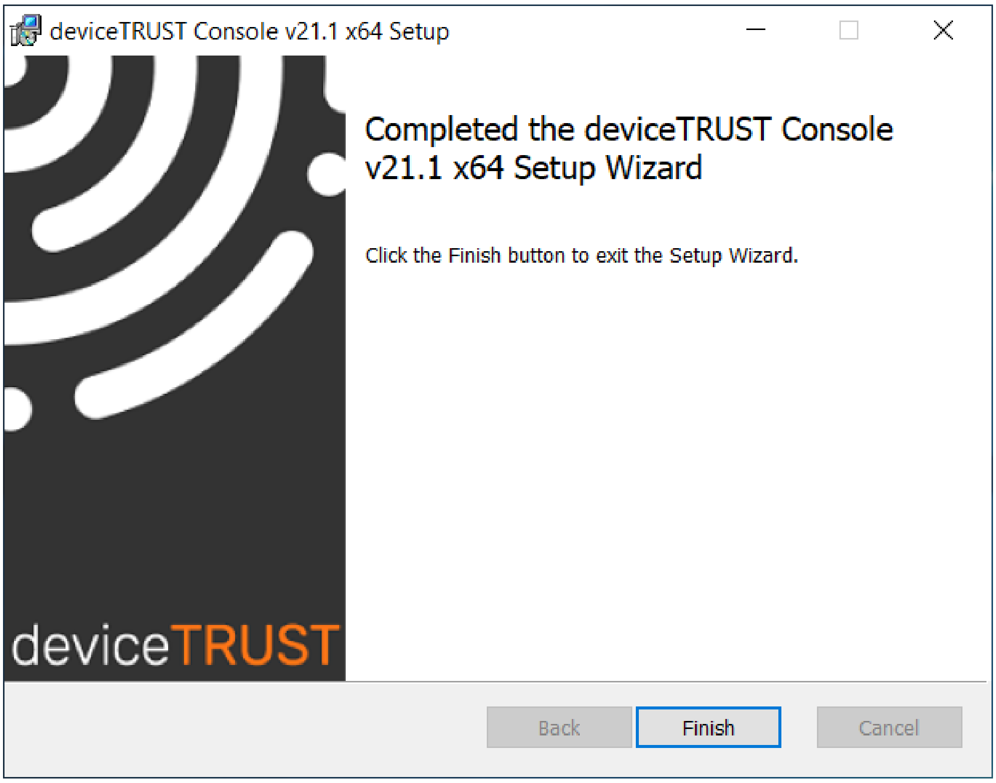


deviceTRUST Console v21.1 x64 Setup

Ready to install deviceTRUST Console v21.1 x64

Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.



deviceTRUST Console v21.1 x64 Setup

Completed the deviceTRUST Console v21.1 x64 Setup Wizard

Click the Finish button to exit the Setup Wizard.

> **Note**
>
> Installation path: `%PROGRAMFILES%\DEVICETRUST\CONSOLE`

Unattended Installation

The deviceTRUST Console can be installed unattended from the command line interface with the following options:

Component	Commandline
dtconsole-x64-release-x.x.x.x.msi	The deviceTRUST 64-bit Console installer file can be customized by common Microsoft Windows Installer parameters. An unattended installation can be achieved with the following parameters `MSIEXEC.EXE /I DTCONSOLE-X64-RELEASE-X.X.X.X.MSI /PASSIVE`
dtconsole-x86-release-x.x.x.x.msi	The deviceTRUST 32-bit Console installer file can be customized by common Microsoft Windows Installer parameters. An unattended installation can be achieved with the following parameters `MSIEXEC.EXE /I DTCONSOLE-X86-RELEASE-X.X.X.X.MSI /PASSIVE`

Installing the deviceTRUST® Client Extension

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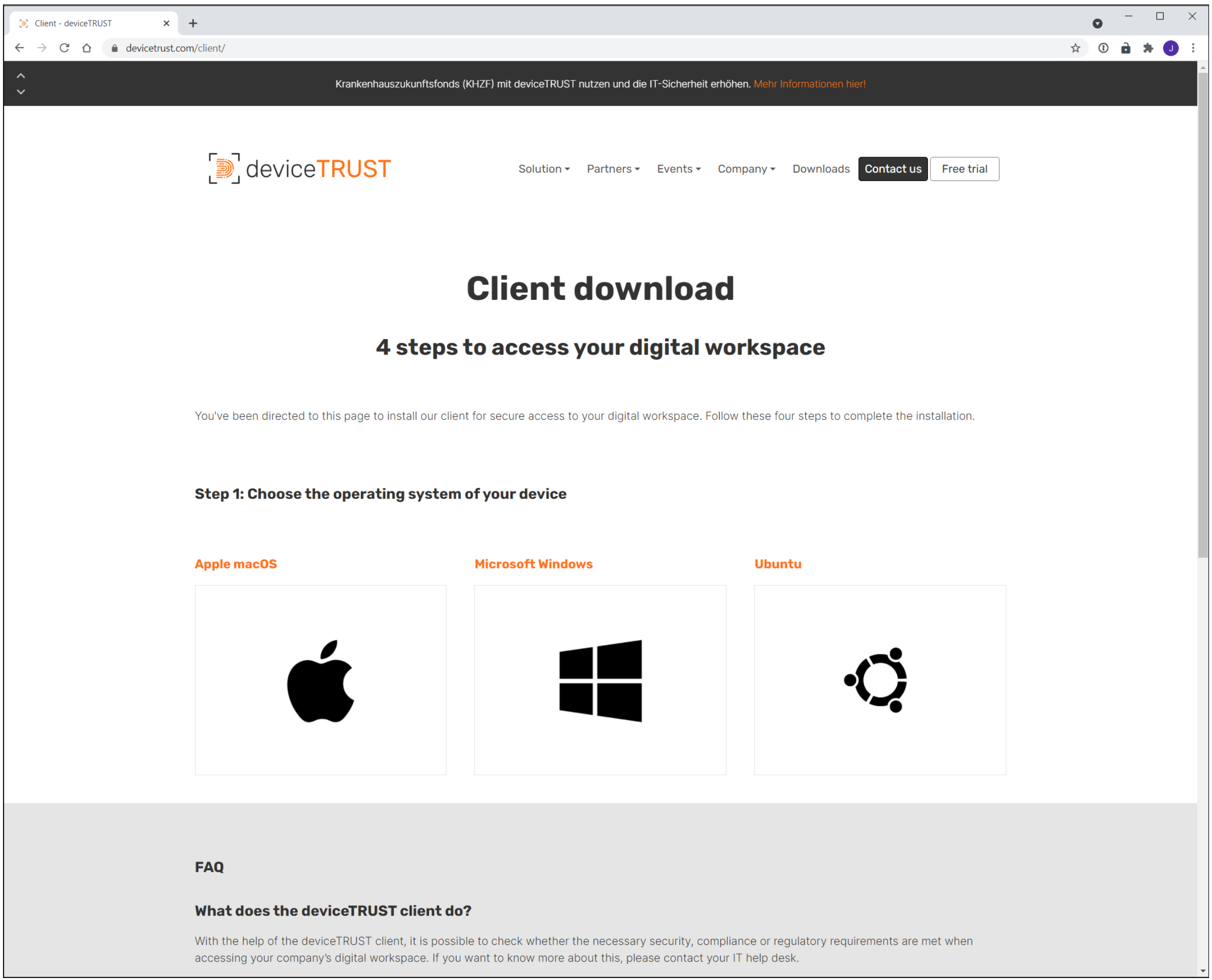
Client Extension installation on Microsoft Windows devices

The deviceTRUST Client Extension can be downloaded by following the steps on the deviceTRUST Client Extension Download page. The installation of the deviceTRUST Client Extension requires one-time administrative privileges of the user installing the deviceTRUST Client Extension.

The deviceTRUST® Client Extension for unmanaged Microsoft Windows devices supports an auto-update functionality. If a newer deviceTRUST Client Extension is available, the administrator of the remoting and DaaS environment can enforce a transparent update installation of the local deviceTRUST Client Extension.



Krankenhauszukunftsfonds (KHZF) mit deviceTRUST nutzen und die IT-Sicherheit erhöhen. Mehr Informationen hier!

Client download

4 steps to access your digital workspace

You've been directed to this page to install our client for secure access to your digital workspace. Follow these four steps to complete the installation.

Step 1: Choose the operating system of your device

Apple macOS

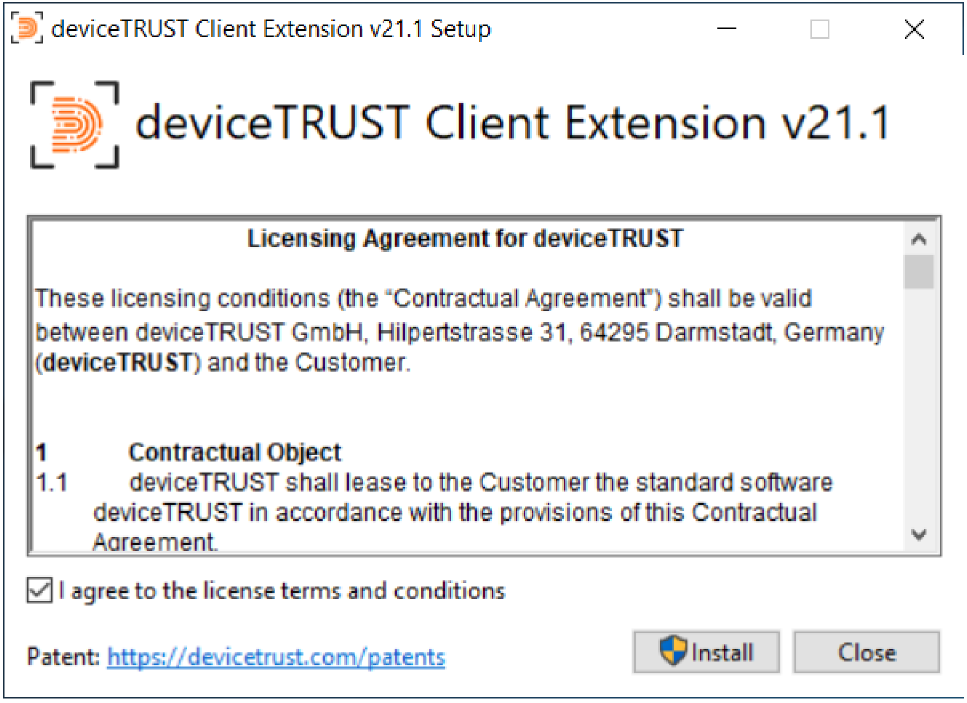
Microsoft Windows

Ubuntu

FAQ

What does the deviceTRUST client do?

With the help of the deviceTRUST client, it is possible to check whether the necessary security, compliance or regulatory requirements are met when accessing your company's digital workspace. If you want to know more about this, please contact your IT help desk.


deviceTRUST Client Extension v21.1 Setup
deviceTRUST Client Extension v21.1

Licensing Agreement for deviceTRUST

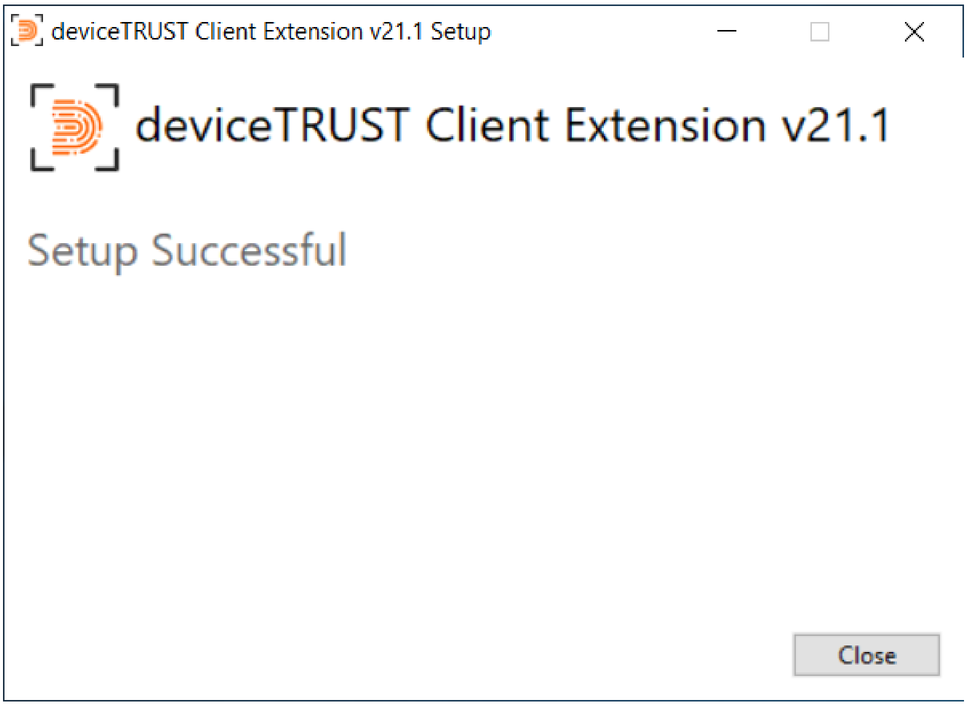
These licensing conditions (the "Contractual Agreement") shall be valid between deviceTRUST GmbH, Hilpertstrasse 31, 64295 Darmstadt, Germany (**deviceTRUST**) and the Customer.

1 Contractual Object

1.1 deviceTRUST shall lease to the Customer the standard software deviceTRUST in accordance with the provisions of this Contractual Agreement.

☑ I agree to the license terms and conditions

Patent: https://devicetrust.com/patents


deviceTRUST Client Extension v21.1 Setup

deviceTRUST Client Extension v21.1

Setup Successful

> **Important**
>
> - When using Microsoft RDP or VMware Horizon, when installing with custom credentials the user must logoff from their session before the installation is effective.

Client Extension Installation Command Line Options

The following command line options are available to the deviceTRUST Client Extension installer:

- `DTCLIENT-EXTENSION-RELEASE-X.X.X.EXE /INSTALL|REPAIR|UNINSTALL` - Installs, repairs or uninstalls the deviceTRUST Client Extension.
- `DTCLIENT-EXTENSION-RELEASE-X.X.X.EXE /PASSIVE|QUIET` - Passive displays a minimal user interface with no prompts for input. Quiet displays no user interface.
- `DTCLIENT-EXTENSION-RELEASE-X.X.X.EXE /NORESTART` - Surpresses any attempt to restart the local device.
- `DTCLIENT-EXTENSION-RELEASE-X.X.X.EXE /LOG <log.txt>` - Logs to a specific file. By default, logs are created within %TEMP%.

> **Note:**
>
> - One or more of the above options can be combined.
> - Installation path: %PROGRAMFILES%\DEVICETRUST\CLIENT
> - The deviceTRUST Client Extension installer installs both the 32-bit and 64-bit deviceTRUST Client Extension components depending on the Windows operating system platform.

Unattended Installation

The deviceTRUST Client Extension installer can be installed unattended from the command line interface with the following options:

Component	Commandline
dtclient-extension-release-x.x.x.exe	An unattended installation can be achieved with the following parameters `DTCLIENT-RELEASE-X.X.X.EXE /INSTALL /QUIET`

Active Setup Components

The deviceTRUST Client Extension uses Active Setup to make changes to the users profile. This involves the creation of the following Active Setup components.

***deviceTRUST Channel Registration 64-bit* component**

Registry Key: `HKLM\Software\Microsoft\Active Setup\Installed Components\\{ 2f780db6-903f-4c83-9d60-9d138e054dc9 }`

This Active Setup component is created during installation, and is responsible for the registration of the 64-bit Microsoft RDP Virtual Channel within the users profile. When not using the 64-bit Microsoft RDP Virtual Channel, it is safe to remove this key after the deviceTRUST Client Extension has been installed.

***deviceTRUST Channel Registration 32-bit* component**

Registry Key: `HKLM\Software\Wow6432Node\Microsoft\Active Setup\Installed Components\\{ 8a4445d6-867e-4e60-8cc5-05bc2e3a2512 }` (or `HKLM\Software\Microsoft\Active Setup\Installed Components\\{ 8a4445d6-867e-4e60-8cc5-05bc2e3a2512 }` on a 32-bit OS)

This Active Setup component is created during installation, and is responsible for:

- The registration of the 32-bit Microsoft RDP Virtual Channel.
- The registration of the 32-bit Citrix ICA® Virtual Channel with per-user installations of Citrix Workspace™ within the users profile.
- The registration of the 32-bit Amazon WorkSpaces Virtual Channel with per-user installations of Amazon WorkSpace within the users profile.
  When not using 32-bit Microsoft RDP or per-user installations of Citrix Workspace App or Amazon

WorkSpaces Client, it is safe to remove this key after the deviceTRUST Client Extension has been installed.

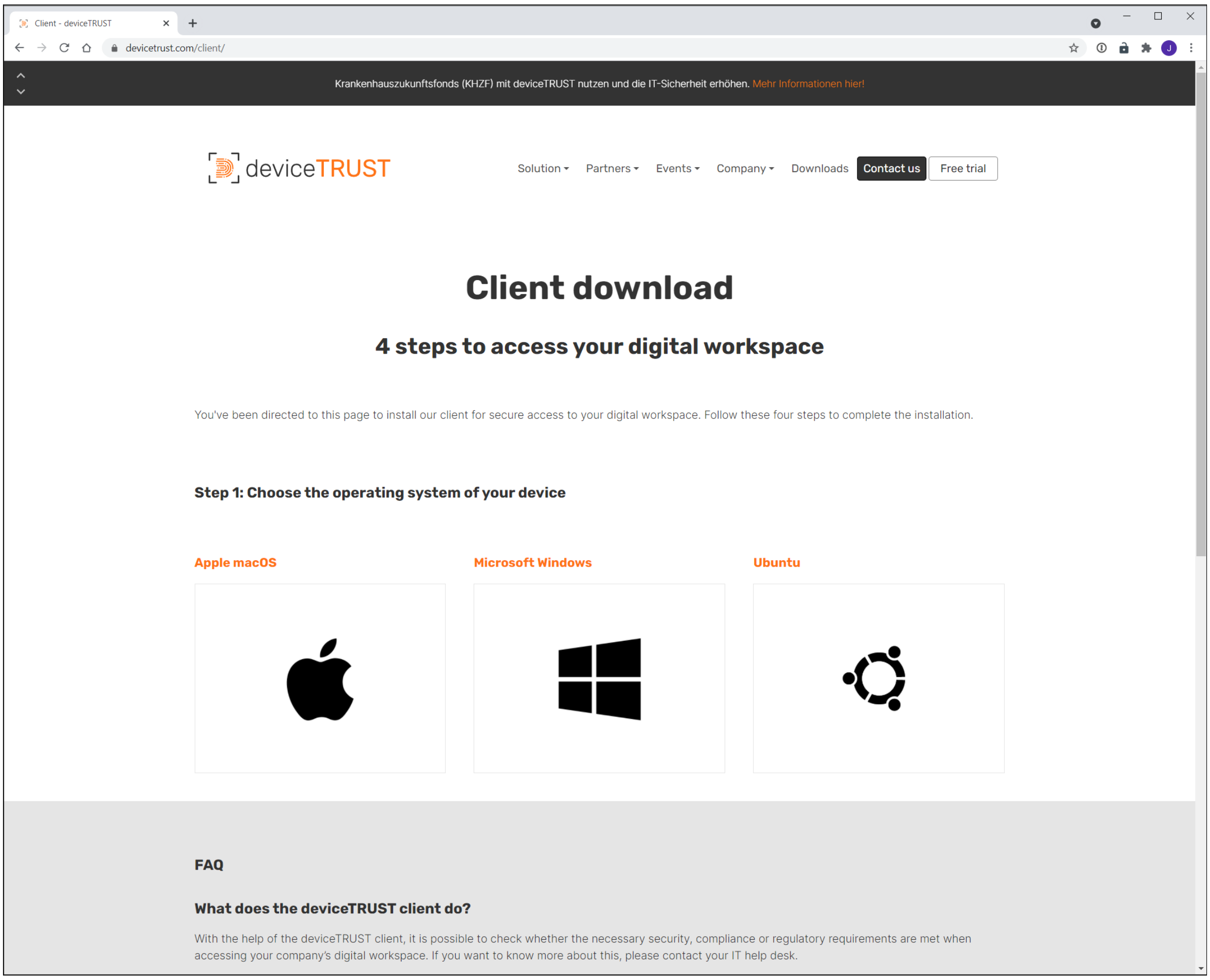
***deviceTRUST Citrix Cleanup 32-bit* component**

Registry Key: `HKLM\Software\Wow6432Node\Microsoft\Active Setup\Installed Components\\{ 3d65bd68-a307-4d64-af9c-17bc9c4b36e3 }`

This Active Setup component is created during uninstallation and is responsible for removing the registration of the 32-bit Citrix ICA Virtual Channel with per-user installations of Citrix Workspace within the users profile. When not using per-user installations of Citrix Workspace, it is safe to remove this key after the deviceTRUST Client Extension has been uninstalled.

Client installation on Apple macOS devices

The deviceTRUST macOS Client can be downloaded by following the steps on the deviceTRUST Client Extension Download page.



Krankenhauszukunftsfonds (KHZF) mit deviceTRUST nutzen und die IT-Sicherheit erhöhen. Mehr Informationen hier!

Client download

4 steps to access your digital workspace

You've been directed to this page to install our client for secure access to your digital workspace. Follow these four steps to complete the installation.

Step 1: Choose the operating system of your device

Apple macOS

Microsoft Windows

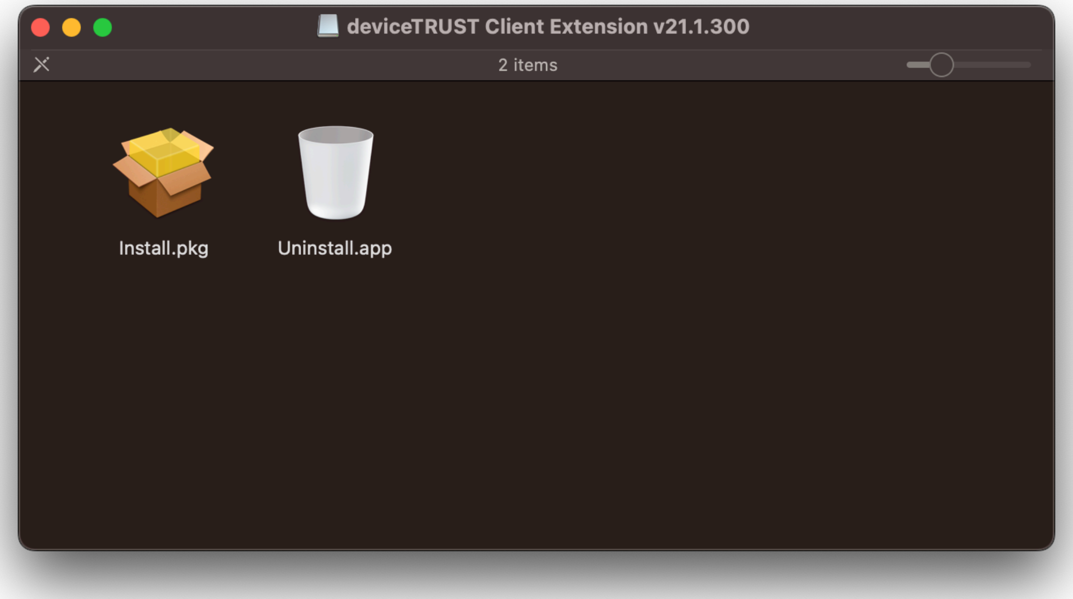
Ubuntu

FAQ

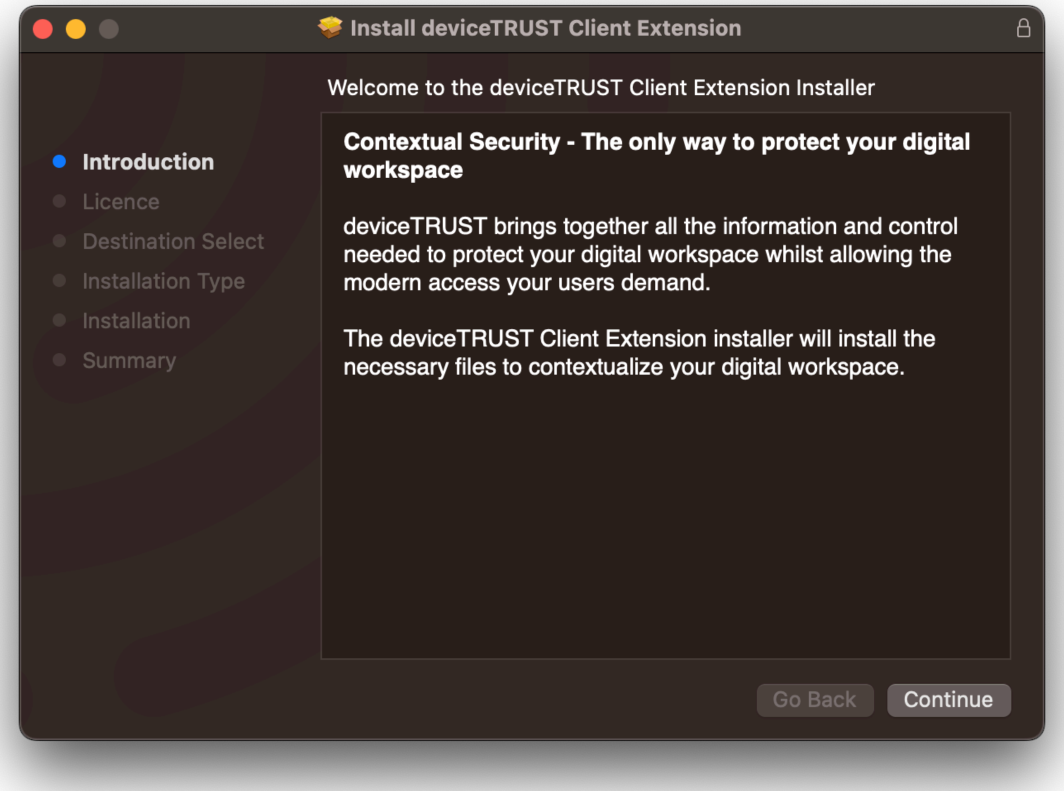
What does the deviceTRUST client do?

With the help of the deviceTRUST client, it is possible to check whether the necessary security, compliance or regulatory requirements are met when accessing your company's digital workspace. If you want to know more about this, please contact your IT help desk.

To access the installer, double click on the downloaded ‘dtclient-extension-macos-universal-release-W.X.Y.Z.dmg’file.



Launch the installer by double clicking on othe ‘Install.pkg’file.



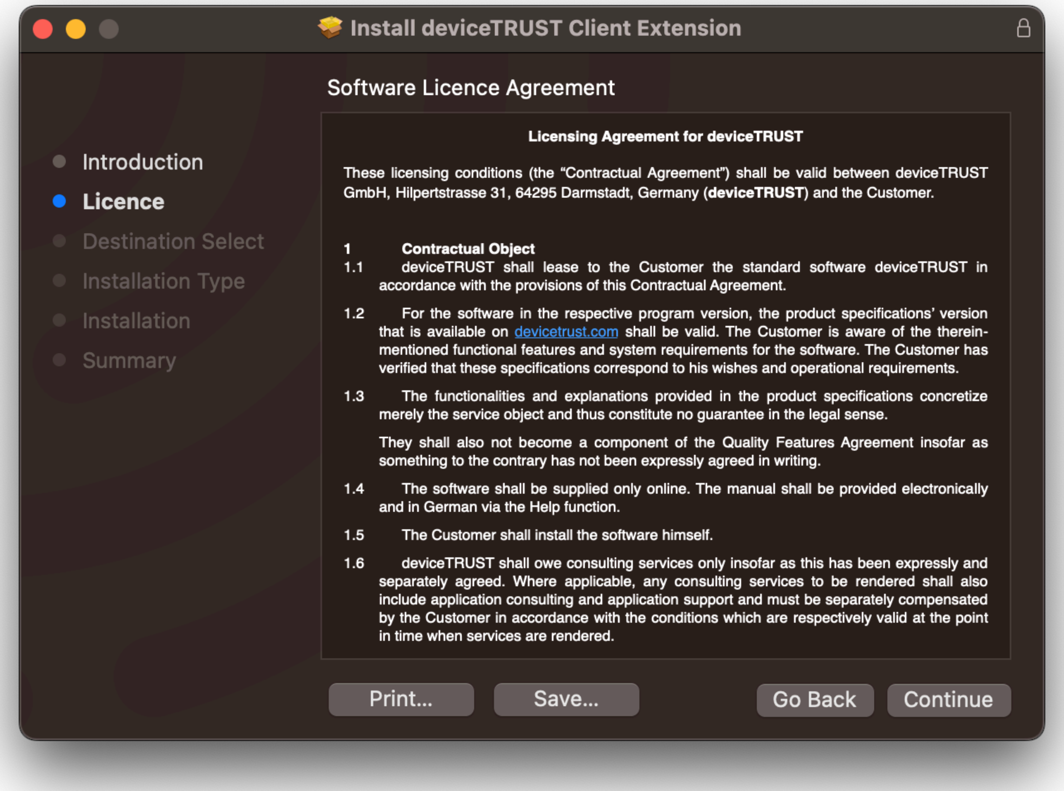
Welcome to the deviceTRUST Client Extension Installer

Contextual Security - The only way to protect your digital workspace

deviceTRUST brings together all the information and control needed to protect your digital workspace whilst allowing the modern access your users demand.

The deviceTRUST Client Extension installer will install the necessary files to contextualize your digital workspace.

Continue through the installation steps until complete.



Software Licence Agreement

Licensing Agreement for deviceTRUST

These licensing conditions (the "Contractual Agreement") shall be valid between deviceTRUST GmbH, Hilpertstrasse 31, 64295 Darmstadt, Germany (**deviceTRUST**) and the Customer.

1 **Contractual Object**

1.1 deviceTRUST shall lease to the Customer the standard software deviceTRUST in accordance with the provisions of this Contractual Agreement.

1.2 For the software in the respective program version, the product specifications' version that is available on devicetrust.com shall be valid. The Customer is aware of the therein-mentioned functional features and system requirements for the software. The Customer has verified that these specifications correspond to his wishes and operational requirements.

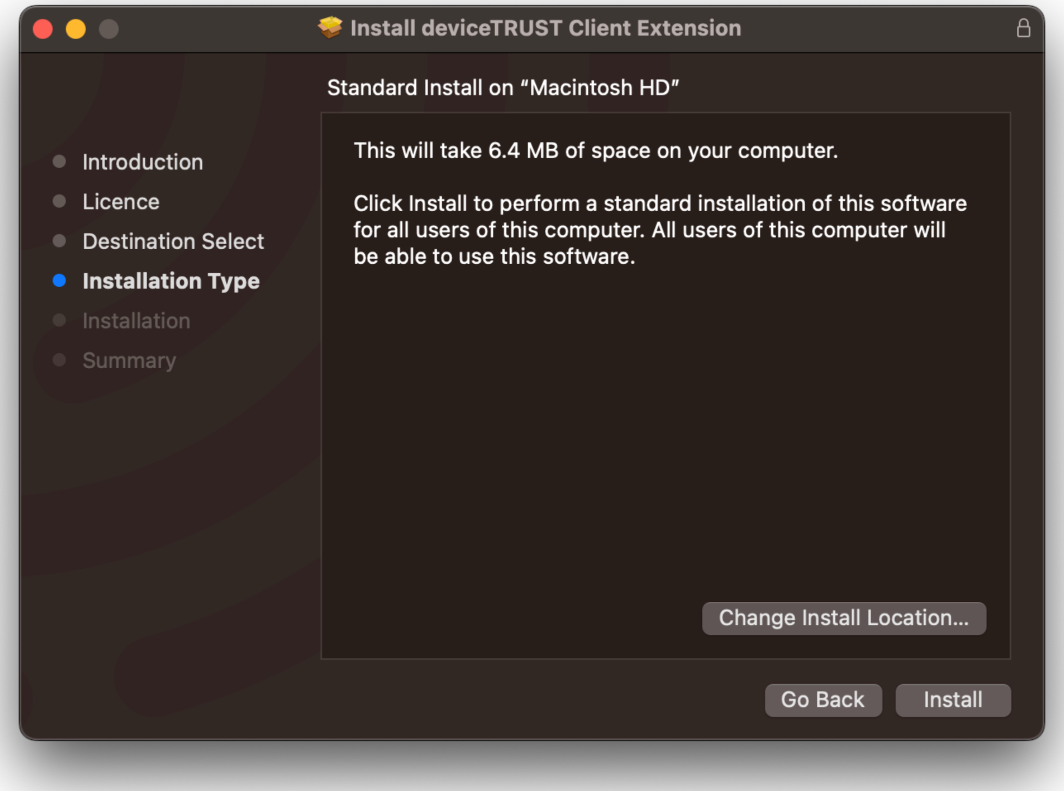
1.3 The functionalities and explanations provided in the product specifications concretize merely the service object and thus constitute no guarantee in the legal sense.

They shall also not become a component of the Quality Features Agreement insofar as something to the contrary has not been expressly agreed in writing.

1.4 The software shall be supplied only online. The manual shall be provided electronically and in German via the Help function.

1.5 The Customer shall install the software himself.

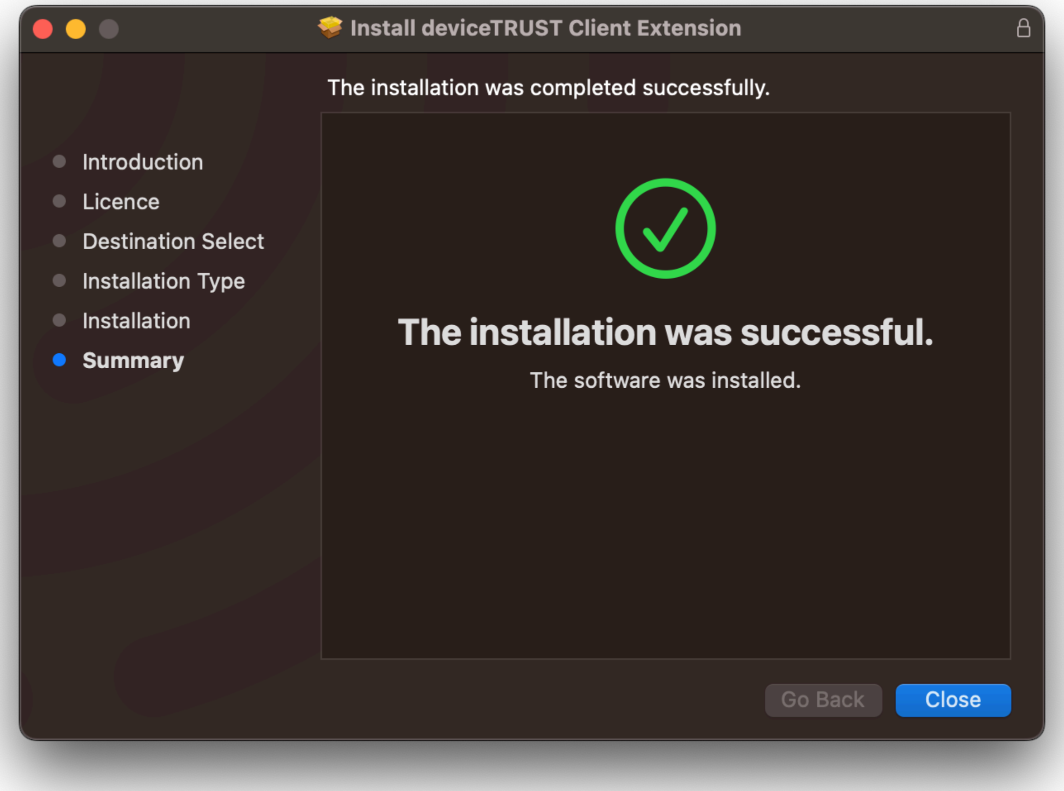
1.6 deviceTRUST shall owe consulting services only insofar as this has been expressly and separately agreed. Where applicable, any consulting services to be rendered shall also include application consulting and application support and must be separately compensated by the Customer in accordance with the conditions which are respectively valid at the point in time when services are rendered.



Standard Install on “Macintosh HD”

This will take 6.4 MB of space on your computer.

Click Install to perform a standard installation of this software for all users of this computer. All users of this computer will be able to use this software.



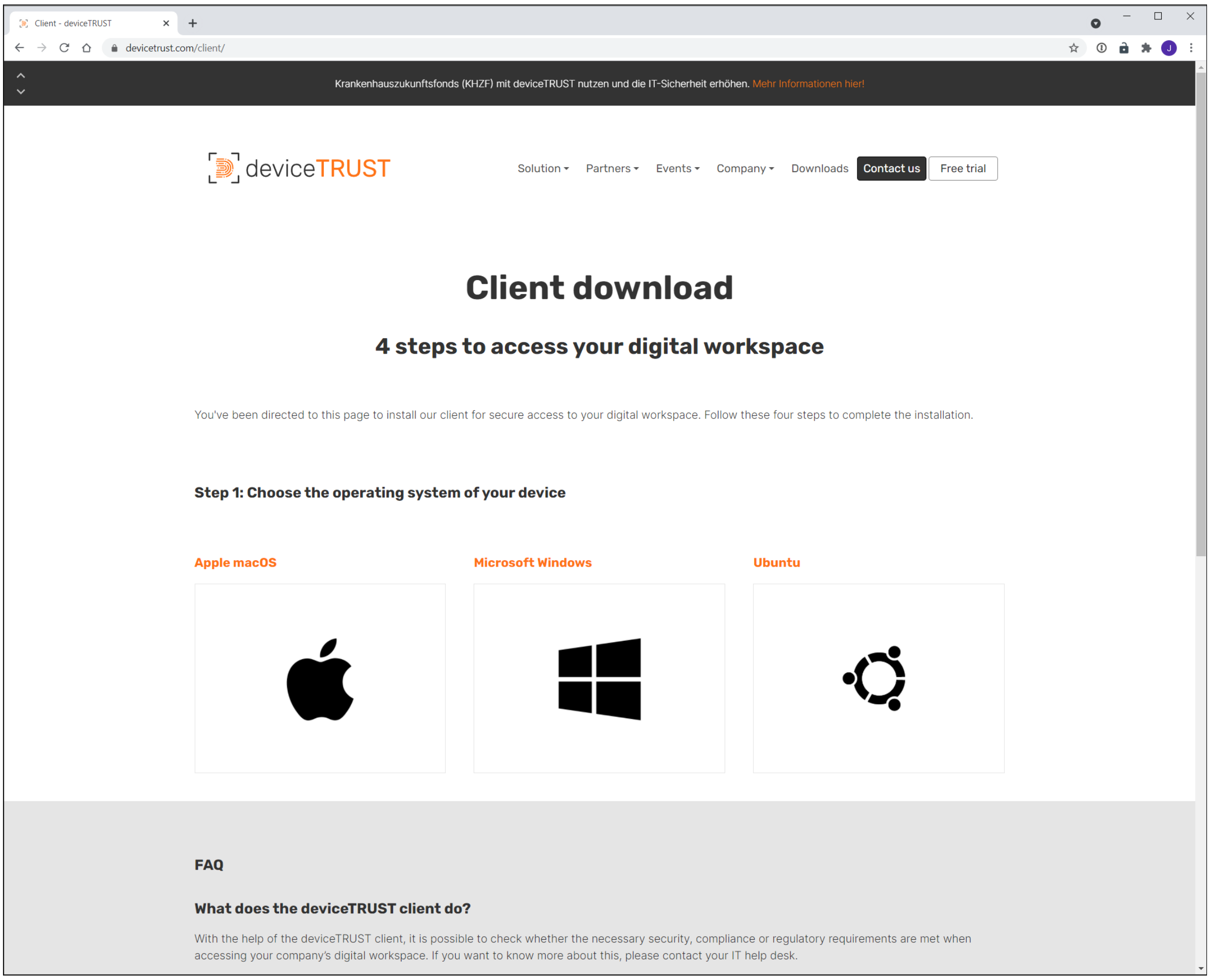
The installation was completed successfully.

The installation was successful.

The software was installed.

Client installation on Ubuntu devices

The deviceTRUST Ubuntu Client can be downloaded by following the steps on the deviceTRUST Client Extension Download page.



Krankenhauszukunftsfonds (KHZF) mit deviceTRUST nutzen und die IT-Sicherheit erhöhen. Mehr Informationen hier!

Client download

4 steps to access your digital workspace

You've been directed to this page to install our client for secure access to your digital workspace. Follow these four steps to complete the installation.

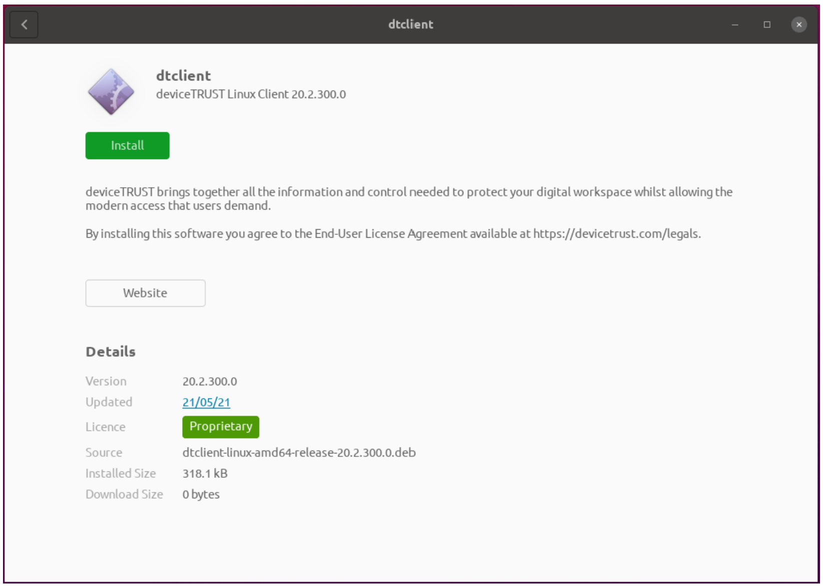
Step 1: Choose the operating system of your device

FAQ

What does the deviceTRUST client do?

With the help of the deviceTRUST client, it is possible to check whether the necessary security, compliance or regulatory requirements are met when accessing your company's digital workspace. If you want to know more about this, please contact your IT help desk.

To access the installer, double click on the downloaded ‘dtclient-linux-amd64-release-W.X.Y.Z.deb’ file.



dtclient
deviceTRUST Linux Client 20.2.300.0

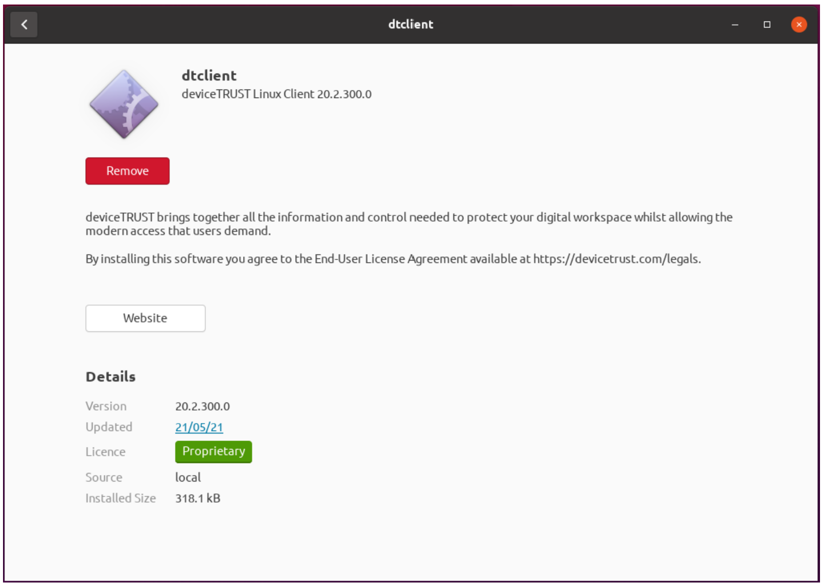
deviceTRUST brings together all the information and control needed to protect your digital workspace whilst allowing the modern access that users demand.

By installing this software you agree to the End-User License Agreement available at https://devicetrust.com/legals.

Details

Version	20.2.300.0
Updated	21/05/21
Licence	Proprietary
Source	dtclient-linux-amd64-release-20.2.300.0.deb
Installed Size	318.1 kB
Download Size	0 bytes

Click *Install* to complete the installation. An *Authentication Required* popup will be displayed and administrative credentials must be entered.



dtclient

deviceTRUST Linux Client 20.2.300.0

deviceTRUST brings together all the information and control needed to protect your digital workspace whilst allowing the modern access that users demand.

By installing this software you agree to the End-User License Agreement available at https://devicetrust.com/legals.

Details

Version	20.2.300.0
Updated	21/05/21
Licence	Proprietary
Source	local
Installed Size	318.1 kB

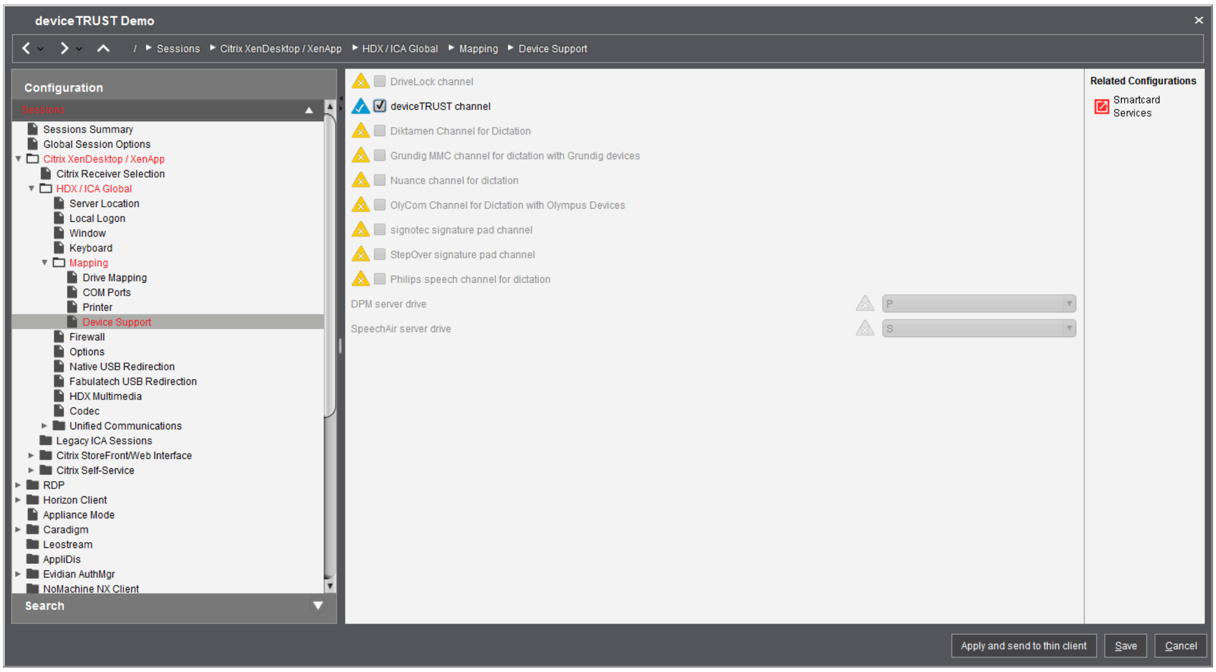
Client installation on IGEL OS devices

deviceTRUST is already integrated within the IGEL OS release 10.03.500 or higher and supports the Microsoft Remote Desktop Protocol (RDP) and the Citrix Independent Computing Architecture (ICA). Within the default IGEL profile, deviceTRUST is not enabled and needs to be enabled for both remoting protocols independently.

> **Note:**
>
> - To enable deviceTRUST® within the IGEL OS you can use the IGEL Universal Management Suite (UMS) or the local administrative interface.
> - IGEL devices must be restarted after enabling deviceTRUST.

Enable deviceTRUST for Citrix Independent Computing Architecture (ICA®)

Open the target profile (local or through the UMS) and navigate to SESSIONS\CITRIX XENDESKTOP / XENAPP\HDX / ICA GLOBAL\MAPPING and activate the DEVICETRUST CHANNEL option.



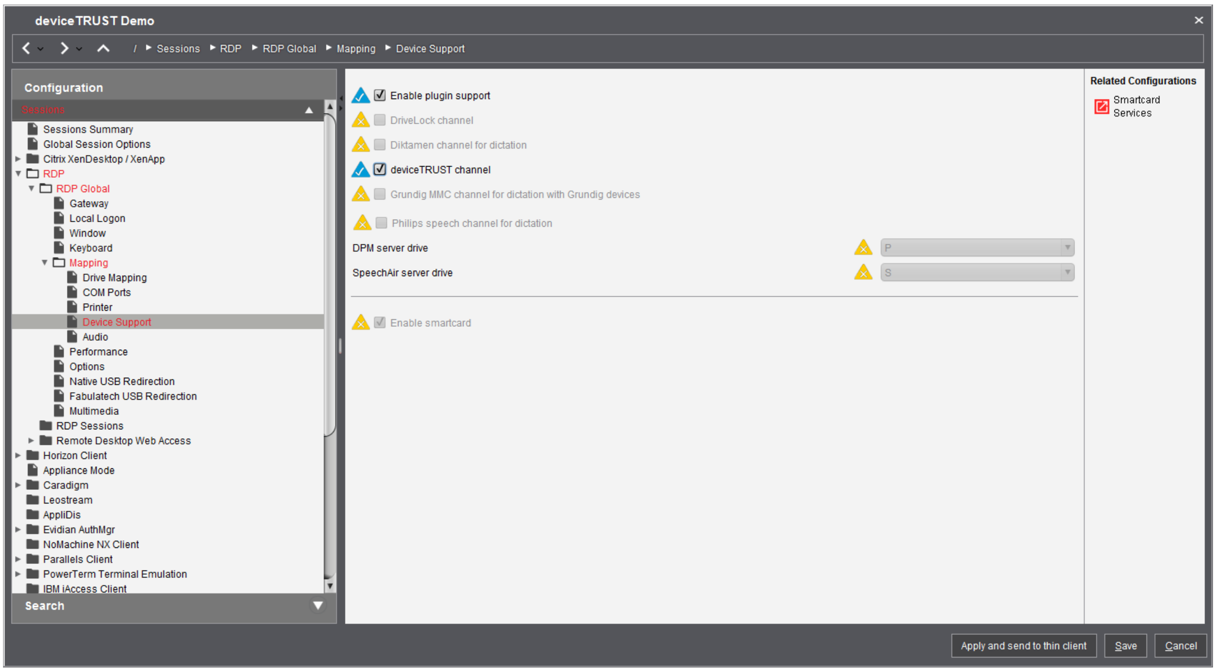
□ DriveLock channel
☑ deviceTRUST channel
□ Diktamen Channel for Dictation
□ Grundig MMC channel for dictation with Grundig devices
□ Nuance channel for dictation
□ OlyCom Channel for Dictation with Olympus Devices
□ signotec signature pad channel
□ StepOver signature pad channel
□ Philips speech channel for dictation

DPM server drive: P

SpeechAir server drive: S

Enable deviceTRUST for Microsoft Remote Desktop Protocol (RDP)

Open the target profile (local or through the UMS) and navigate to SESSIONS\RDP\RDP GLOBAL\MAPPING and activate the DEVICETRUST CHANNEL option.



☑ Enable plugin support
□ DriveLock channel
□ Diktamen channel for dictation
☑ deviceTRUST channel
□ Grundig MMC channel for dictation with Grundig devices
□ Philips speech channel for dictation

DPM server drive: P

SpeechAir server drive: S

☑ Enable smartcard

Client installation on Unicon™ eLux devices

Import the deviceTRUST® certificate chain

The deviceTRUST eLux Client is signed with a certificate that must first be trusted by both ELIAS and the eLux devices. Full details of how to import certificates into ELIAS and deploy them to eLux devices can be found by searching for 'Organizing certificates for package validation'within the eLux documentation. The latest deviceTRUST certificate chain can be downloaded Download certificate chain.

> **Note**
>
> The import of the deviceTRUST certificate chain is only necessary when the eLux® environment is configured to check the signatures of packages. However, it is good practice to ensure that the packages match the certificates.

Within ELIAS:

- Import `devicetrust-gmbh-20210321.pem` into `Trusted Issuer`.
- Import `globalsign-extended-validation-codesigning-ca-sha256-g3-20240615.pem` and `globalsign-intermediate-20280128.pem` into `Intermediate CA`.
- Import `globalsign-20280128.pem` into `Trusted Root CA`.

Within the Scout console:

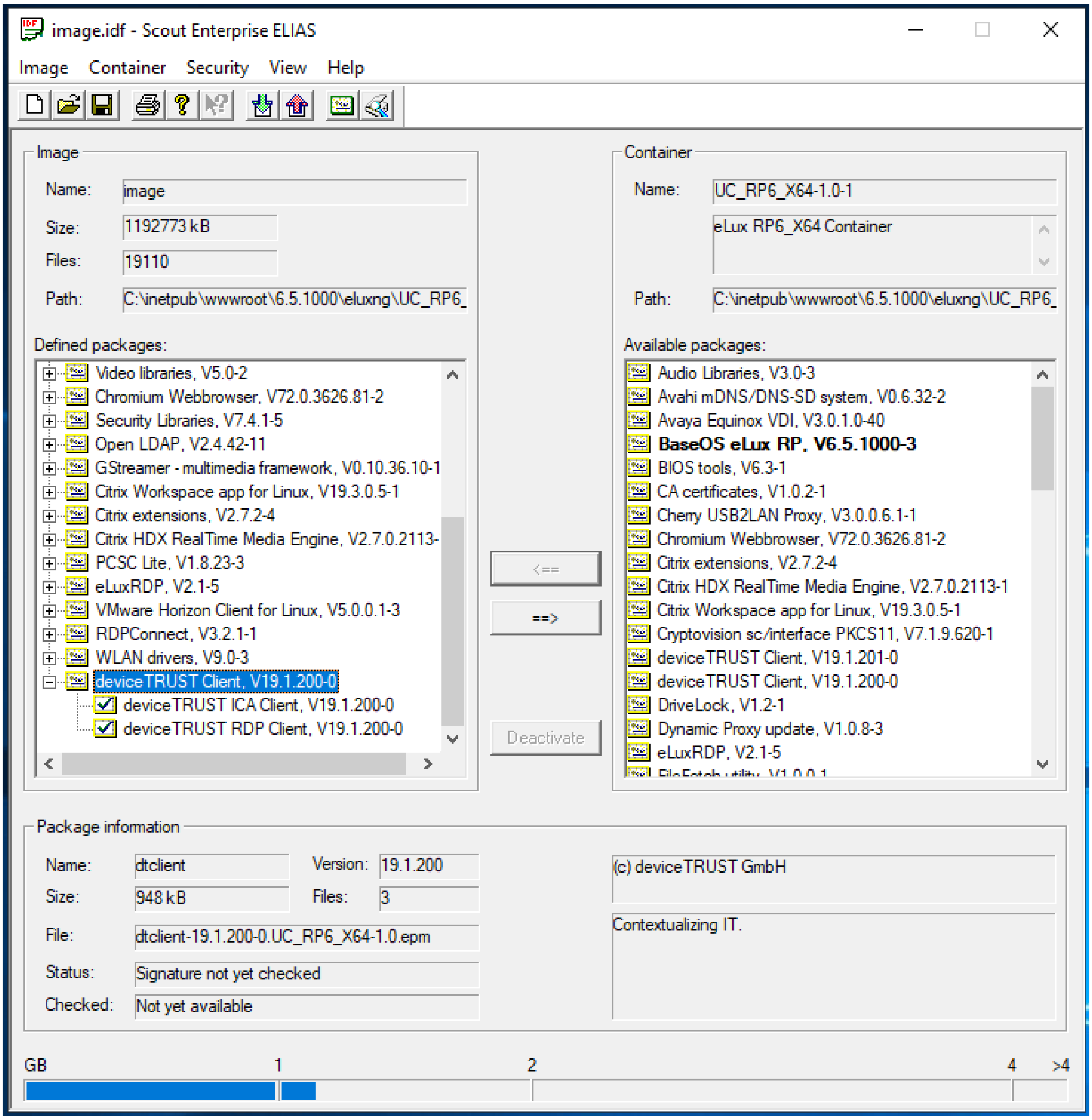
- Deploy all of the above `pem` files into the `/setup/cacerts/` folder of the eLux device.

Install the package

Within ELIAS:

- Ensure that the required 'deviceTRUST Client'package has been imported into the package library.
- If you've imported the deviceTRUST certificate chain, then check the signatures of the package.
- Assign the 'deviceTRUST Client'package to the image.

For ICA support, ensure the 'deviceTRUST ICA Client, Vx.x.x-x'option is active under the defined package 'deviceTRUST Client, Vx.x.x-x'.
For RDP support, ensure the 'deviceTRUST RDP Client, Vx.x.x-x'option is active under the defined package 'deviceTRUST Client, Vx.x.x-x'.



Image

Name: image

Size: 1192773 kB

Files: 19110

Path: C:\inetpub\wwwroot\6.5.1000\eluxng\UC_RP6_

Defined packages:

- Video libraries, V5.0-2
- Chromium Webbrowser, V72.0.3626.81-2
- Security Libraries, V7.4.1-5
- Open LDAP, V2.4.42-11
- GStreamer - multimedia framework, V0.10.36.10-1
- Citrix Workspace app for Linux, V19.3.0.5-1
- Citrix extensions, V2.7.2-4
- Citrix HDX RealTime Media Engine, V2.7.0.2113-
- PCSC Lite, V1.8.23-3
- eLuxRDP, V2.1-5
- VMware Horizon Client for Linux, V5.0.0.1-3
- RDPConnect, V3.2.1-1
- WLAN drivers, V9.0-3
- deviceTRUST Client, V19.1.200-0
  - ☑ deviceTRUST ICA Client, V19.1.200-0
  - ☑ deviceTRUST RDP Client, V19.1.200-0

Container

Name: UC_RP6_X64-1.0-1

eLux RP6_X64 Container

Path: C:\inetpub\wwwroot\6.5.1000\eluxng\UC_RP6_

Available packages:

- Audio Libraries, V3.0-3
- Avahi mDNS/DNS-SD system, V0.6.32-2
- Avaya Equinox VDI, V3.0.1.0-40
- **BaseOS eLux RP, V6.5.1000-3**
- BIOS tools, V6.3-1
- CA certificates, V1.0.2-1
- Cherry USB2LAN Proxy, V3.0.0.6.1-1
- Chromium Webbrowser, V72.0.3626.81-2
- Citrix extensions, V2.7.2-4
- Citrix HDX RealTime Media Engine, V2.7.0.2113-1
- Citrix Workspace app for Linux, V19.3.0.5-1
- Cryptovision sc/interface PKCS11, V7.1.9.620-1
- deviceTRUST Client, V19.1.201-0
- deviceTRUST Client, V19.1.200-0
- DriveLock, V1.2-1
- Dynamic Proxy update, V1.0.8-3
- eLuxRDP, V2.1-5
- FileFetch utility, V1.0.0-1

Package information

Name: dtclient

Version: 19.1.200

Size: 948 kB

Files: 3

File: dtclient-19.1.200-0.UC_RP6_X64-1.0.epm

Status: Signature not yet checked

Checked: Not yet available

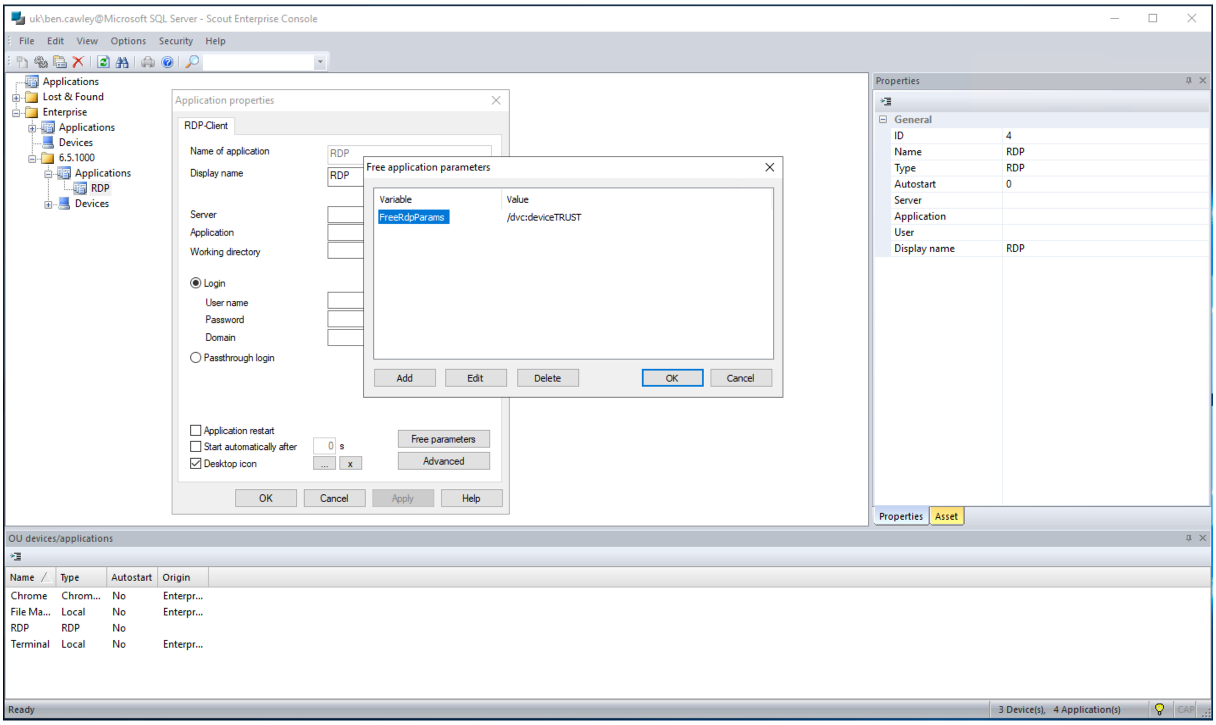
(c) deviceTRUST GmbH

Contextualizing IT.

Within the Scout console:

- Update your eLux devices.

To enable the RDP virtual channel, within your eLux Scout console navigate to Enterprise > [eLux version number] > Applications > RDP, and select properties, then ‘Free parameters’. Add variable ‘FreeRdpParams’with value ‘/dvc:deviceTRUST’.



uk\ben.cawley@Microsoft SQL Server - Scout Enterprise Console

Application properties

RDP-Client

Name of application: RDP
Display name: RDP
Server
Application
Working directory
● Login
User name
Password
Domain
○ Passthrough login

☐ Application restart
☐ Start automatically after 0 s
☑ Desktop icon

Free application parameters

Variable	Value
FreeRdpParams	/dvc:deviceTRUST

Properties

General

ID	4
Name	RDP
Type	RDP
Autostart	0
Server	
Application	
User	
Display name	RDP

Name	Type	Autostart	Origin
Chrome	Chrom...	No	Enterpr...
File Ma...	Local	No	Enterpr...
RDP	RDP	No	
Terminal	Local	No	Enterpr...

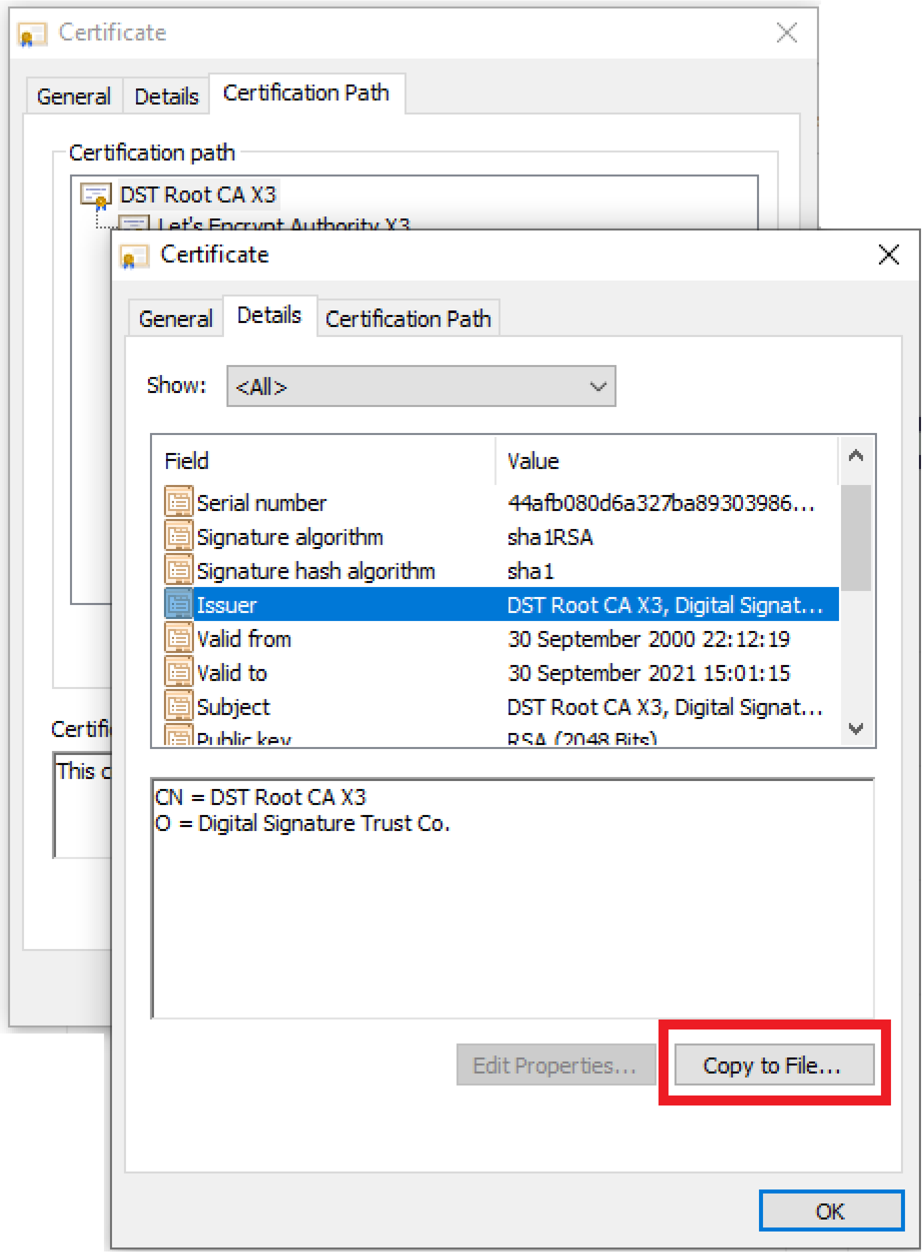
Ready — 3 Device(s), 4 Application(s)

Next time you connect using ICA® or RDP to a server with a licensed deviceTRUST Host, the properties of your eLux device will be available within your virtual session.

Deploy the ripe.stat root certificate

To ensure the deviceTRUST eLux client can successfully obtain whois information you will need to ensure that the required root certificate is deployed to all your eLux devices.

To obtain the root certificate, navigate to stat.ripe.net within your browser and save the certificate to disk as a base-64 encoded X. 509 file.



Certificate

General | Details | Certification Path

Show: <All>

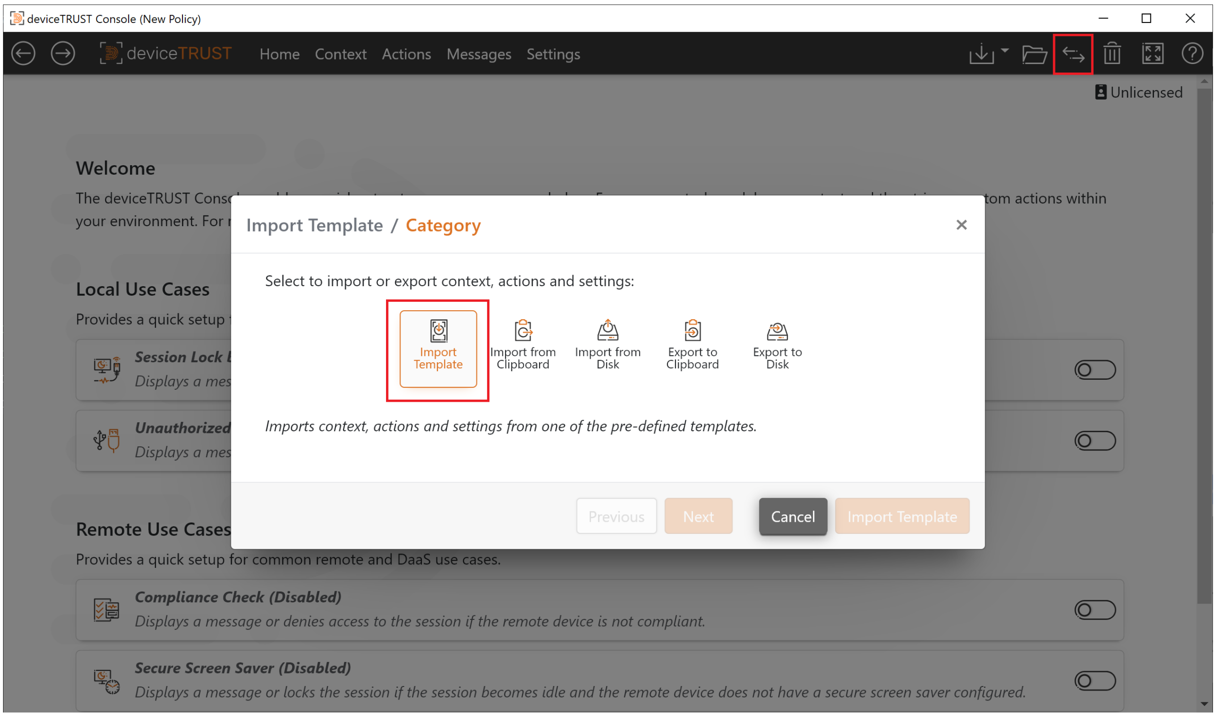
Field	Value
Serial number	44afb080d6a327ba89303986…
Signature algorithm	sha1RSA
Signature hash algorithm	sha1
Issuer	DST Root CA X3, Digital Signat…
Valid from	30 September 2000 22:12:19
Valid to	30 September 2021 15:01:15
Subject	DST Root CA X3, Digital Signat…
Public key	RSA (2048 Bits)

CN = DST Root CA X3
O = Digital Signature Trust Co.

Within the Scout console select ‘Advanced device configuration\Files’on the device container, import the certificate and deploy to your device certificate store location.

Templates

The deviceTRUST® Console includes a set of templates which can be used to quickly implement a use case. Launch the deviceTRUST Console and select `SHARING` in the top right of the navigation bar and then `IMPORT TEMPLATE`.



Select to import or export context, actions and settings:

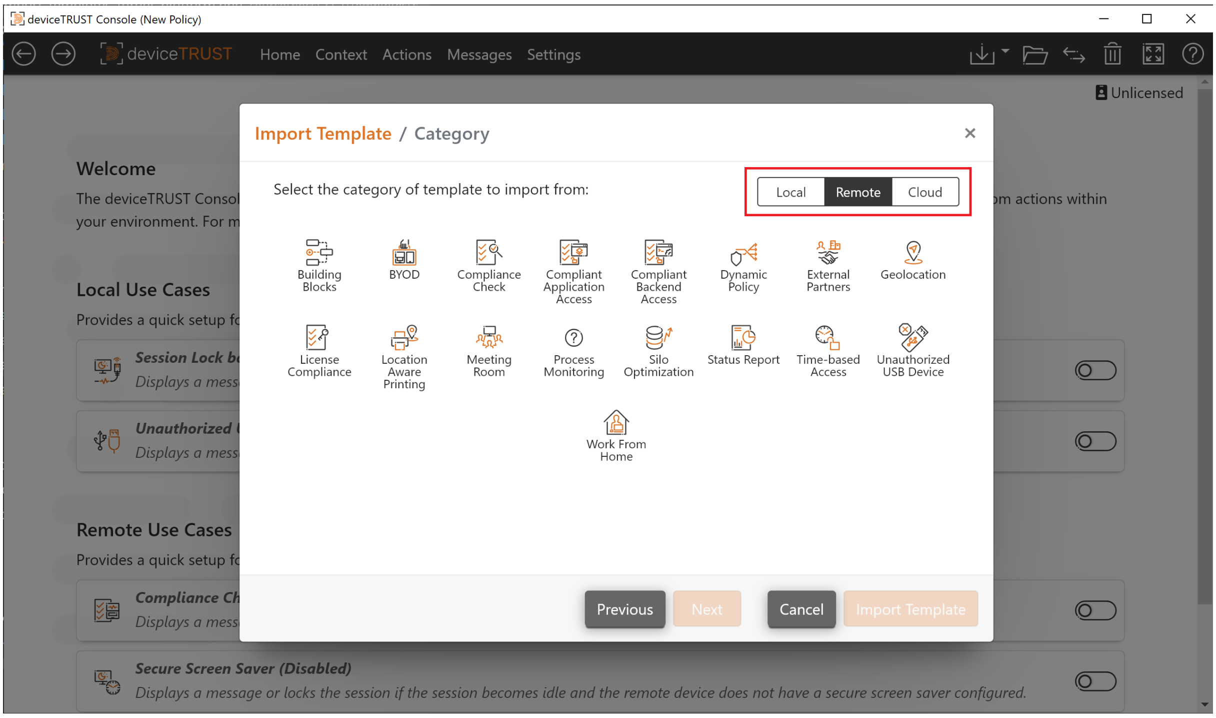
Imports context, actions and settings from one of the pre-defined templates.

Provides a quick setup for common remote and DaaS use cases.

Compliance Check (Disabled) *Displays a message or denies access to the session if the remote device is not compliant.*

Secure Screen Saver (Disabled) *Displays a message or locks the session if the session becomes idle and the remote device does not have a secure screen saver configured.*

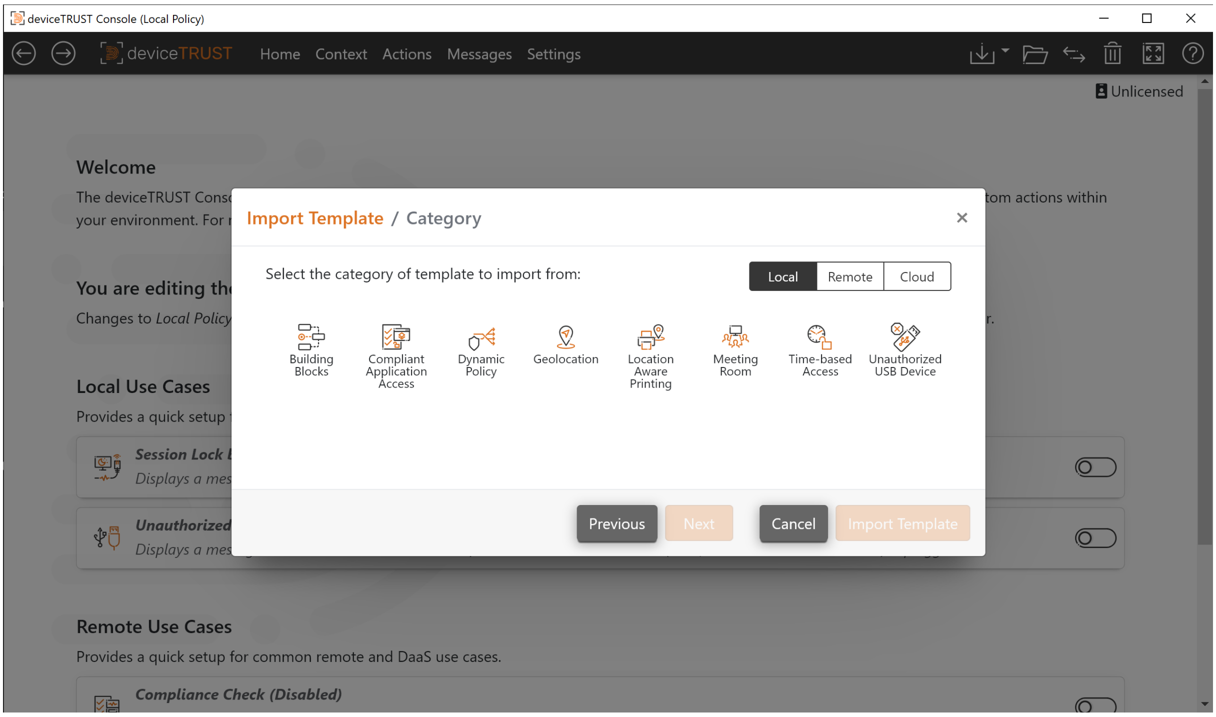
The deviceTRUST use cases are summarized in the following categories for each target platform. Use the filter to select the desired target platform.



Select the category of template to import from:

Local Templates

The deviceTRUST® use cases for local devices are summarized within the following categories.



Welcome

The deviceTRUST Cons… your environment. For r… …tom actions within

You are editing th…

Changes to *Local Policy*…

Local Use Cases

Provides a quick setup f…

Remote Use Cases

Provides a quick setup for common remote and DaaS use cases.

Import Template / Category

Select the category of template to import from:

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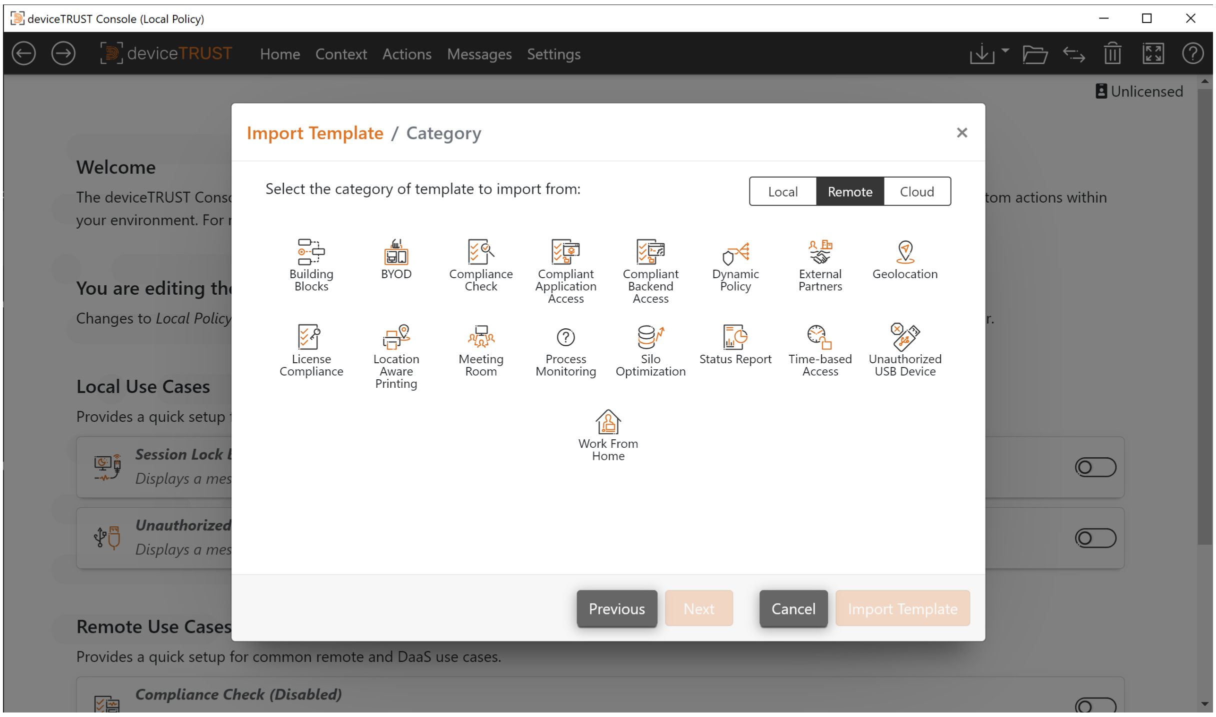
Remote Templates

The deviceTRUST® use cases for remoting and DaaS are summarized within the following categories.



Select the category of template to import from:

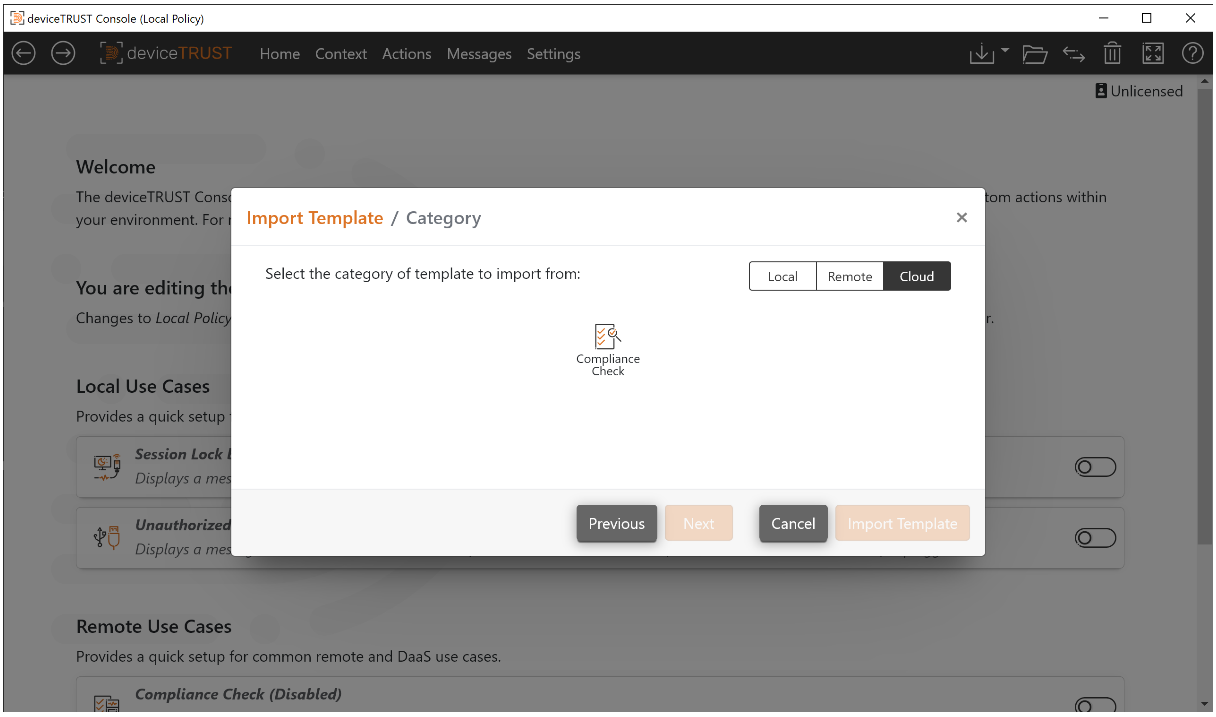
TABLE OF CONTENTS

not licensed.

- Location Aware Printing - Maps network printers and defines a default printer based on the device placement within a building.
- Meeting Room - Controls an idle period for devices based upon whether the device is placed within a meeting room.
- Process Monitoring - Controls access to applications or the session based on running processes on the remote device.
- Silo Optimization - Reduces the number of silos by controlling application access for remote devices within a single silo.
- Status Report - Reports the status of the remote device to various destinations.
- Time-based Access - Controls access to the session or applications when accessed outside of working hours.
- Unauthorized USB Device - Denies access to the session when an unauthorized USB device is plugged in.
- Work From Home - Validates and controls access based on the remote device for home office users.

Cloud Templates

The deviceTRUST® use cases for cloud connected devices are summarized within the following categories.



Import Template / Category

Select the category of template to import from:

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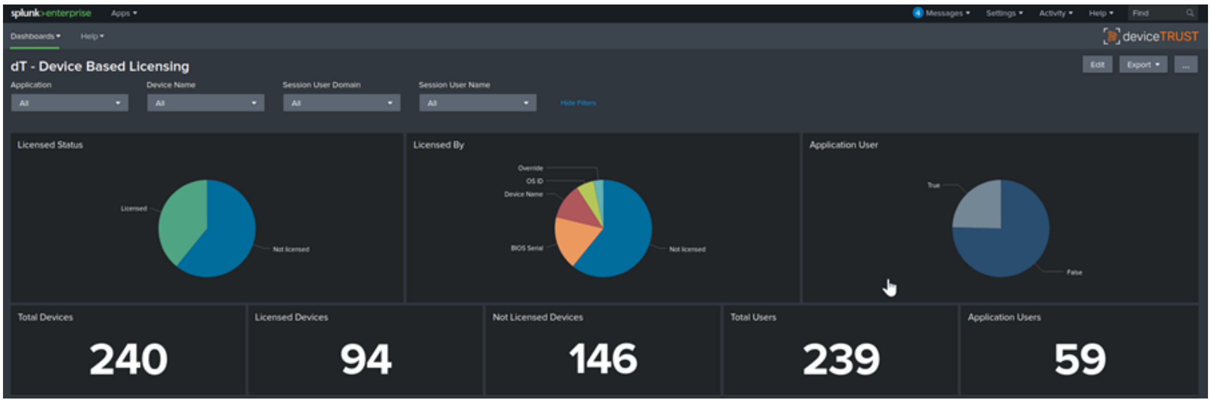
Reporting

TABLE OF CONTENTS

Splunk Dashboards

deviceTRUST® includes a Splunk app to easily create a Splunk dashboard to monitor the contextual status of your remoting and DaaS environment.

The License Compliance Templates can be used with the Splunk app to monitor or enforce Device-Based Licensing requirements for one or more applications:



dT - Device Based Licensing

Application: All

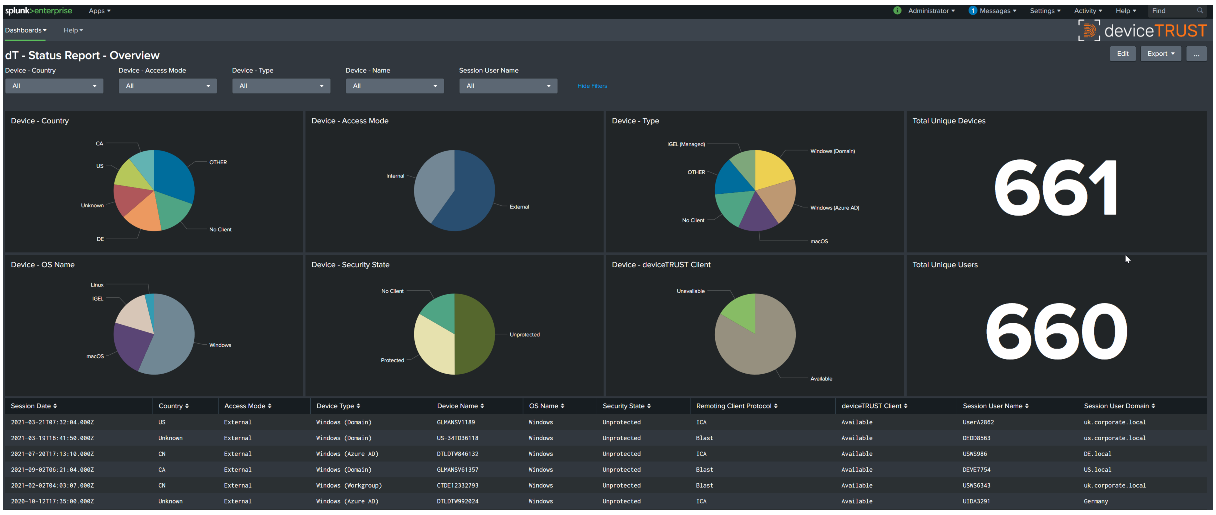
Device Name: All

Session User Domain: All

Session User Name: All

Total Devices	Licensed Devices	Not Licensed Devices	Total Users	Application Users
240	94	146	239	59

The Splunk Status Report Template can be used to monitor the status of your remoting and DaaS environment:



dT - Status Report - Overview

Device - Country: All
Device - Access Mode: All
Device - Type: All
Device - Name: All
Session User Name: All

Total Unique Devices
661

Total Unique Users
660

Session Date	Country	Access Mode	Device Type	Device Name	OS Name	Security State	Remoting Client Protocol	deviceTRUST Client	Session User Name	Session User Domain
2021-03-21T07:32:04.000Z	US	External	Windows (Domain)	GLMANSV1189	Windows	Unprotected	ICA	Available	UserA2862	uk.corporate.local
2021-03-19T16:41:50.000Z	Unknown	External	Windows (Domain)	US-34TD36118	Windows	Unprotected	Blast	Available	DEDD8563	us.corporate.local
2021-07-20T17:13:10.000Z	CN	External	Windows (Azure AD)	DTLDTW846132	Windows	Unprotected	ICA	Available	USWS986	DE.local
2021-09-02T06:21:04.000Z	CA	External	Windows (Domain)	GLMANSV61357	Windows	Unprotected	Blast	Available	DEVE7754	US.local
2021-02-02T04:03:07.000Z	CN	External	Windows (Workgroup)	CTDE12332793	Windows	Unprotected	Blast	Available	USWS6343	uk.corporate.local
2020-10-12T17:35:00.000Z	Unknown	External	Windows (Azure AD)	DTLDTW992024	Windows	Unprotected	ICA	Available	UIDA3291	Germany

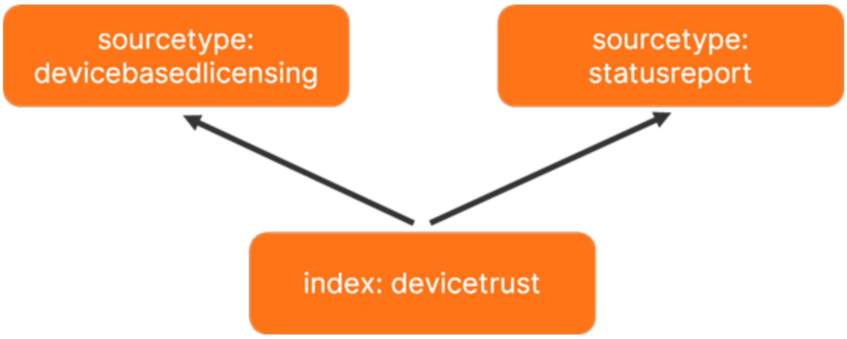
The following steps will be performed:

Step 1: Creating the Splunk Index

Splunk collects data in *indexes* which holds the log data and make it searchable. There are different methods for working with indexes. Data can, for example, flow into one common index. Alternatively, multiple indexes can be created, one for each use case or scenario.

The deviceTRUST reports use one common index `devicetrust` for storing the data. The separation for the different uses cases is done by applying *sourcetypes* `devicebasedlicensing` and `statusreport`.

Our deviceTRUST reports are built on the described combination of index and sourcetypes. If your implementation differs, the reports will have to be adjusted accordingly. Make sure to let us know, we'll happily assist.


sourcetype: devicebasedlicensing

sourcetype: statusreport

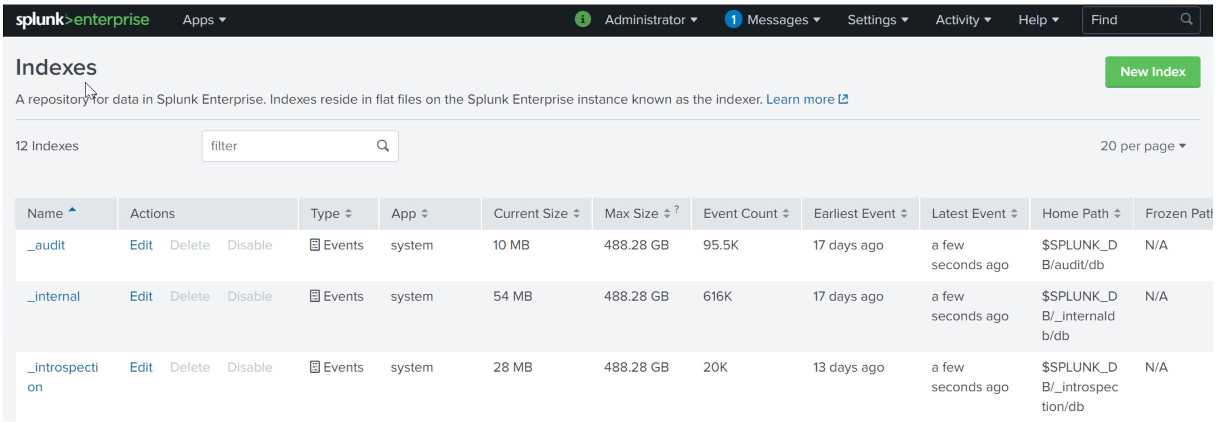
index: devicetrust

You can either create the index `devicetrust` manually or by importing our prepared app `dt_index`.

Step 1.1: Manually creating the Splunk Index

Implementing the index manually does not require any special configuration.

- Open your Splunk management GUI
- Navigate to `Settings\Indexes` and click `New Index`.



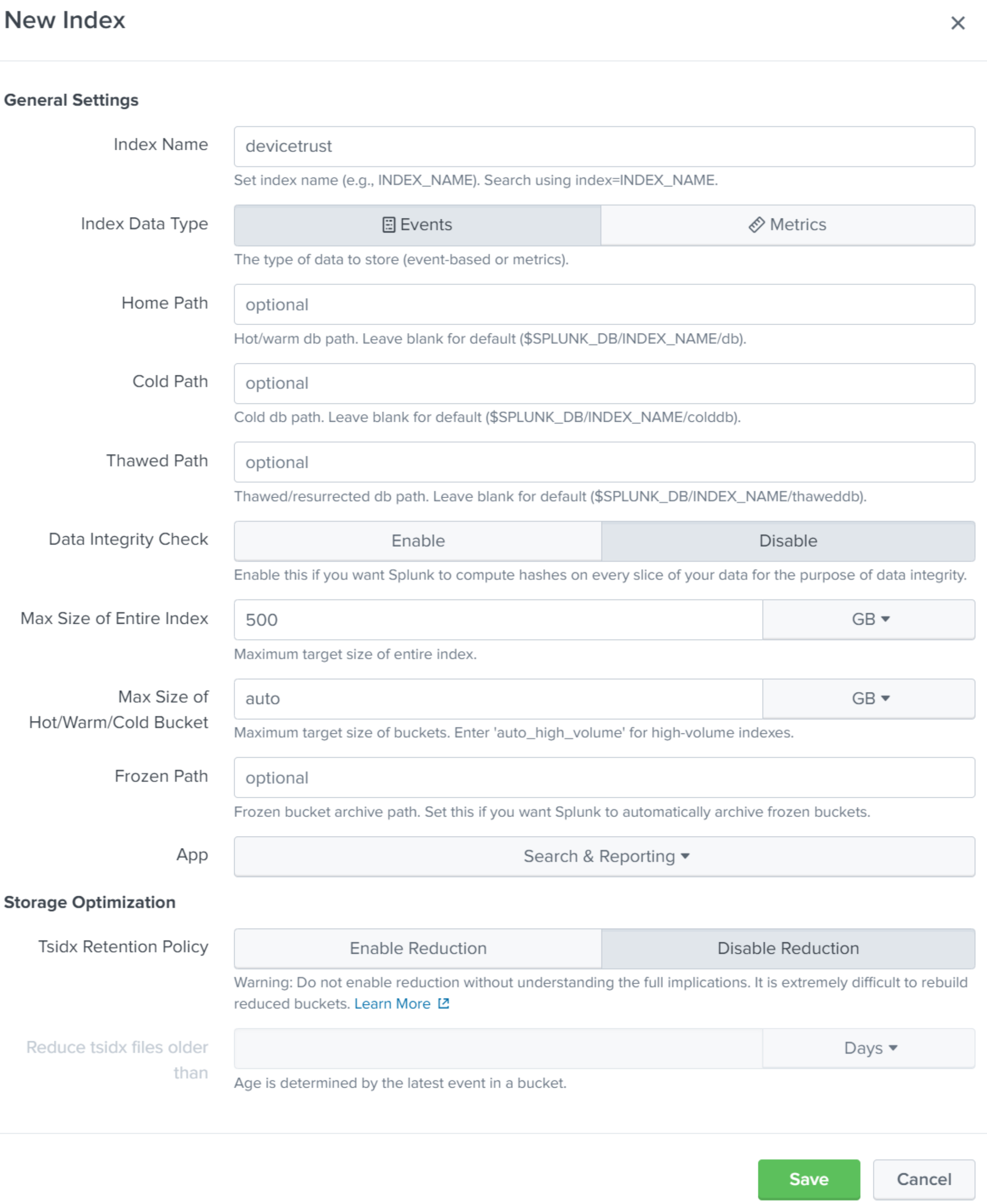
Indexes

A repository for data in Splunk Enterprise. Indexes reside in flat files on the Splunk Enterprise instance known as the indexer. Learn more

12 Indexes

Name	Actions	Type	App	Current Size	Max Size	Event Count	Earliest Event	Latest Event	Home Path	Frozen Patl
_audit	Edit Delete Disable	Events	system	10 MB	488.28 GB	95.5K	17 days ago	a few seconds ago	$SPLUNK_DB/audit/db	N/A
_internal	Edit Delete Disable	Events	system	54 MB	488.28 GB	616K	17 days ago	a few seconds ago	$SPLUNK_DB/_internaldb/db	N/A
_introspection	Edit Delete Disable	Events	system	28 MB	488.28 GB	20K	13 days ago	a few seconds ago	$SPLUNK_DB/_introspection/db	N/A

- Set the name to `devicetrust` and all other options are optional.



New Index ✕

General Settings

Index Name: devicetrust

Set index name (e.g., INDEX_NAME). Search using index=INDEX_NAME.

Index Data Type: [✓ Events] Metrics

The type of data to store (event-based or metrics).

Home Path: optional

Hot/warm db path. Leave blank for default ($SPLUNK_DB/INDEX_NAME/db).

Cold Path: optional

Cold db path. Leave blank for default ($SPLUNK_DB/INDEX_NAME/colddb).

Thawed Path: optional

Thawed/resurrected db path. Leave blank for default ($SPLUNK_DB/INDEX_NAME/thaweddb).

Data Integrity Check: Enable [✓ Disable]

Enable this if you want Splunk to compute hashes on every slice of your data for the purpose of data integrity.

Max Size of Entire Index: 500 GB ▾

Maximum target size of entire index.

Max Size of Hot/Warm/Cold Bucket: auto GB ▾

Maximum target size of buckets. Enter 'auto_high_volume' for high-volume indexes.

Frozen Path: optional

Frozen bucket archive path. Set this if you want Splunk to automatically archive frozen buckets.

App: Search & Reporting ▾

Storage Optimization

Tsidx Retention Policy: Enable Reduction [✓ Disable Reduction]

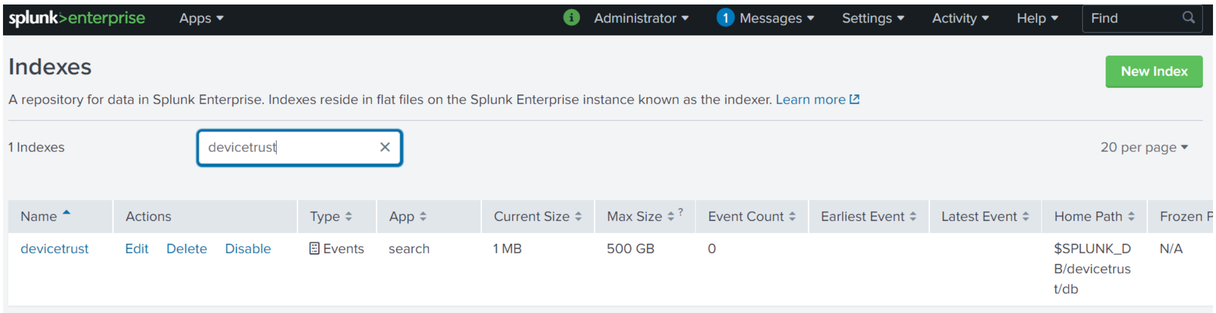
Warning: Do not enable reduction without understanding the full implications. It is extremely difficult to rebuild reduced buckets. Learn More

Reduce tsidx files older than: Days ▾

Age is determined by the latest event in a bucket.

Save Cancel

- Click Save and the index will be created.



Indexes

A repository for data in Splunk Enterprise. Indexes reside in flat files on the Splunk Enterprise instance known as the indexer. Learn more

1 Indexes

Name	Actions	Type	App	Current Size	Max Size	Event Count	Earliest Event	Latest Event	Home Path	Frozen P
devicetrust	Edit Delete Disable	Events	search	1 MB	500 GB	0			$SPLUNK_DB/devicetrust/db	N/A

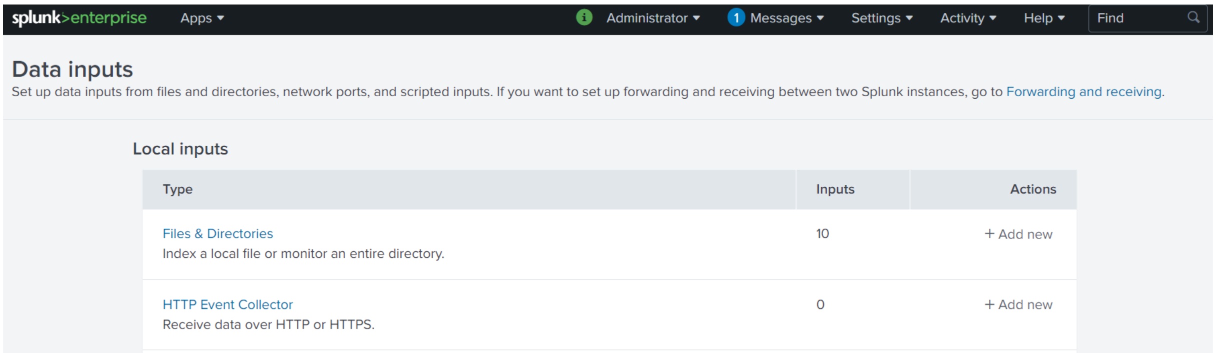
Step 1.2: Creating the Splunk Index by installing the app

To create the index from the app, please refer to Step 3.2: Installing the Splunk app within this guide. The app `dt_index` does not contain any elements besides the index definition for the index `devicetrust`.

Step 2: Creating the Splunk Data Inputs

Data is sent to the Splunk server by using REST API calls. Splunk needs to be configured to accept http-based inputs. An authentication token is generated, that will be added to the deviceTRUST Console configuration later.

- Open your splunk management GUI and navigate to `Settings\Data Inputs`.



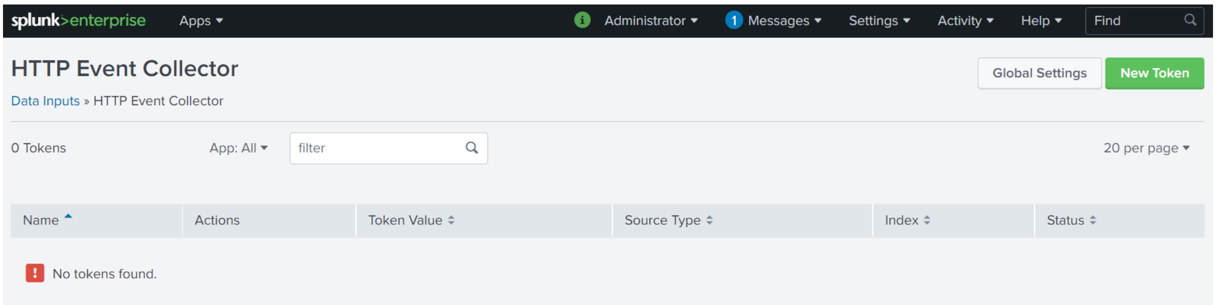
Data inputs

Set up data inputs from files and directories, network ports, and scripted inputs. If you want to set up forwarding and receiving between two Splunk instances, go to Forwarding and receiving.

Local inputs

Type	Inputs	Actions
Files & Directories Index a local file or monitor an entire directory.	10	+ Add new
HTTP Event Collector Receive data over HTTP or HTTPS.	0	+ Add new

- Select `HTTP Event Collector`
- Click 'New Token



HTTP Event Collector

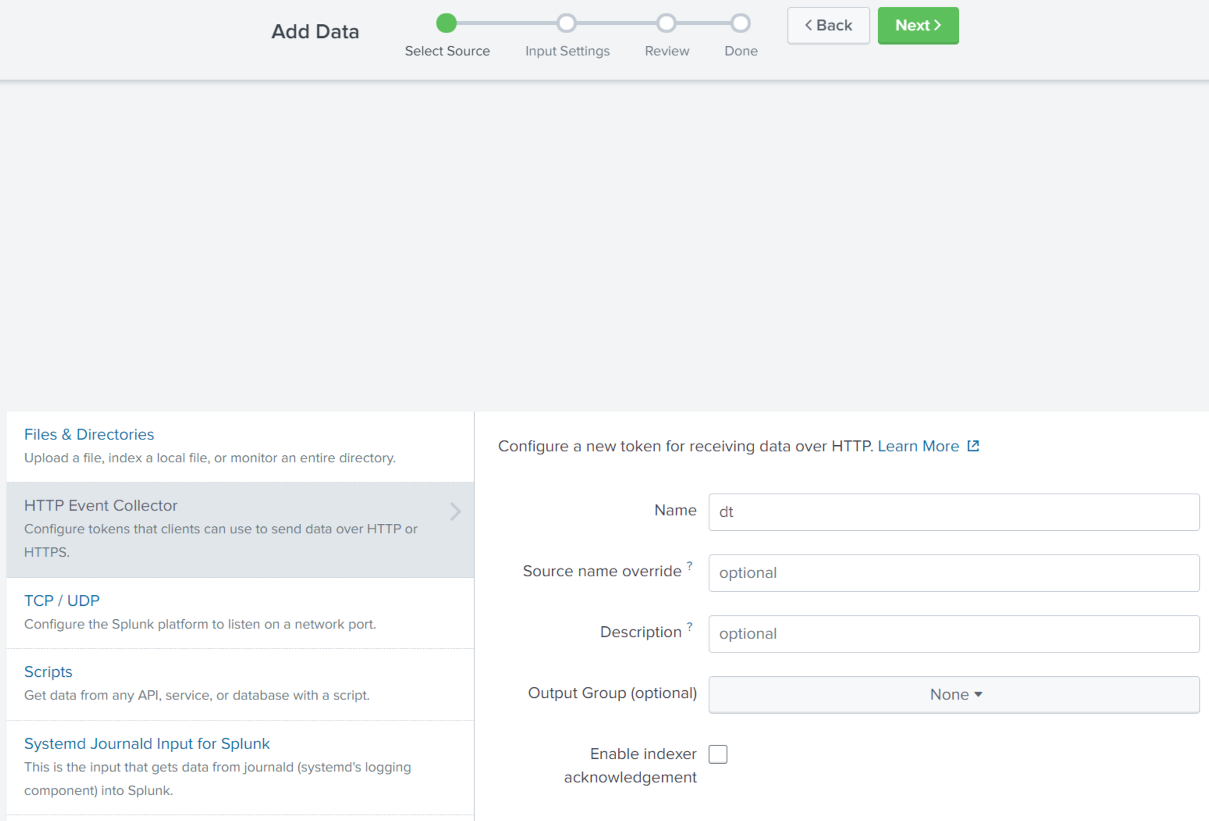
Data Inputs » HTTP Event Collector

0 Tokens

Name	Actions	Token Value	Source Type	Index	Status

! No tokens found.

- Set a `name` of your choice.
- All other settings are optional.



Files & Directories
Upload a file, index a local file, or monitor an entire directory.

HTTP Event Collector
Configure tokens that clients can use to send data over HTTP or HTTPS.

TCP / UDP
Configure the Splunk platform to listen on a network port.

Scripts
Get data from any API, service, or database with a script.

Systemd Journald Input for Splunk
This is the input that gets data from journald (systemd's logging component) into Splunk.

Configure a new token for receiving data over HTTP. Learn More

Name: dt

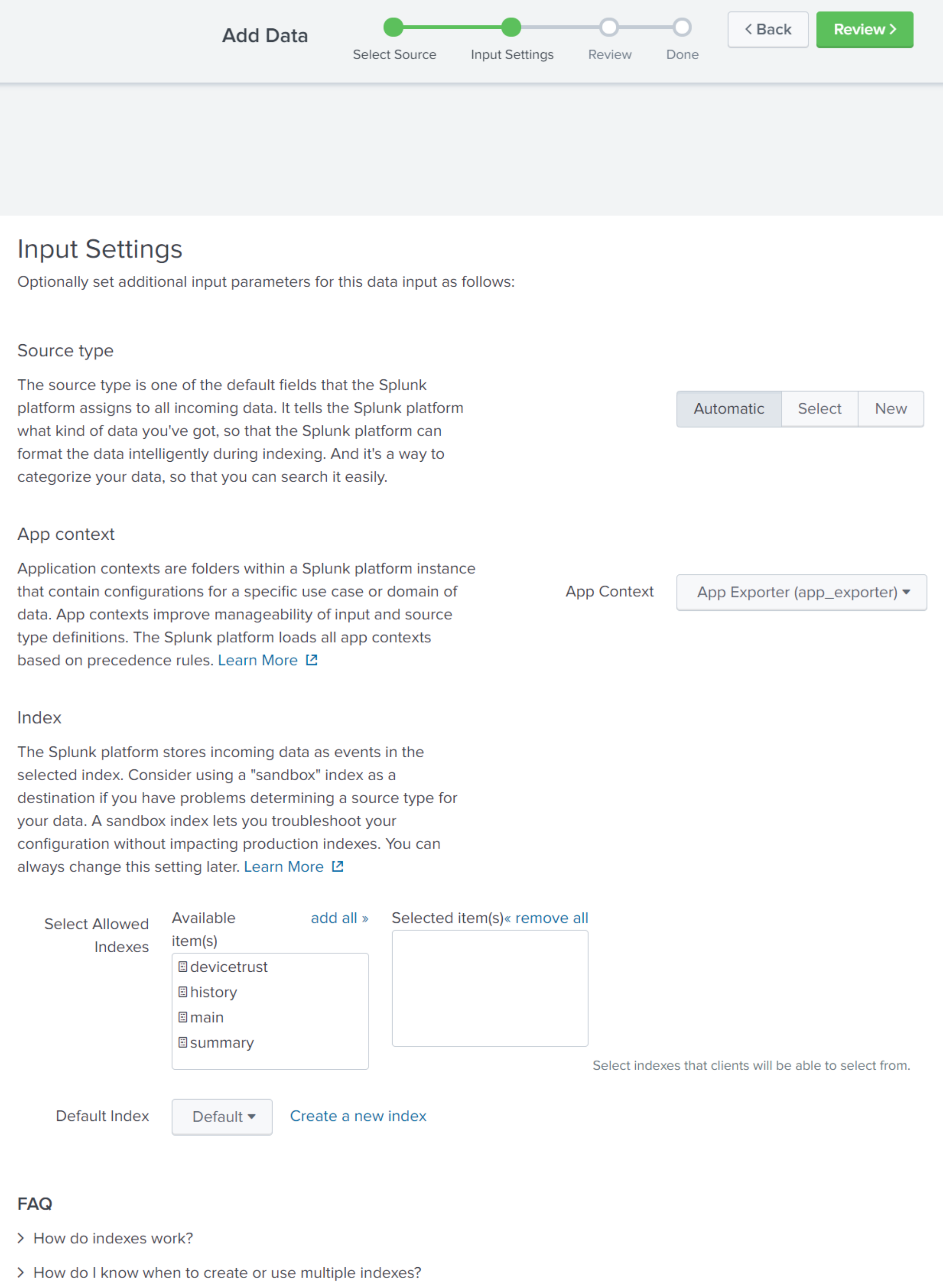
Source name override: optional

Description: optional

Output Group (optional): None

Enable indexer acknowledgement □

`Input settings` does, for example, allow to restrict access for this data input to certain indexes. Any of these settings may be relevant for your environment. The function of the deviceTRUST reports will not be affected by setting them.



Input Settings

Optionally set additional input parameters for this data input as follows:

Source type

The source type is one of the default fields that the Splunk platform assigns to all incoming data. It tells the Splunk platform what kind of data you've got, so that the Splunk platform can format the data intelligently during indexing. And it's a way to categorize your data, so that you can search it easily.

App context

Application contexts are folders within a Splunk platform instance that contain configurations for a specific use case or domain of data. App contexts improve manageability of input and source type definitions. The Splunk platform loads all app contexts based on precedence rules. Learn More

App Context: App Exporter (app_exporter) ▾

Index

The Splunk platform stores incoming data as events in the selected index. Consider using a "sandbox" index as a destination if you have problems determining a source type for your data. A sandbox index lets you troubleshoot your configuration without impacting production indexes. You can always change this setting later. Learn More

Select Allowed Indexes

- devicetrust
- history
- main
- summary

Select indexes that clients will be able to select from.

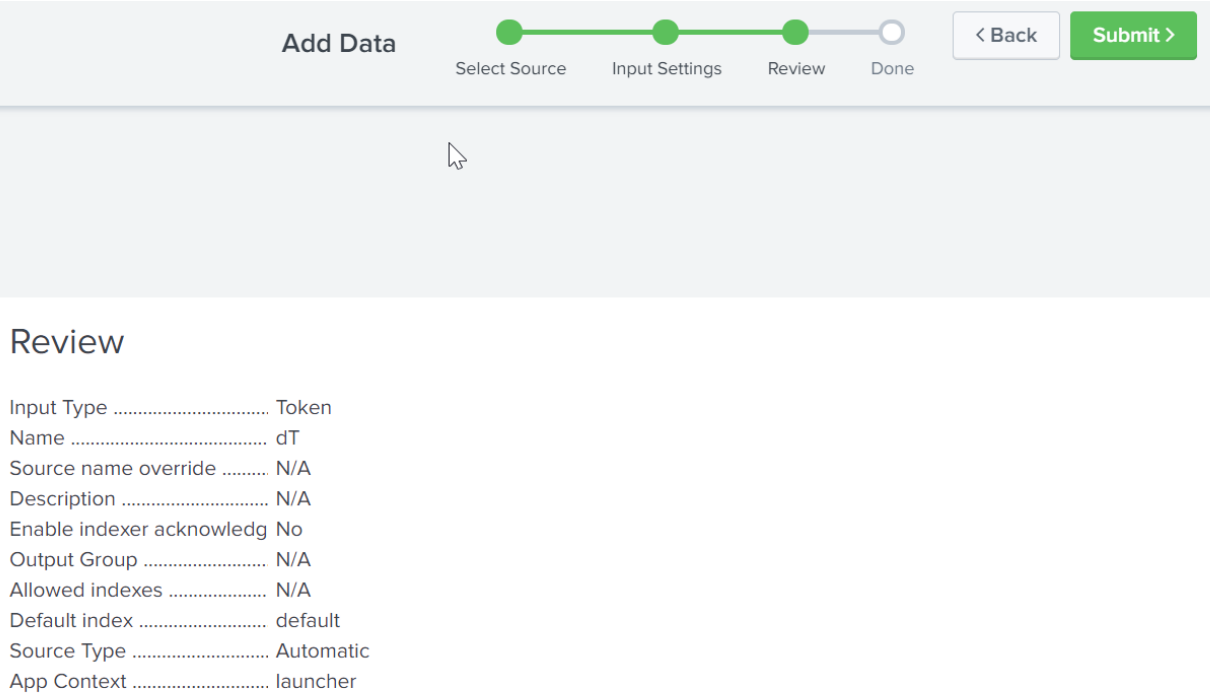
Default Index: Default ▾

FAQ

> How do indexes work?

> How do I know when to create or use multiple indexes?

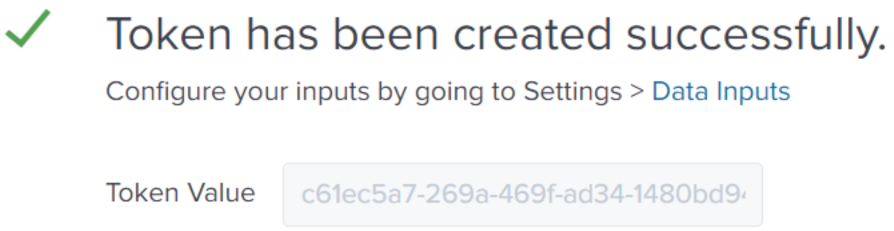
- Review the Settings.
- Click `Submit`.



Review

Input Type .... Token
Name .... dT
Source name override .... N/A
Description .... N/A
Enable indexer acknowledg No
Output Group .... N/A
Allowed indexes .... N/A
Default index .... default
Source Type .... Automatic
App Context .... launcher

- The created token is shown.

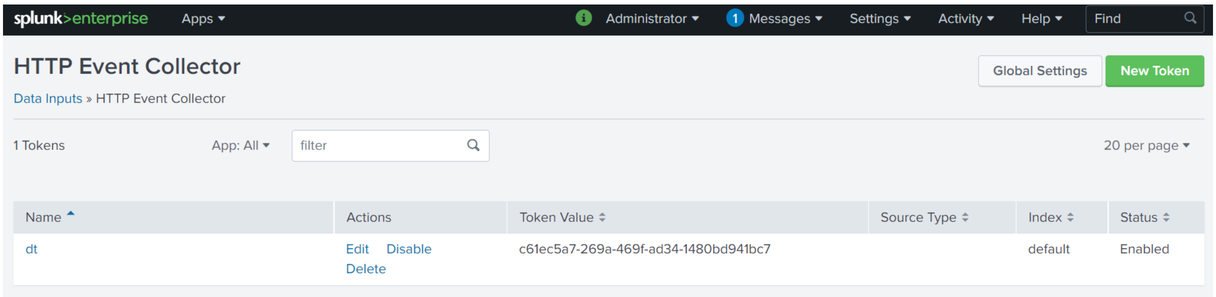


Token has been created successfully.

Configure your inputs by going to Settings > Data Inputs

Token Value c61ec5a7-269a-469f-ad34-1480bd9

- The created token is also be displayed in the token overview page.



HTTP Event Collector

Data Inputs » HTTP Event Collector

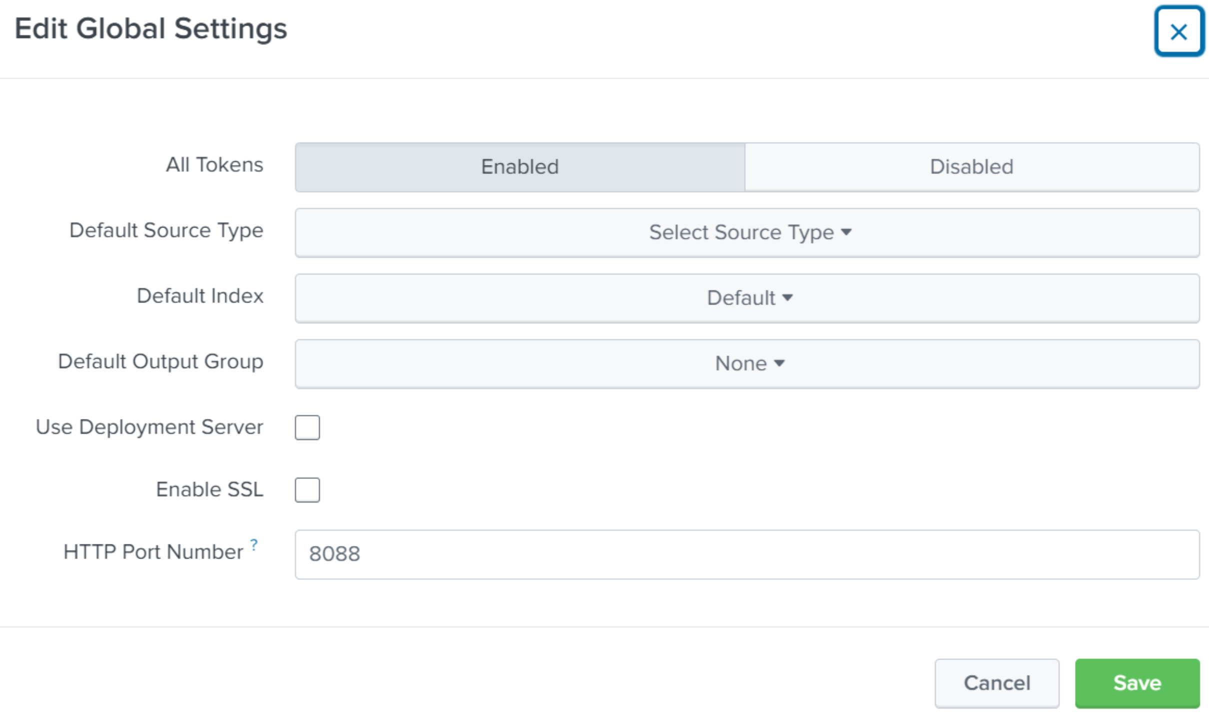
1 Tokens App: All ▾ filter 20 per page ▾

Name ▴	Actions	Token Value ⇕	Source Type ⇕	Index ⇕	Status ⇕
dt	Edit Disable Delete	c61ec5a7-269a-469f-ad34-1480bd941bc7		default	Enabled

Additionally, the http input method has to be configured. In the most basic configuration, we make sure SSL is not active and all tokens are enabled.

These settings may differ in your environment. The function of the deviceTRUST reports will not be affected by setting them accordingly.

- Open your splunk management GUI and navigate to `Settings\Data Inputs\HTTP Data Collector`
- Click `Global Settings`
- Set `All Tokens` to Enabled.
- Set `Enable SSL` to Off.



Edit Global Settings

All Tokens: Enabled | Disabled

Default Source Type: Select Source Type ▾

Default Index: Default ▾

Default Output Group: None ▾

Use Deployment Server: □

Enable SSL: □

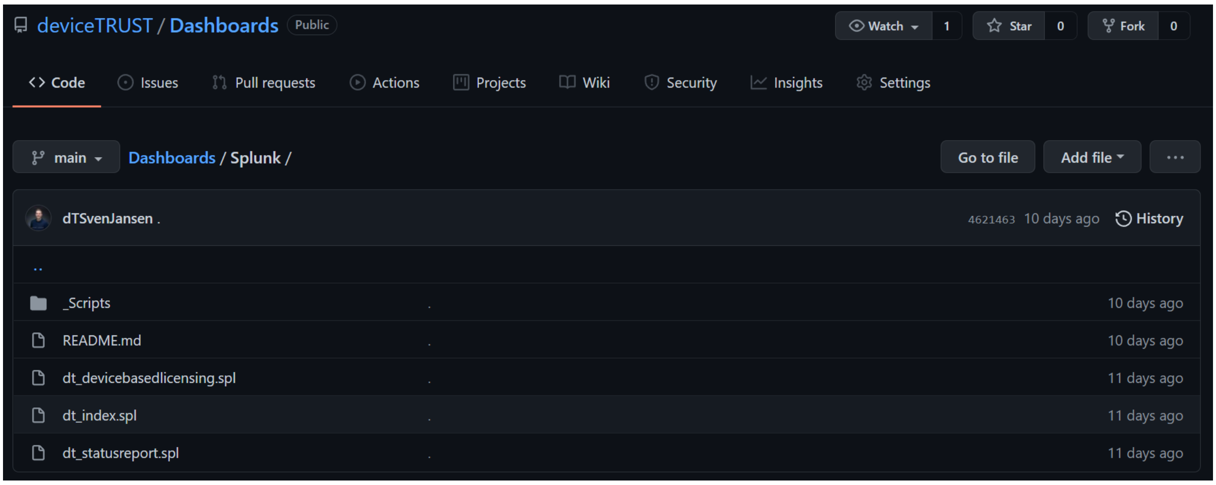
HTTP Port Number ?: 8088

Step 3: Importing the Splunk app

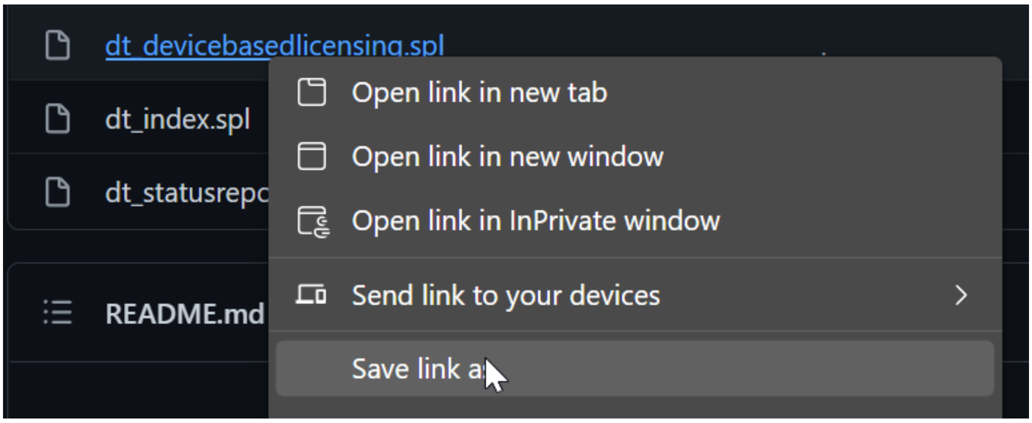
Step 3.1: Downloading the Splunk app

The deviceTRUST reports are delivered as Splunk apps. The apps is available from the deviceTRUST GitHub repository .

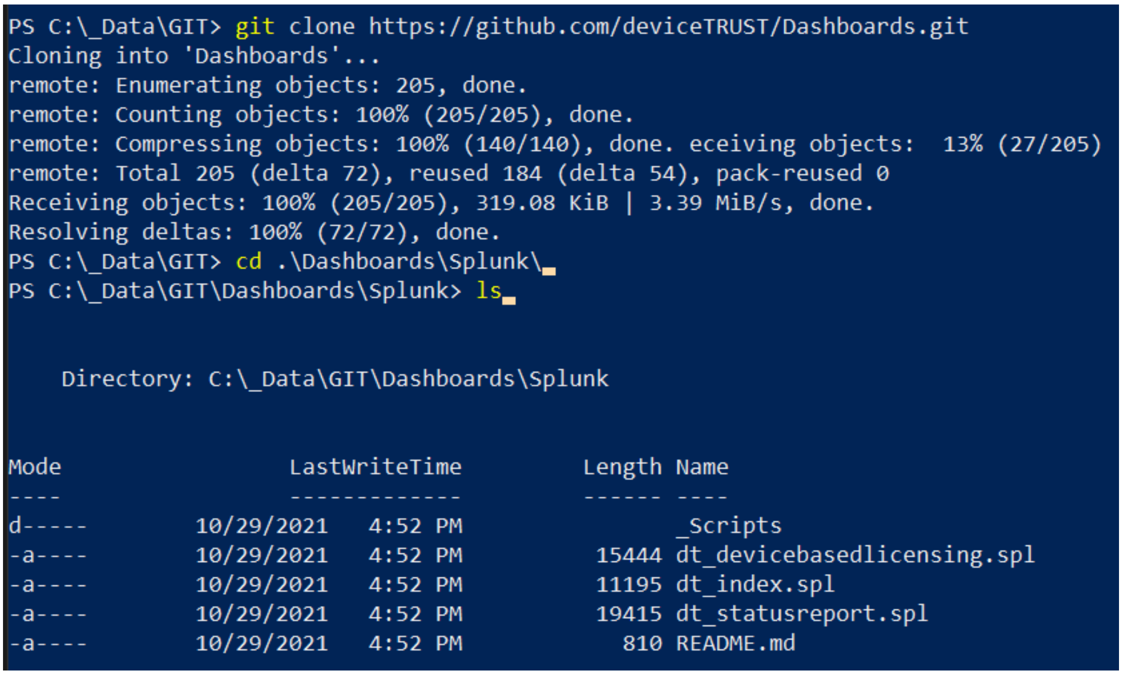
- Navigate to the repository and find the Splunk apps.



- The apps are provided as "spl"files which should be downloaded.



- Alternatively the "spl"files can be synchronized via the GIT command line.

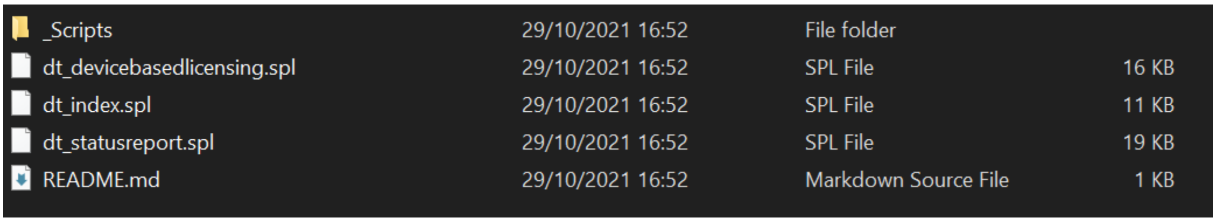


```
PS C:\_Data\GIT> git clone https://github.com/deviceTRUST/Dashboards.git
Cloning into 'Dashboards'...
remote: Enumerating objects: 205, done.
remote: Counting objects: 100% (205/205), done.
remote: Compressing objects: 100% (140/140), done. eceiving objects:  13% (27/205)
remote: Total 205 (delta 72), reused 184 (delta 54), pack-reused 0
Receiving objects: 100% (205/205), 319.08 KiB | 3.39 MiB/s, done.
Resolving deltas: 100% (72/72), done.
PS C:\_Data\GIT> cd .\Dashboards\Splunk\
PS C:\_Data\GIT\Dashboards\Splunk> ls


    Directory: C:\_Data\GIT\Dashboards\Splunk


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        10/29/2021   4:52 PM                _Scripts
-a----        10/29/2021   4:52 PM          15444 dt_devicebasedlicensing.spl
-a----        10/29/2021   4:52 PM          11195 dt_index.spl
-a----        10/29/2021   4:52 PM          19415 dt_statusreport.spl
-a----        10/29/2021   4:52 PM            810 README.md
```

- With the apps available locally, they can be imported into Splunk.

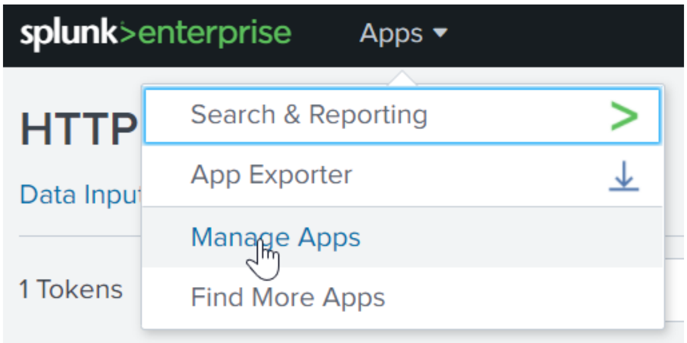


_Scripts	29/10/2021 16:52	File folder	
dt_devicebasedlicensing.spl	29/10/2021 16:52	SPL File	16 KB
dt_index.spl	29/10/2021 16:52	SPL File	11 KB
dt_statusreport.spl	29/10/2021 16:52	SPL File	19 KB
README.md	29/10/2021 16:52	Markdown Source File	1 KB

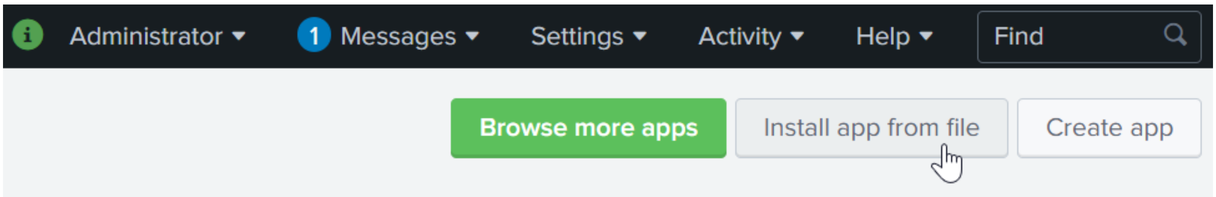
Step 3.2: Installing the Splunk app

All three deviceTRUST apps are installed the same way. Thus, the app installation is described by using one example.

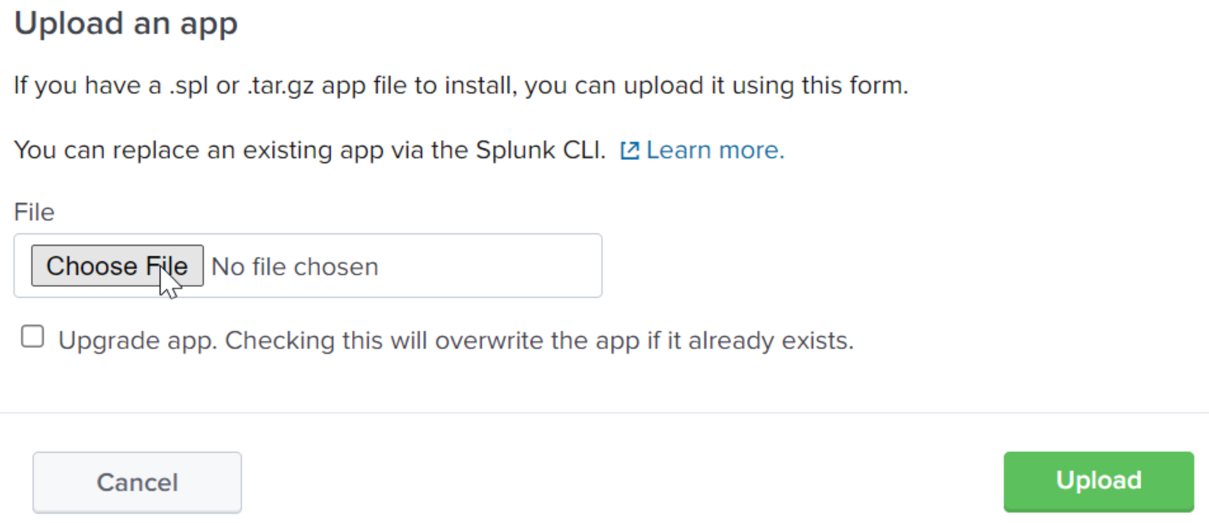
- Open your Splunk management console.
- Click `Manage Apps` in the apps menu.



- Click `Install app from file`.



- Click `Choose File`.



Upload an app

If you have a .spl or .tar.gz app file to install, you can upload it using this form.

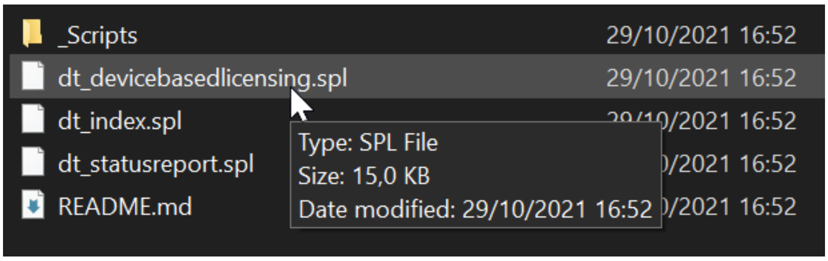
You can replace an existing app via the Splunk CLI. Learn more.

File

Choose File No file chosen

□ Upgrade app. Checking this will overwrite the app if it already exists.

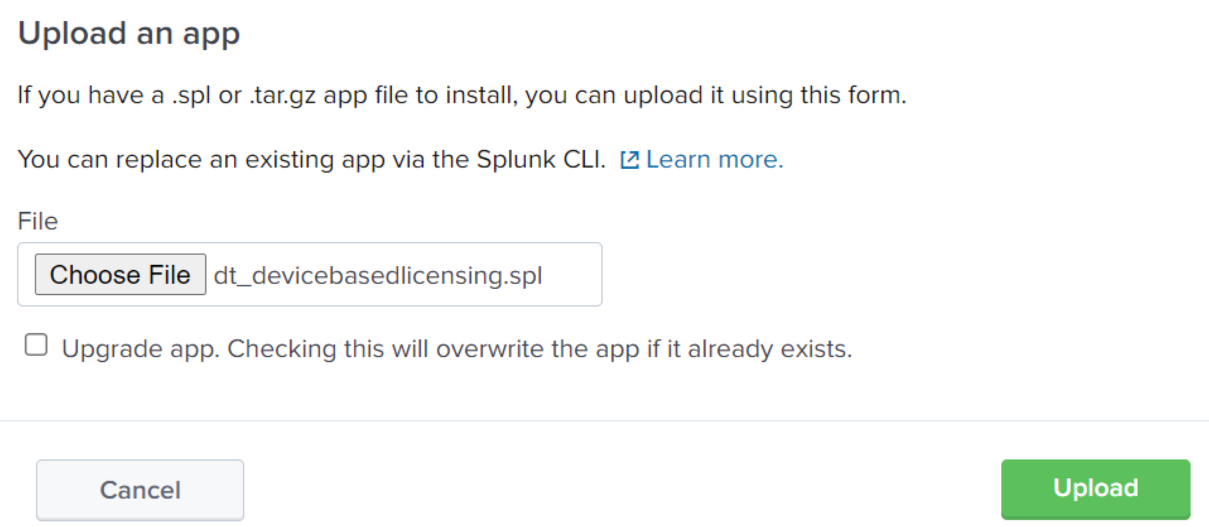
- Select your app file.



```
_Scripts                      29/10/2021 16:52
dt_devicebasedlicensing.spl   29/10/2021 16:52
dt_index.spl                  29/10/2021 16:52
dt_statusreport.spl           /2021 16:52
README.md                     /2021 16:52
```

Type: SPL File
Size: 15,0 KB
Date modified: 29/10/2021 16:52

- Confirming your selection.
- Optionally select to upgrade apps, if applicable.
- Click `Upload`.



Upload an app

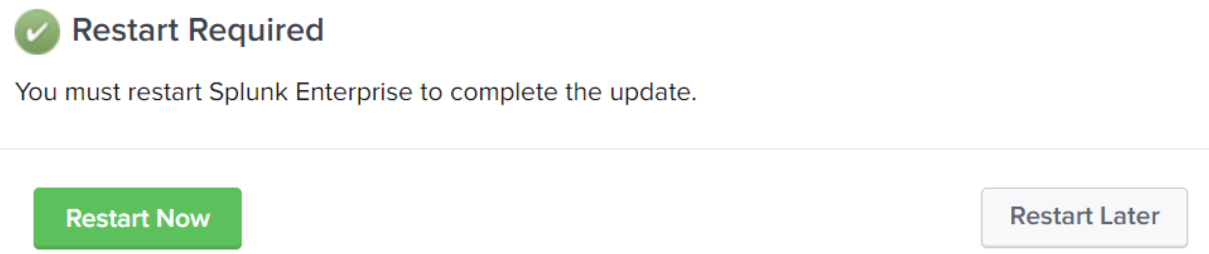
If you have a .spl or .tar.gz app file to install, you can upload it using this form.

You can replace an existing app via the Splunk CLI. Learn more.

File: dt_devicebasedlicensing.spl

□ Upgrade app. Checking this will overwrite the app if it already exists.

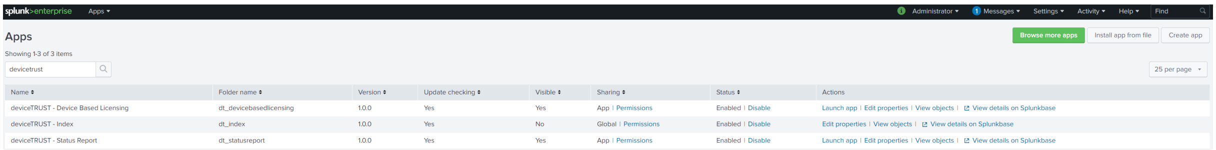
- Splunk will ask to restart the service. This is only required after importing the last app.
- Choose `Restart Now` or `Restart Later` accordingly.



Restart Required

You must restart Splunk Enterprise to complete the update.

- The menu `Apps\Manage Apps` displays all apps that are installed in your Splunk environment.



Apps

Showing 1-3 of 3 items

devicetrust

Name	Folder name	Version	Update checking	Visible	Sharing	Status	Actions
deviceTRUST - Device Based Licensing	dt_devicebasedlicensing	1.0.0	Yes	Yes	App | Permissions	Enabled | Disable	Launch app | Edit properties | View objects | View details on Splunkbase
deviceTRUST - Index	dt_index	1.0.0	Yes	No	Global | Permissions	Enabled | Disable	Edit properties | View objects | View details on Splunkbase
deviceTRUST - Status Report	dt_statusreport	1.0.0	Yes	Yes	App | Permissions	Enabled | Disable	Launch app | Edit properties | View objects | View details on Splunkbase

Step 4: Configuring deviceTRUST

After the the index has been created, the data input object added and all apps have been imported, Splunk is ready to accept, store and compute data for the deviceTRUST reports.

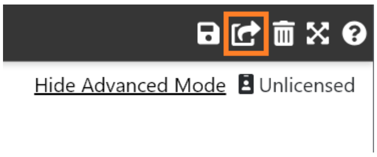
As both reports `Device-Based Licensing` and `Status Report` differ in their details, both are described here separately.

Step 4.1: The Device-Based Licensing Report

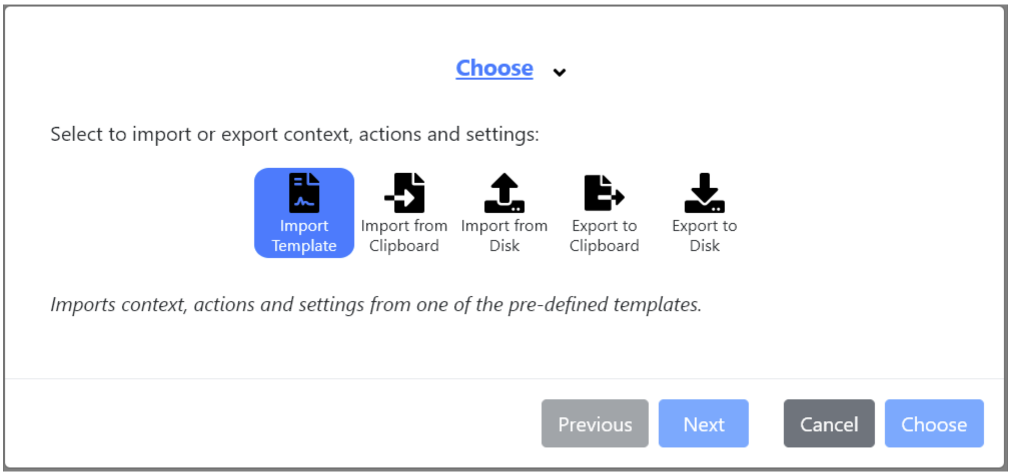
This step describes the configuration to be added to the deviceTRUST Console to send `Device-Based Licensing` data to Splunk.

The integrated templates contain all elements that are required to fully configure the agent for the Device-Based Licensing of five example applications. These five example applications can be easily edited for your own applications, or cloned to represent new applications. The elements are contexts, actions, messages and settings.

- Open the `deviceTRUST Console`.
- Click `Sharing` in the top right menu. You may need to click `Show Advanced View` if this button is not visible.



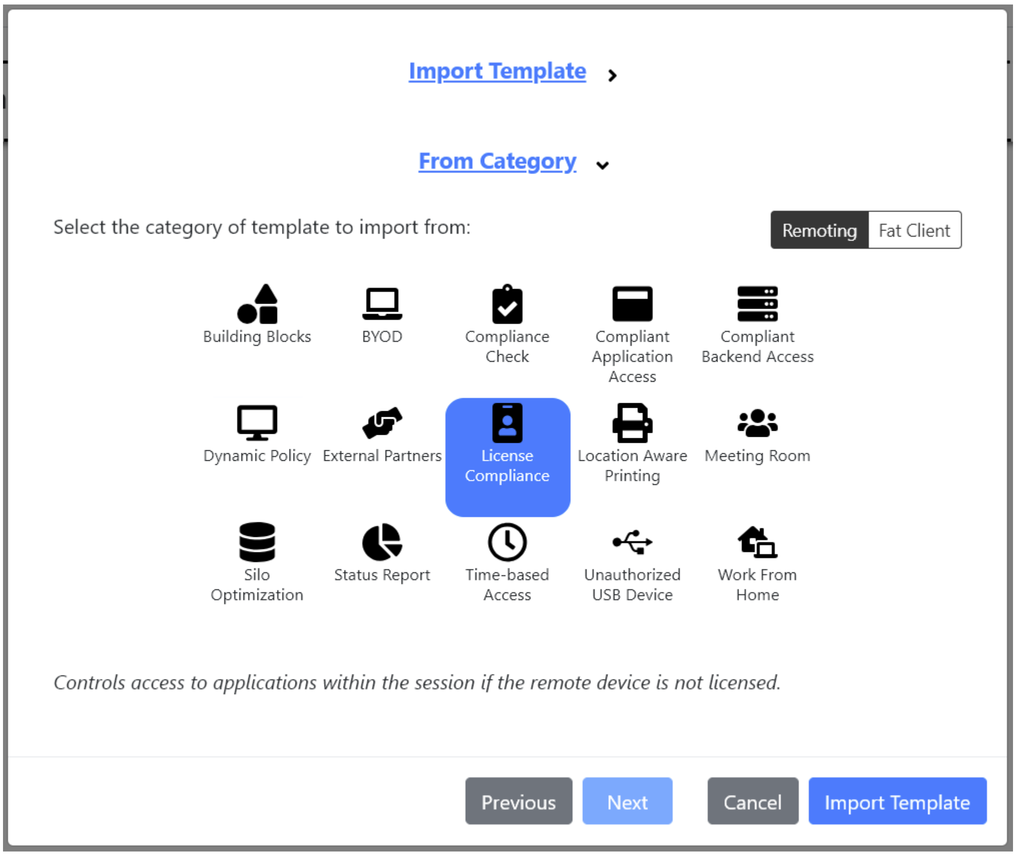
- Select `Import Template`



Select to import or export context, actions and settings:

Imports context, actions and settings from one of the pre-defined templates.

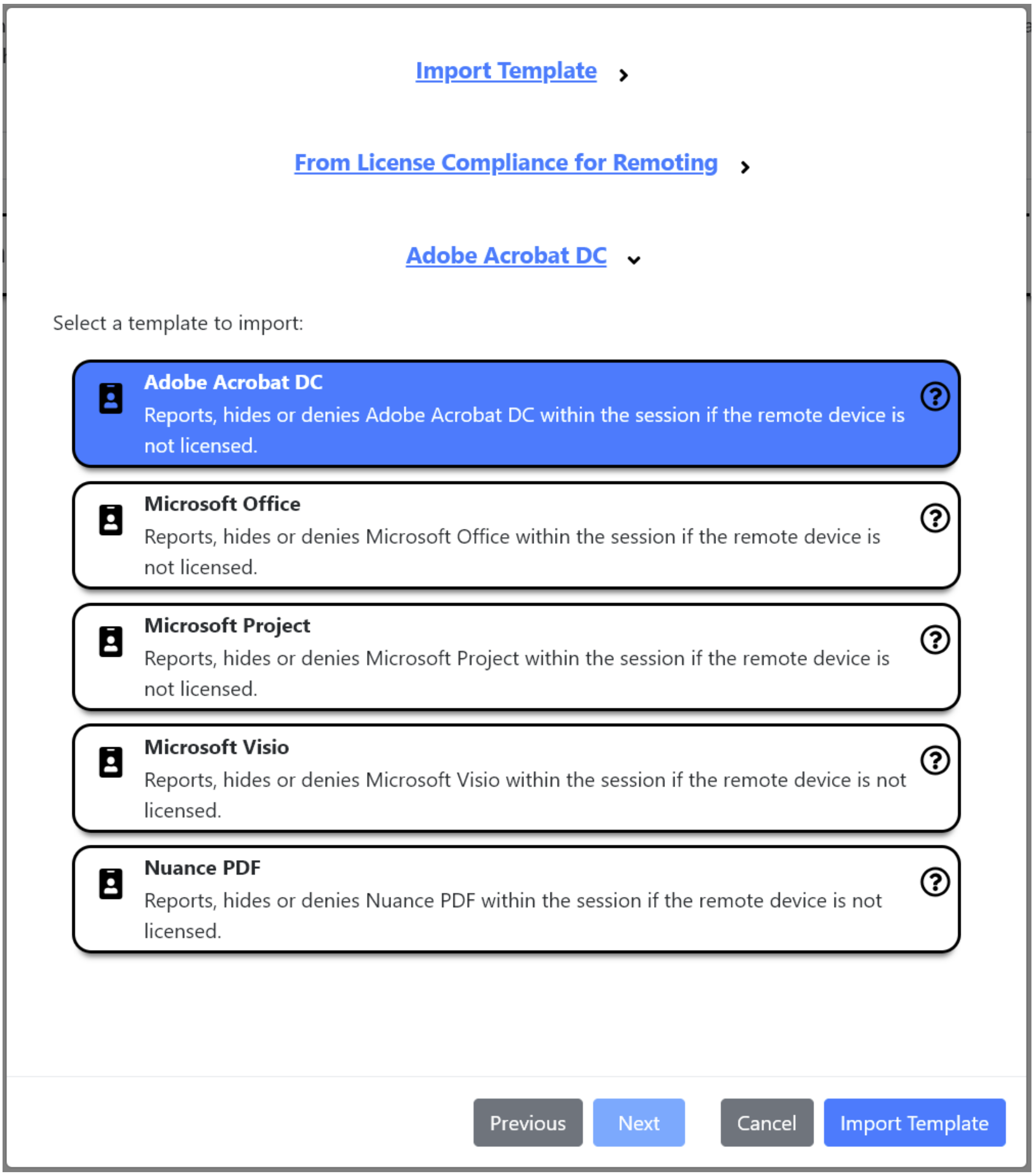
- The report `Device-Based Licensing` can be found within the template category `License Compliance` when `Remoting` is selected.



Select the category of template to import from:

Controls access to applications within the session if the remote device is not licensed.

- The category contains templates for different example applications. We use `Adobe Acrobat DC` as an example here.



Import Template ›

From License Compliance for Remoting ›

Adobe Acrobat DC ⌄

Select a template to import:

Adobe Acrobat DC
Reports, hides or denies Adobe Acrobat DC within the session if the remote device is not licensed.

Microsoft Office
Reports, hides or denies Microsoft Office within the session if the remote device is not licensed.

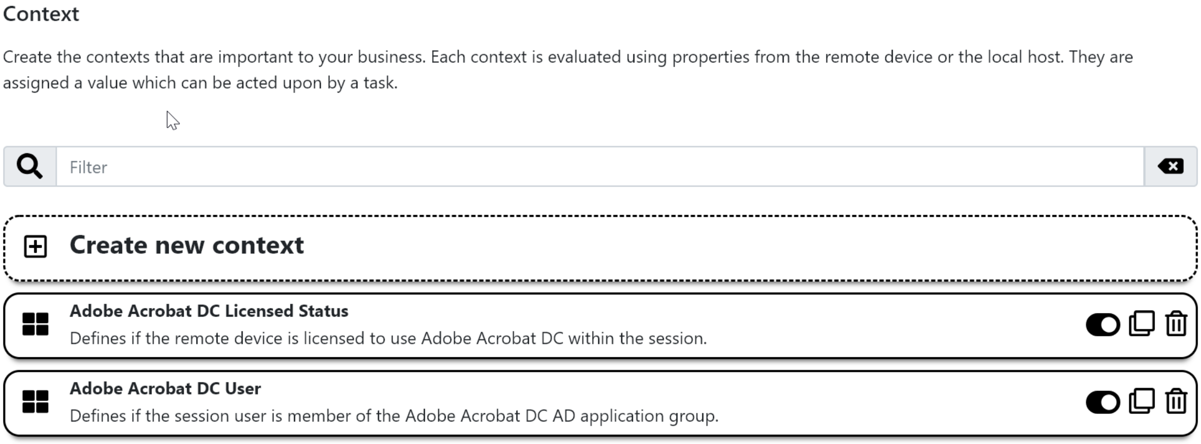
Microsoft Project
Reports, hides or denies Microsoft Project within the session if the remote device is not licensed.

Microsoft Visio
Reports, hides or denies Microsoft Visio within the session if the remote device is not licensed.

Nuance PDF
Reports, hides or denies Nuance PDF within the session if the remote device is not licensed.

Two contexts are included within the template:

- `Adobe Acrobat DC Licensed Status` to evaluate the device license status.
- `Adobe Acrobat DC User` to define if the accessing user is licensed to use the software.



Context

Create the contexts that are important to your business. Each context is evaluated using properties from the remote device or the local host. They are assigned a value which can be acted upon by a task.

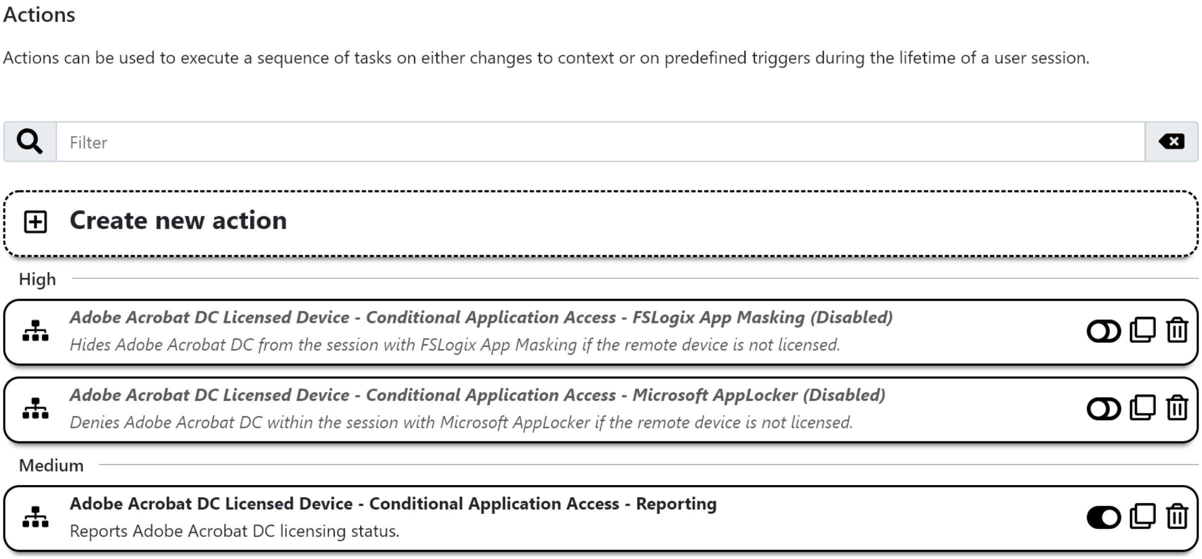
Create new context

Adobe Acrobat DC Licensed Status
Defines if the remote device is licensed to use Adobe Acrobat DC within the session.

Adobe Acrobat DC User
Defines if the session user is member of the Adobe Acrobat DC AD application group.

Three actions are included within the template:

- `Adobe Acrobat DC Licensed Device - Conditional Application Access - FSLogix App Masking` is used for application control via `FSLogix App Masking` and can be ignored or deleted for the reporting use case.
- `Adobe Acrobat DC Licensed Device - Conditional Application Access - Microsoft AppLocker` is used for application control via `Microsoft AppLocker` and can be ignored or deleted for the reporting use case.
- `Adobe Acrobat DC Licensed Device - Conditional Application Access - Reporting` the only action required for reporting.



Actions

Actions can be used to execute a sequence of tasks on either changes to context or on predefined triggers during the lifetime of a user session.

Create new action

High

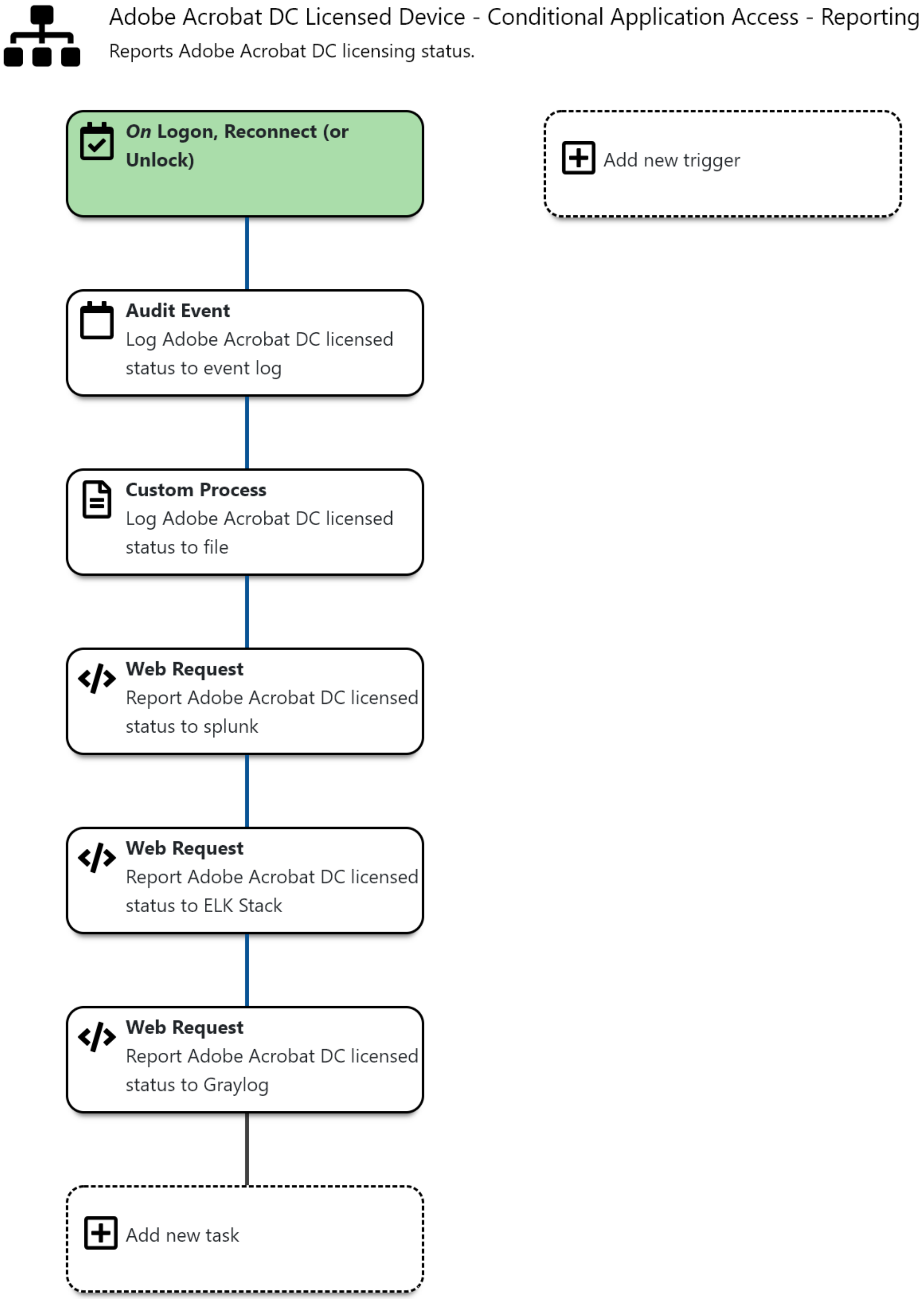
Adobe Acrobat DC Licensed Device - Conditional Application Access - FSLogix App Masking (Disabled)
Hides Adobe Acrobat DC from the session with FSLogix App Masking if the remote device is not licensed.

Adobe Acrobat DC Licensed Device - Conditional Application Access - Microsoft AppLocker (Disabled)
Denies Adobe Acrobat DC within the session with Microsoft AppLocker if the remote device is not licensed.

Medium

Adobe Acrobat DC Licensed Device - Conditional Application Access - Reporting
Reports Adobe Acrobat DC licensing status.

- The action contains uses the `Web Request` task to send data to Splunk. The `Audit Event`, `Custom Process` and also the `Web Request` tasks for ELK Stack and Graylog can be deleted, as we are configuring Splunk here.



Adobe Acrobat DC Licensed Device - Conditional Application Access - Reporting

Reports Adobe Acrobat DC licensing status.

***On* Logon, Reconnect (or Unlock)**

Add new trigger

Audit Event
Log Adobe Acrobat DC licensed status to event log

Custom Process
Log Adobe Acrobat DC licensed status to file

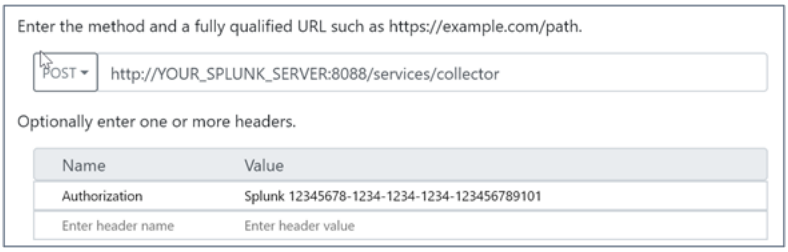
Web Request
Report Adobe Acrobat DC licensed status to splunk

Web Request
Report Adobe Acrobat DC licensed status to ELK Stack

Web Request
Report Adobe Acrobat DC licensed status to Graylog

Add new task

- The Splunk `Web Request` task needs to be edited to suit your environment. If you do not require SSL transport, you'll only have to configure your `server's fqdn` and the `authorization token` (http data input). Make sure to leave the keyword `splunk` and only add/change your authorization token's GUID.



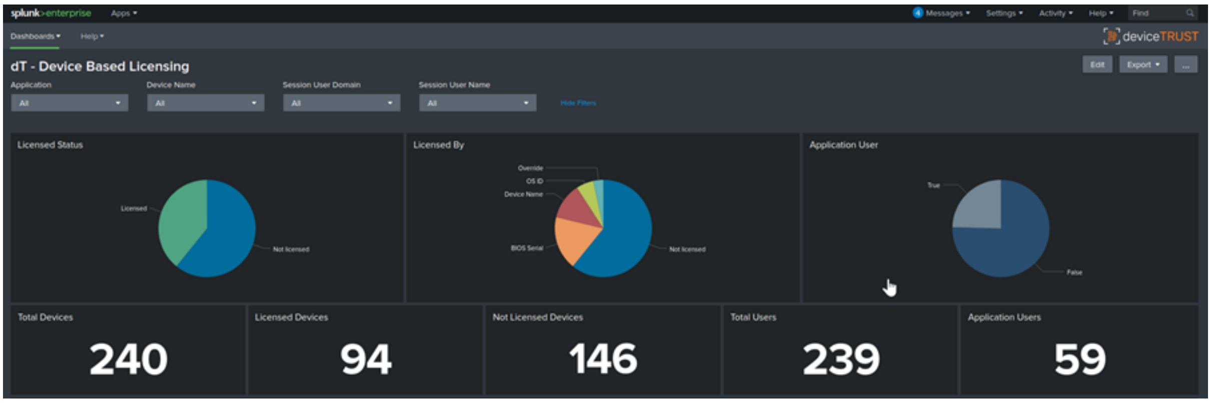
Enter the method and a fully qualified URL such as https://example.com/path.

POST ▾ http://YOUR_SPLUNK_SERVER:8088/services/collector

Optionally enter one or more headers.

Name	Value
Authorization	Splunk 12345678-1234-1234-1234-123456789101
Enter header name	Enter header value

The use case has successfully been configured. deviceTRUST will now send `Device-Based Licensing` data on every access to the Splunk server. The data will be presented using dashboards.

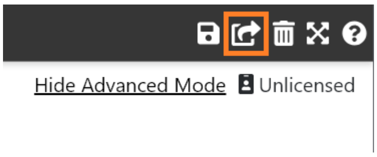


Step 4.2: The Status Report

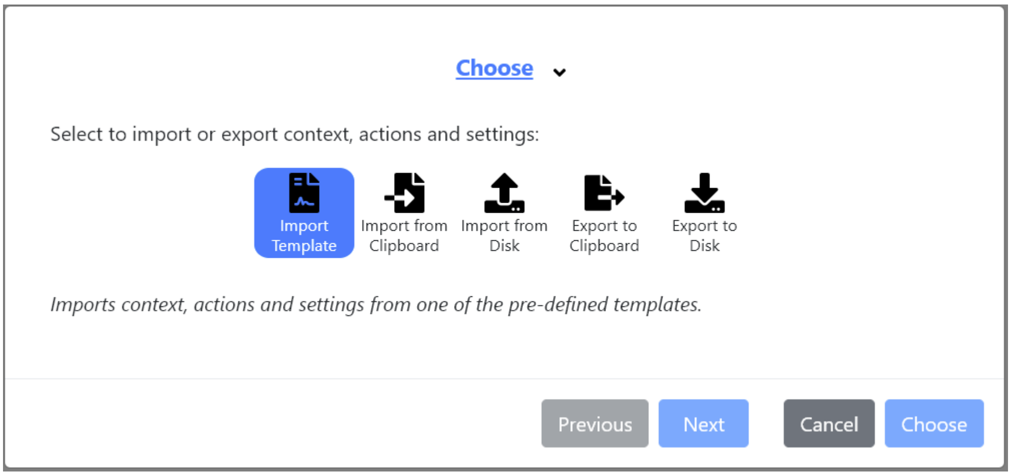
This step describes the configuration, that is to be added to the deviceTRUST console to send `Status Report` data to splunk.

Our integrated templates contain all elements that are required to fully configure the agent for the Device-Based Licensing of five example applications. The elements are contexts, actions, messages and settings.

- Open the deviceTRUST console and click `Sharing` in the top right menu.



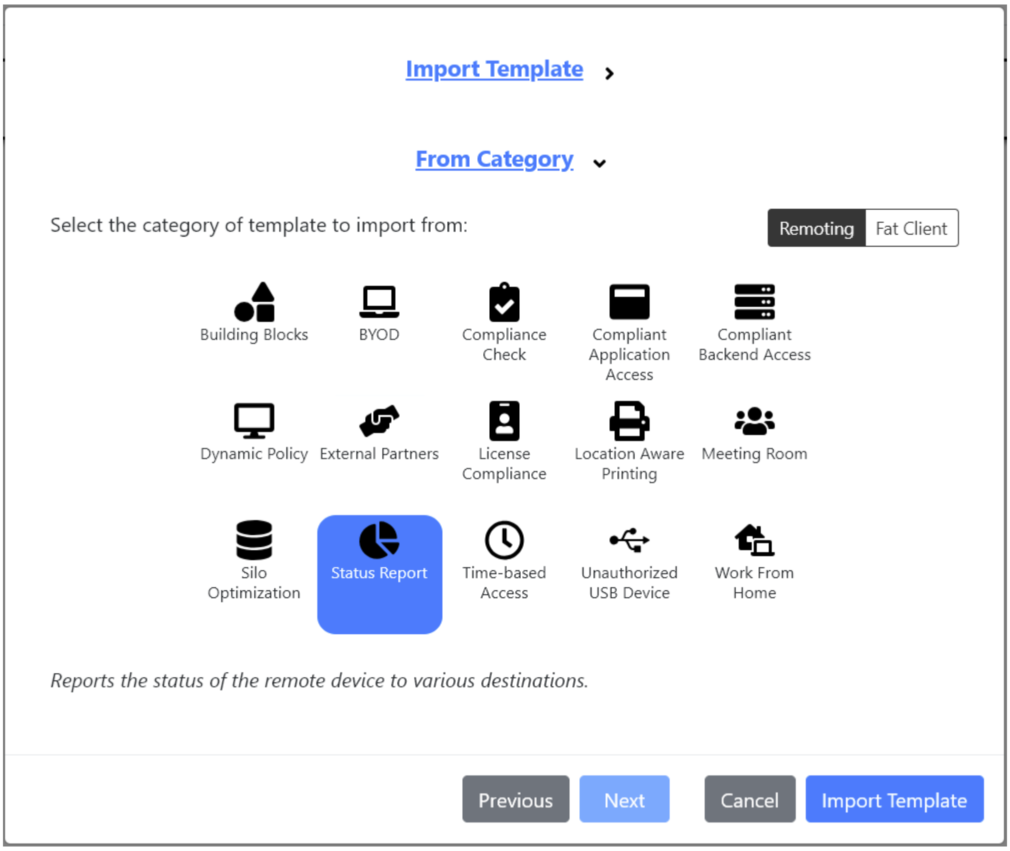
- Select `Import Template`



Select to import or export context, actions and settings:

Imports context, actions and settings from one of the pre-defined templates.

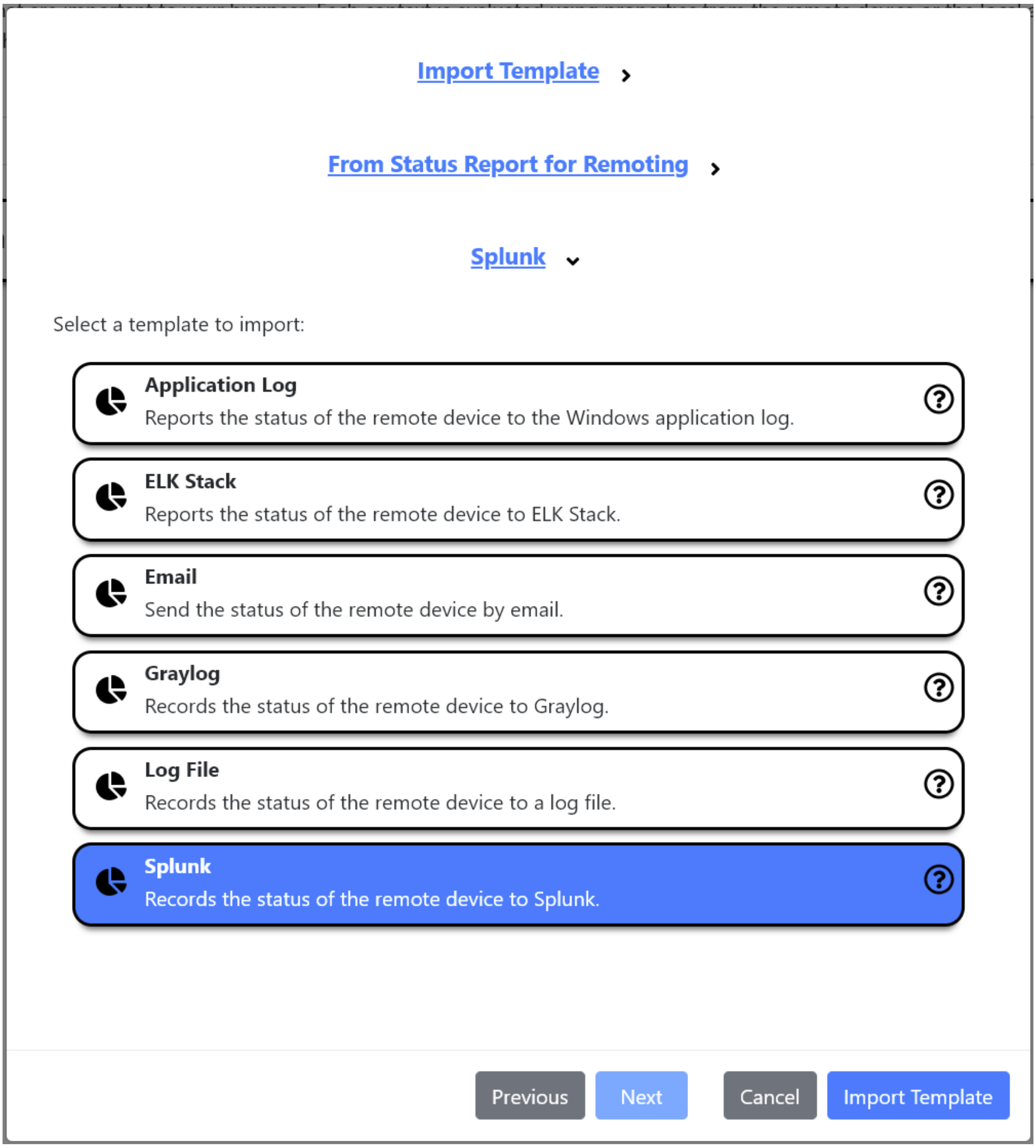
- The `Status Report` template can be found within the template category `Status Report` when `Remoting` is selected.



Select the category of template to import from:

Reports the status of the remote device to various destinations.

- This category contains templates for several ways of storing data. Choose `Splunk`.



Select a template to import:

Application Log
Reports the status of the remote device to the Windows application log.

ELK Stack
Reports the status of the remote device to ELK Stack.

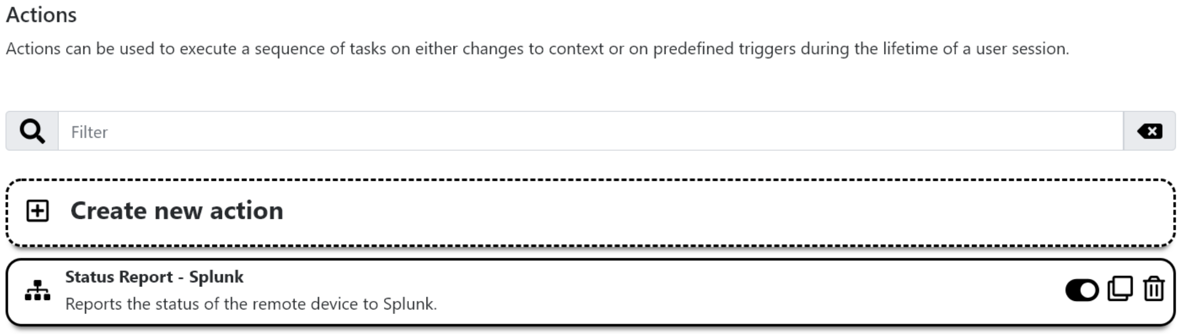
Email
Send the status of the remote device by email.

Graylog
Records the status of the remote device to Graylog.

Log File
Records the status of the remote device to a log file.

Splunk
Records the status of the remote device to Splunk.

- The imported template consists of 50 contexts and one action.
- The Action `Status Report – Splunk` collects all relevant data and sends them over to Splunk.



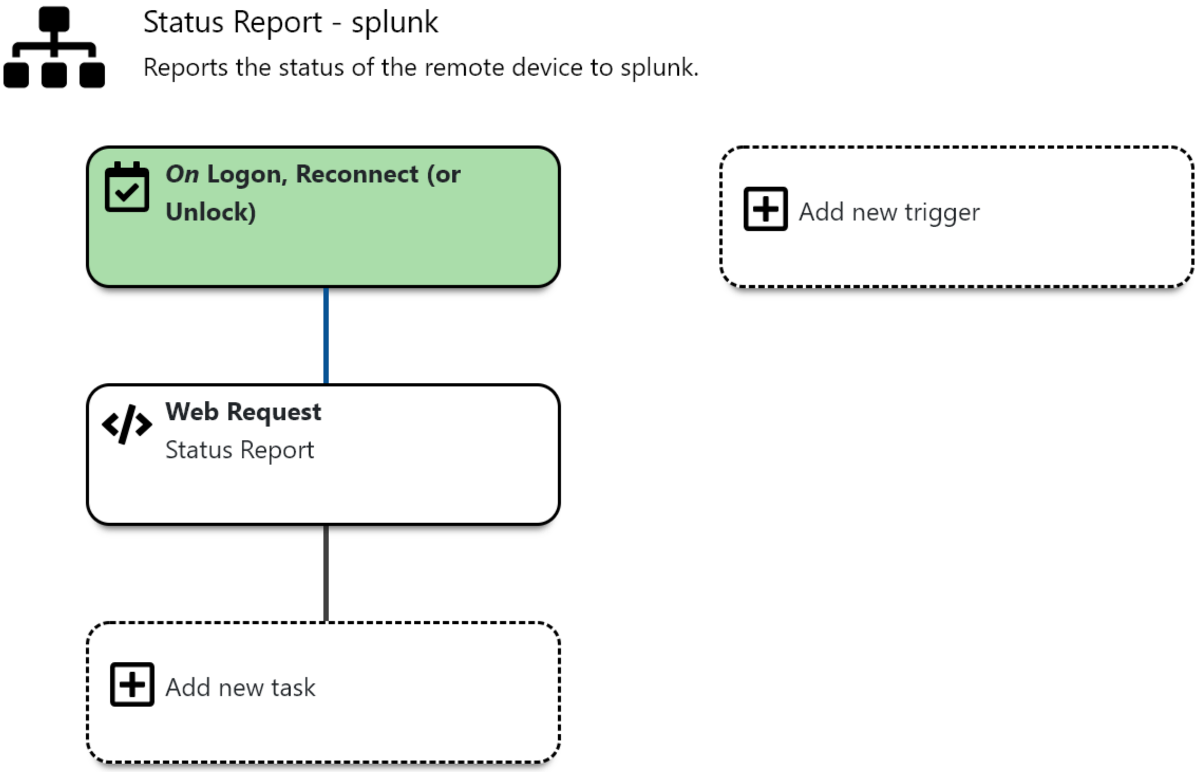
Actions

Actions can be used to execute a sequence of tasks on either changes to context or on predefined triggers during the lifetime of a user session.

Status Report - Splunk

Reports the status of the remote device to Splunk.

- Sending data to Splunk is configured by using a `Web Request` task.



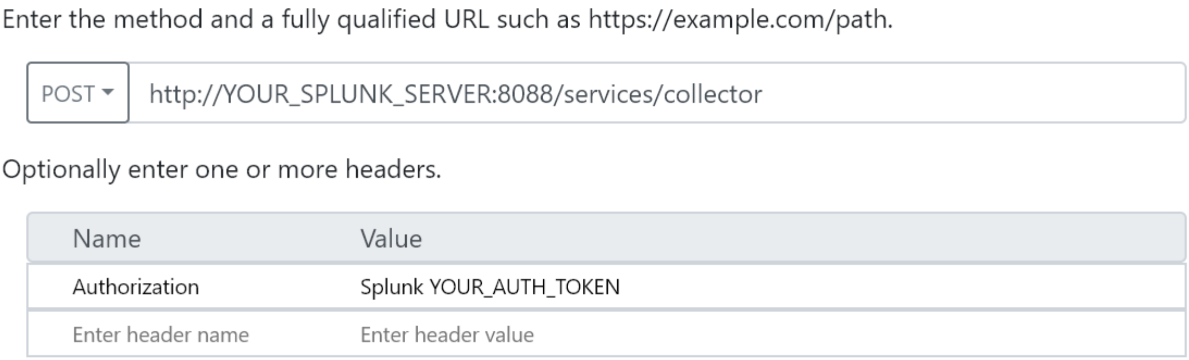
Status Report - splunk

Reports the status of the remote device to splunk.

The Web Request task needs to be edited to suit your environment. If you do not require SSL transport, you'll only have to configure your `server's fqdn` and the `authorization token` (http data input). Make sure to leave the keyword `splunk` and only change your authorization token's GUID.

When executing Web Request task ›

Apply settings ⌄



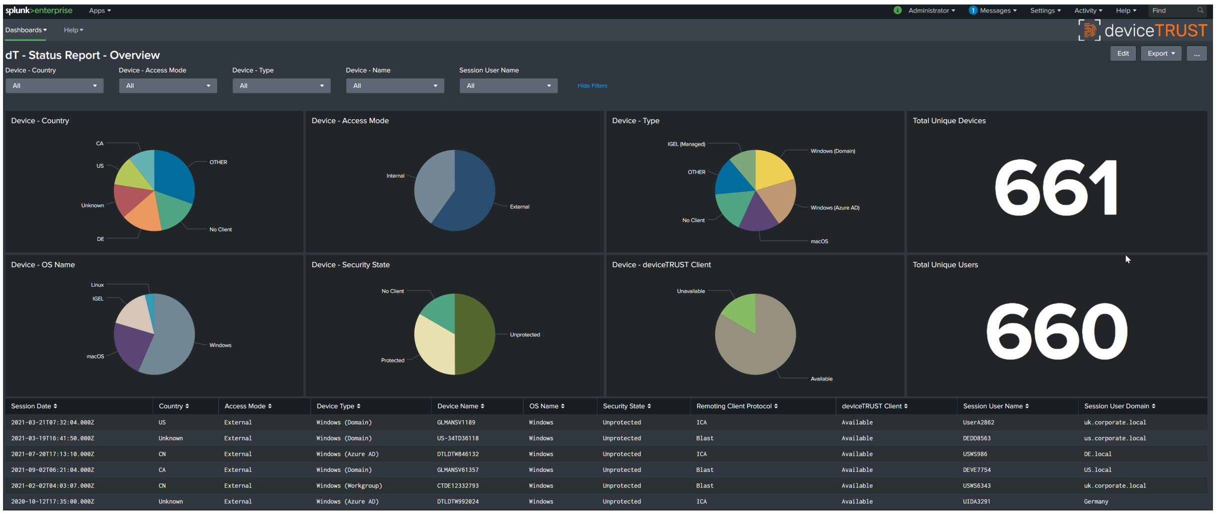
Enter the method and a fully qualified URL such as https://example.com/path.

POST ▾ http://YOUR_SPLUNK_SERVER:8088/services/collector

Optionally enter one or more headers.

Name	Value
Authorization	Splunk YOUR_AUTH_TOKEN
Enter header name	Enter header value

The use case has successfully been configured. deviceTRUST will now send `Status Report` data on every access to the remoting platform to the splunk server. There, the data will be presented using dashboards.



dT - Status Report - Overview

Device - Country: All ▾ Device - Access Mode: All ▾ Device - Type: All ▾ Device - Name: All ▾ Session User Name: All ▾

Total Unique Devices: 661

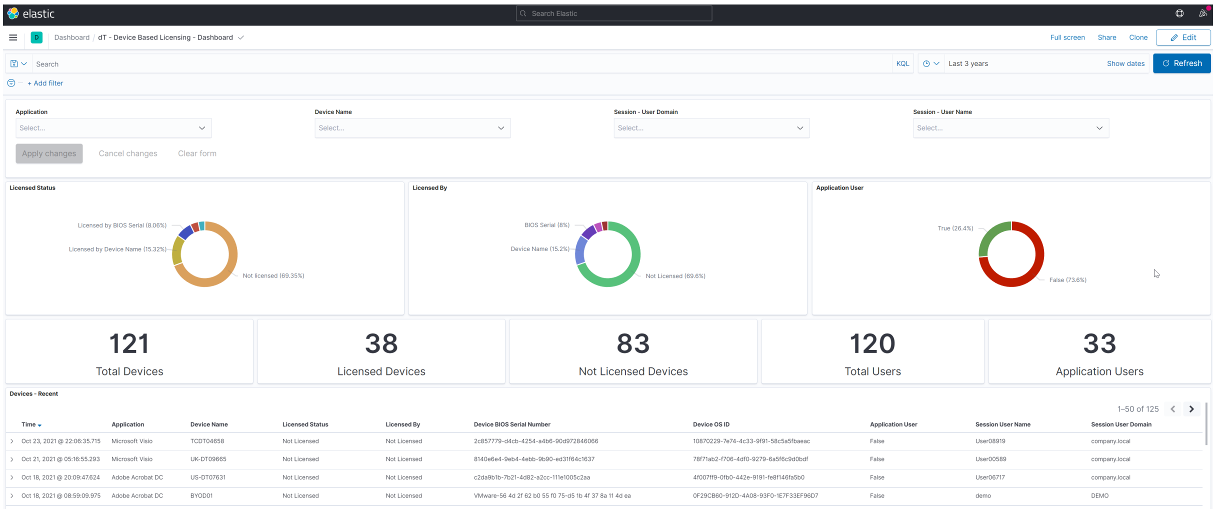
Total Unique Users: 660

Session Date ⬍	Country ⬍	Access Mode ⬍	Device Type ⬍	Device Name ⬍	OS Name ⬍	Security State ⬍	Remoting Client Protocol ⬍	deviceTRUST Client ⬍	Session User Name ⬍	Session User Domain ⬍
2021-03-21T07:32:04.000Z	US	External	Windows (Domain)	GLMANSV1189	Windows	Unprotected	ICA	Available	UserA2862	uk.corporate.local
2021-03-19T16:41:50.000Z	Unknown	External	Windows (Domain)	US-34TD36118	Windows	Unprotected	Blast	Available	DEDD8563	us.corporate.local
2021-07-20T17:13:10.000Z	CN	External	Windows (Azure AD)	DTLDTW846132	Windows	Unprotected	ICA	Available	USWS986	DE.local
2021-09-02T06:21:04.000Z	CA	External	Windows (Domain)	GLMANSV61357	Windows	Unprotected	Blast	Available	DEVE7754	US.local
2021-02-02T04:03:07.000Z	CN	External	Windows (Workgroup)	CTDE12332793	Windows	Unprotected	Blast	Available	USWS6343	uk.corporate.local
2020-10-12T17:35:00.000Z	Unknown	External	Windows (Azure AD)	DTLDTW992024	Windows	Unprotected	ICA	Available	UIDA3291	Germany

ELK Stack Dashboards

deviceTRUST® includes components for an ELK Stack to easily create a dashboard to monitor the contextual status of your remoting and DaaS environment.

The License Compliance Templates can be used with your ELK Stack to monitor or enforce Device-Based Licensing requirements for one or more applications:



121 Total Devices

38 Licensed Devices

83 Not Licensed Devices

120 Total Users

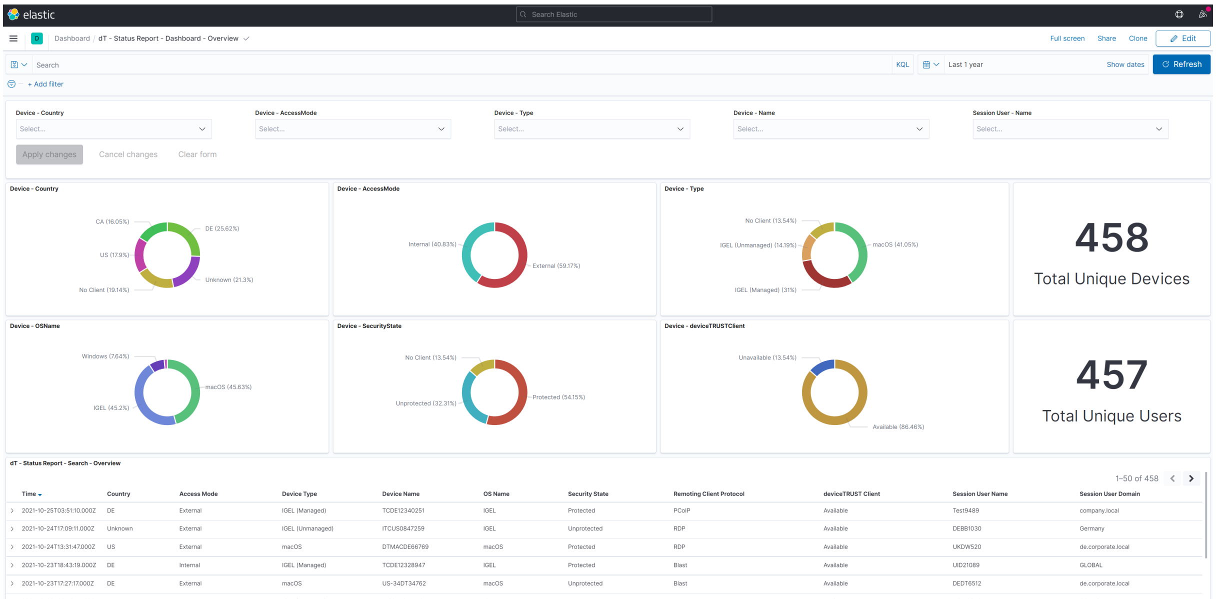
33 Application Users

Devices - Recent

1–50 of 125

Time	Application	Device Name	Licensed Status	Licensed By	Device BIOS Serial Number	Device OS ID	Application User	Session User Name	Session User Domain
Oct 23, 2021 @ 22:06:35.715	Microsoft Visio	TCDT04658	Not Licensed	Not Licensed	2c857779-d4cb-4254-a4b6-90d972846066	10870229-7e74-4c33-9f91-58c5a5fbaeac	False	User08919	company.local
Oct 21, 2021 @ 05:16:55.293	Microsoft Visio	UK-DT09665	Not Licensed	Not Licensed	8140e6e4-9eb4-4ebb-9b90-ed31f64c1637	78f71ab2-f706-4df0-9279-6a5f6c9d0bdf	False	User00589	company.local
Oct 18, 2021 @ 20:09:47.624	Adobe Acrobat DC	US-DT07631	Not Licensed	Not Licensed	c2da9b1b-7b21-4d82-a2cc-111e1005c2aa	4f007ff9-0fb0-442e-9191-fe8f146fa5b0	False	User06717	company.local
Oct 18, 2021 @ 08:59:09.975	Adobe Acrobat DC	BYOD01	Not Licensed	Not Licensed	VMware-56 4d 2f 62 b0 55 f0 75-d5 1b 4f 37 8a 11 4d ea	0F29CB60-912D-4A08-93F0-1E7F33EF96D7	False	demo	DEMO

The ELK Stack Status Report Template can be used to monitor the status of your remoting and DaaS environment:



458 Total Unique Devices

457 Total Unique Users

dT - Status Report - Search - Overview

1–50 of 458

Time	Country	Access Mode	Device Type	Device Name	OS Name	Security State	Remoting Client Protocol	deviceTRUST Client	Session User Name	Session User Domain
2021-10-25T03:51:10.000Z	DE	External	IGEL (Managed)	TCDE12340251	IGEL	Protected	PCoIP	Available	Test9489	company.local
2021-10-24T17:09:11.000Z	Unknown	External	IGEL (Unmanaged)	ITCUS0847259	IGEL	Unprotected	RDP	Available	DEBB1030	Germany
2021-10-24T13:31:47.000Z	US	External	macOS	DTMACDE66769	macOS	Protected	RDP	Available	UKDW520	de.corporate.local
2021-10-23T18:43:19.000Z	DE	Internal	IGEL (Managed)	TCDE12328947	IGEL	Protected	Blast	Available	UID21089	GLOBAL
2021-10-23T17:27:17.000Z	DE	External	macOS	US-34DT34762	macOS	Unprotected	Blast	Available	DEDT6512	de.corporate.local

- Step 1: Components
  - Step 1.1: Components - GitHub
  - Step 1.2: Components - Templates
- Step 2: The Device-Based Licensing Report
  - Step 2.1: Add Index Template to ELK Stack
  - Step 2.2: Import Saved Objects to ELK Stack
  - Step 2.3: Configuring deviceTRUST
- Step 3: The Status Report
  - Step 3.1: Add Index Template to ELK Stack

Step 1: Components

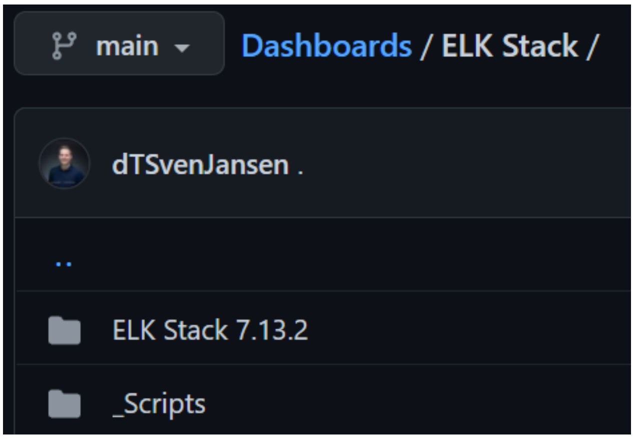
The deviceTRUST dashboards for ELK Stack consist of several components. All elements that need to be imported on the ELK Stack side can be found on GitHub. The configuration for the deviceTRUST Agent is available as a template within the deviceTRUST Console.

Step 1.1: Components - GitHub

All required components for ELK Stack can be found on our GitHub repository .

> **Note:**
>
> Saved objects for ELK are not backward compatible. Please use only versions matching or older than your system.

- Select the version number matching your ELK Stack system and download the files. You can of course also clone the whole repository if you like.



main

Dashboards / ELK Stack /

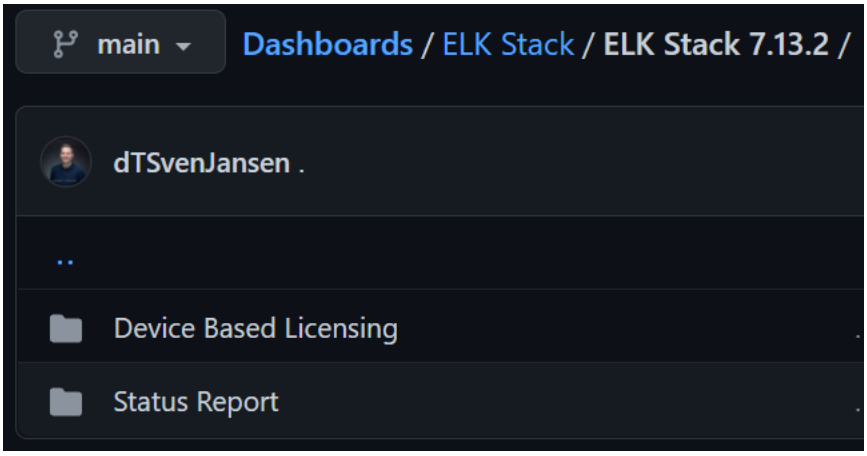
dTSvenJansen .

..

ELK Stack 7.13.2

_Scripts

Every version folder contains folders for each use case. Each of these use case folders contains the relevant stored object and mapping files.



main

Dashboards / ELK Stack / ELK Stack 7.13.2 /

dTSvenJansen .

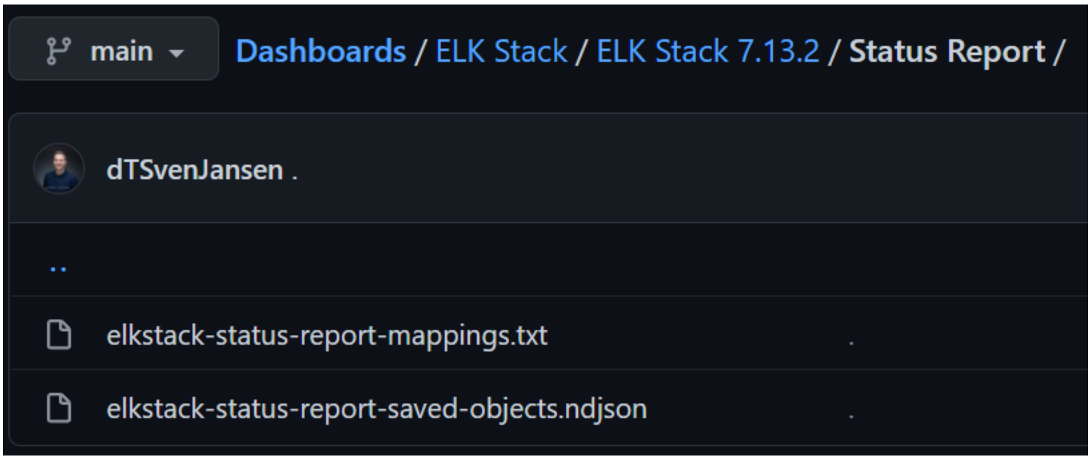
..

Device Based Licensing

Status Report

Each use case folder contains the following files:

- `elkstack-<use case>-mappings.txt` contains data definitions for the data being sent to ELK Stack index mapping.
- `elkstack-<use case>-saved-objects.ndjson` contains all objects that are required to store, search and visualize data, such as indexes, scripted fields, dashboards and searches.



main

Dashboards / ELK Stack / ELK Stack 7.13.2 / Status Report /

dTSvenJansen .

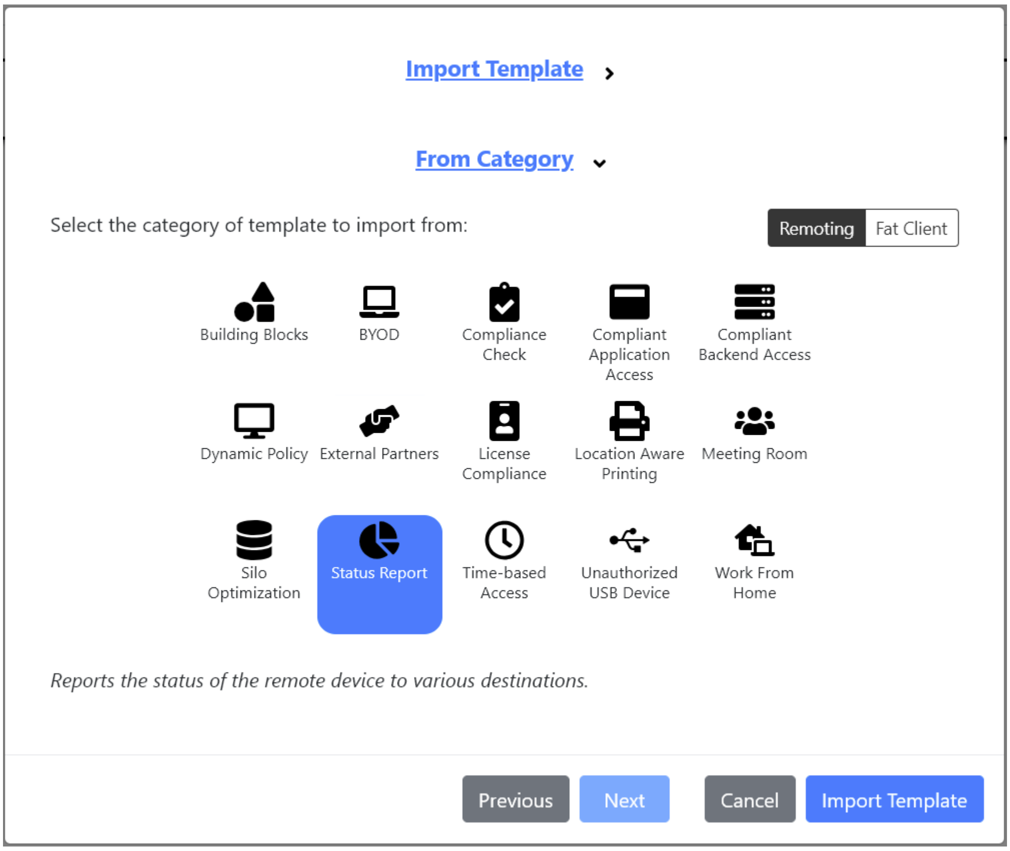
..

elkstack-status-report-mappings.txt

elkstack-status-report-saved-objects.ndjson

Step 1.2: Components - Templates

deviceTRUST must be configured to send the required data for each use case. Templates for both use cases are included in the deviceTRUST Console.



Select the category of template to import from:

Reports the status of the remote device to various destinations.

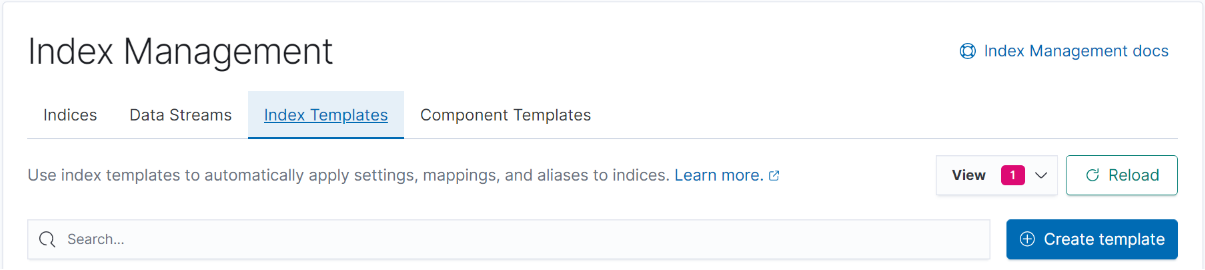
Step 2: The Device-Based Licensing Report

This part of the guide relates to `Device-Based Licensing`. It lists all steps that are required to configure the ELK Stack, and also how to configure the deviceTRUST Agent.

Step 2.1: Add Index Template to ELK Stack

The first step is to create an `Index Template`. Index Templates describe the data that is being sent to an index. They make sure that every date is treated according to its type.

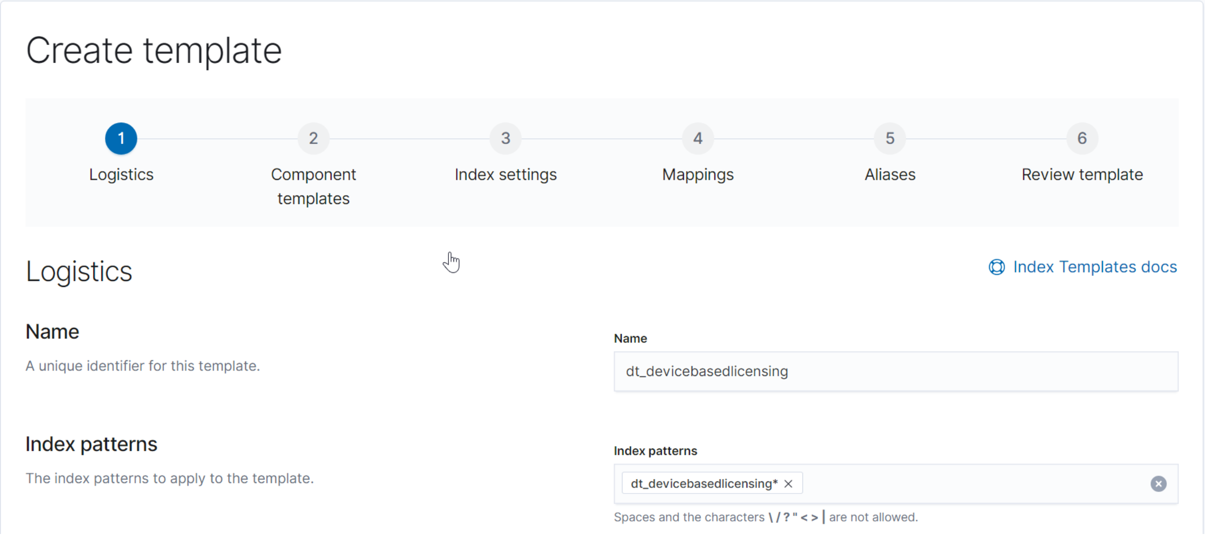
- Within the ELK Stack management console, navigate to `Menu\Stack Management\Index Management\Index Templates`.
- Click `Create Template`.



Index Management

Use index templates to automatically apply settings, mappings, and aliases to indices. Learn more.

- Set `Name` to `dt_devicebasedlicensing`.
- Set `Index Patterns` to `dt_devicebasedlicensing*`.



Create template

Logistics

Name

A unique identifier for this template.

Name: dt_devicebasedlicensing

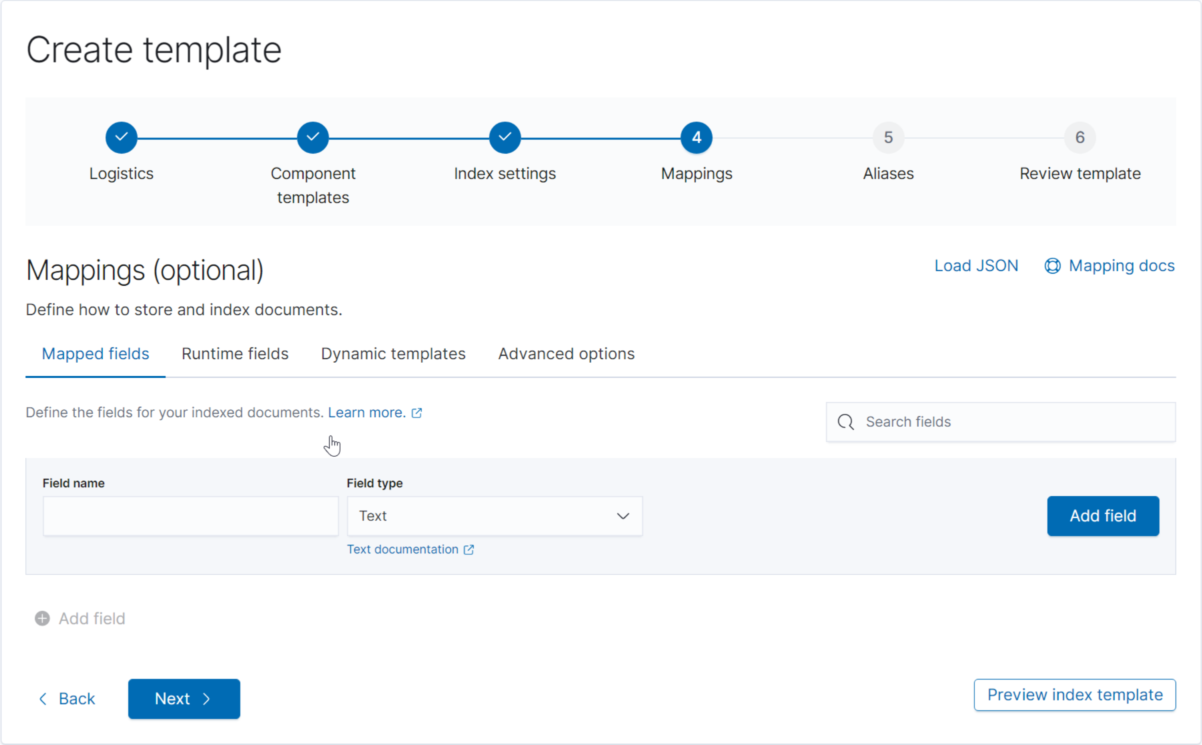
Index patterns

The index patterns to apply to the template.

Index patterns: dt_devicebasedlicensing*

Spaces and the characters \ / ? " < > | are not allowed.

- Skip all options until `Mappings`.
- Select `Load Json` to import the file `elkstack-device-based-licensing-mappings.txt` that was downloaded in Step 1.1.



Create template

Mappings (optional)

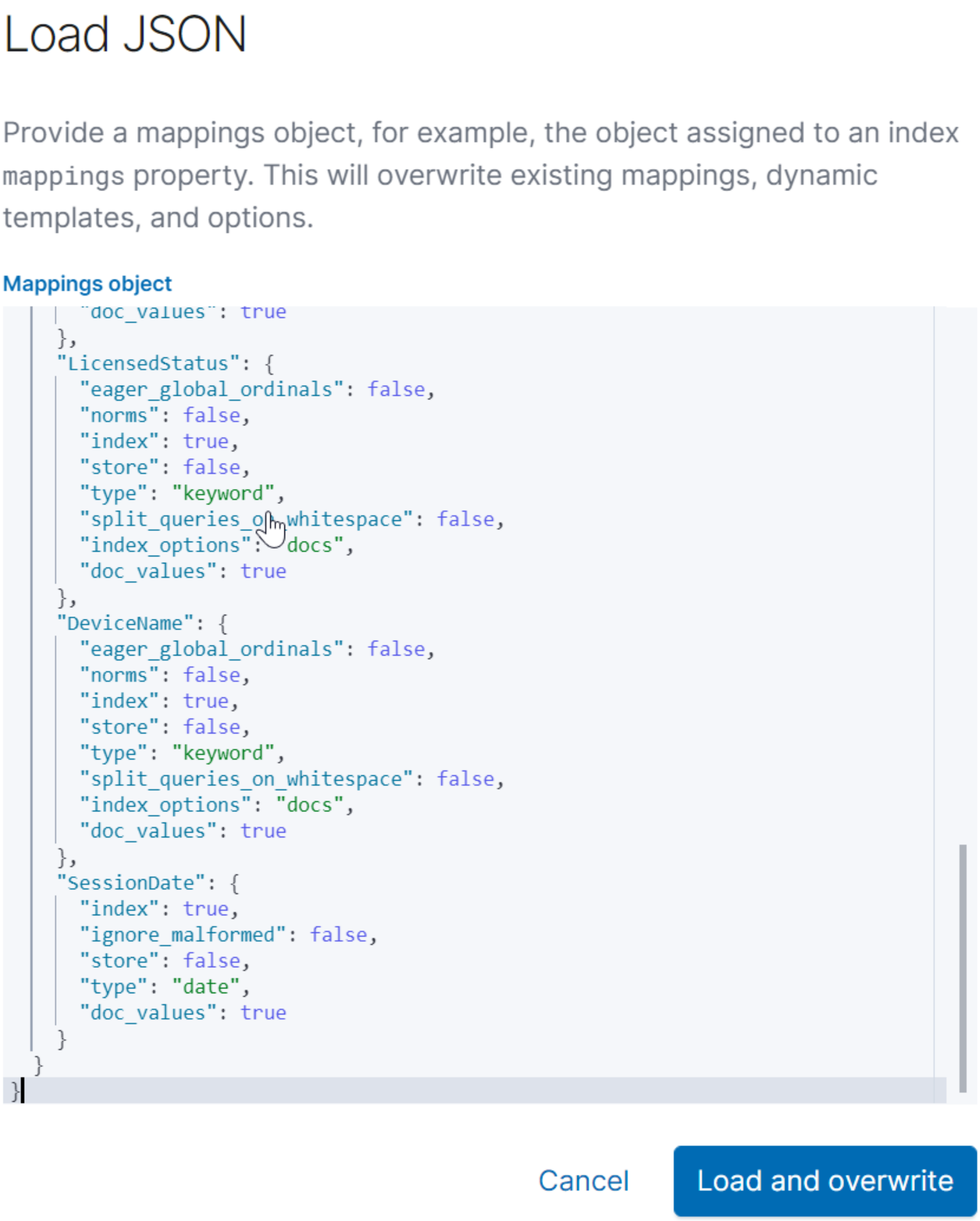
Define how to store and index documents.

Define the fields for your indexed documents. Learn more.

Field name:

Field type: Text

- Proceed with `Load and overwrite`.



Load JSON

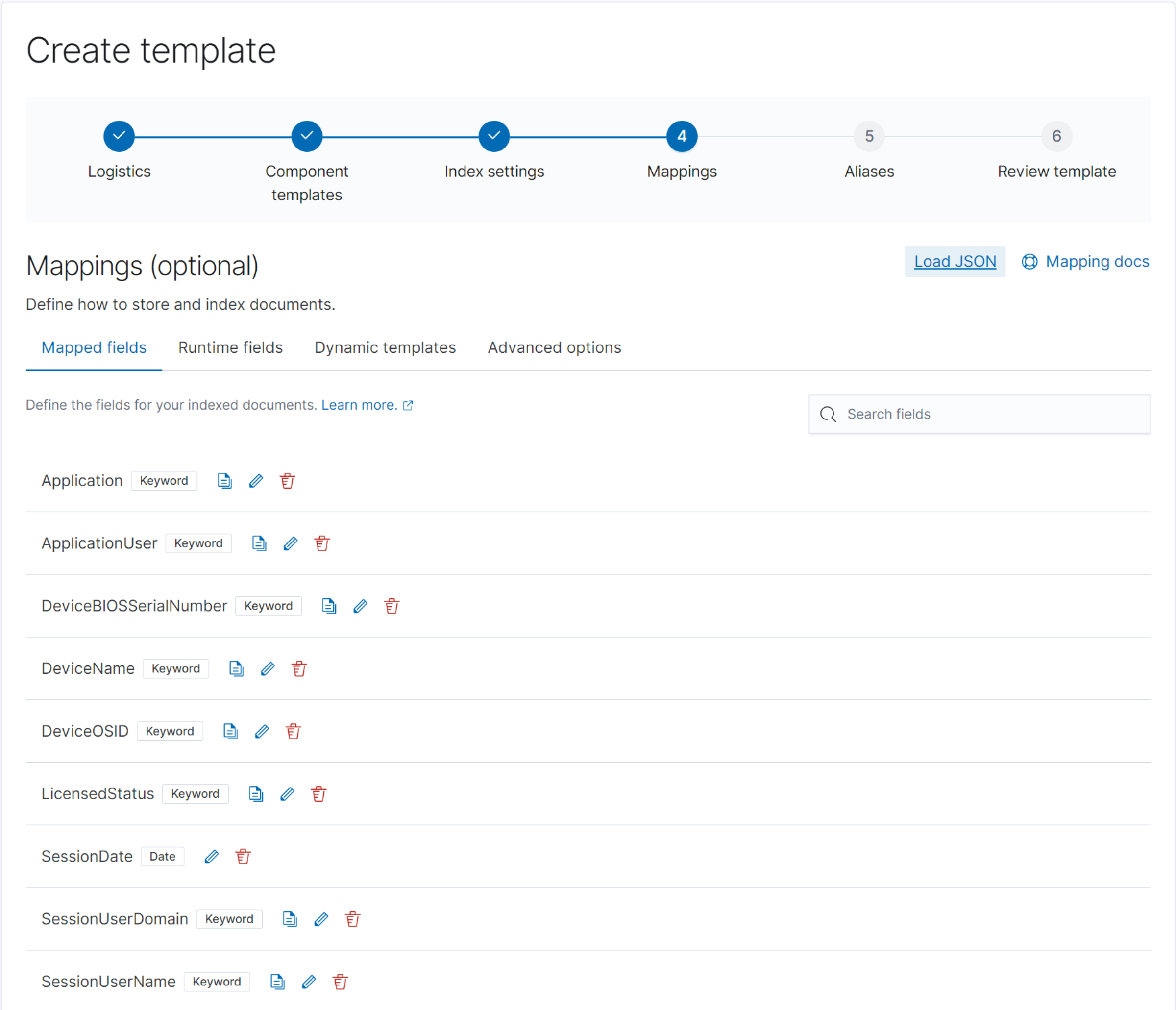
Provide a mappings object, for example, the object assigned to an index mappings property. This will overwrite existing mappings, dynamic templates, and options.

Mappings object

```
        "doc_values": true
      },
      "LicensedStatus": {
        "eager_global_ordinals": false,
        "norms": false,
        "index": true,
        "store": false,
        "type": "keyword",
        "split_queries_on_whitespace": false,
        "index_options": "docs",
        "doc_values": true
      },
      "DeviceName": {
        "eager_global_ordinals": false,
        "norms": false,
        "index": true,
        "store": false,
        "type": "keyword",
        "split_queries_on_whitespace": false,
        "index_options": "docs",
        "doc_values": true
      },
      "SessionDate": {
        "index": true,
        "ignore_malformed": false,
        "store": false,
        "type": "date",
        "doc_values": true
      }
    }
}
```

The imported mappings are displayed. Please review them carefully.

- `SessionDate` needs to be recognized as type `Date` for the report to function properly.



Create template

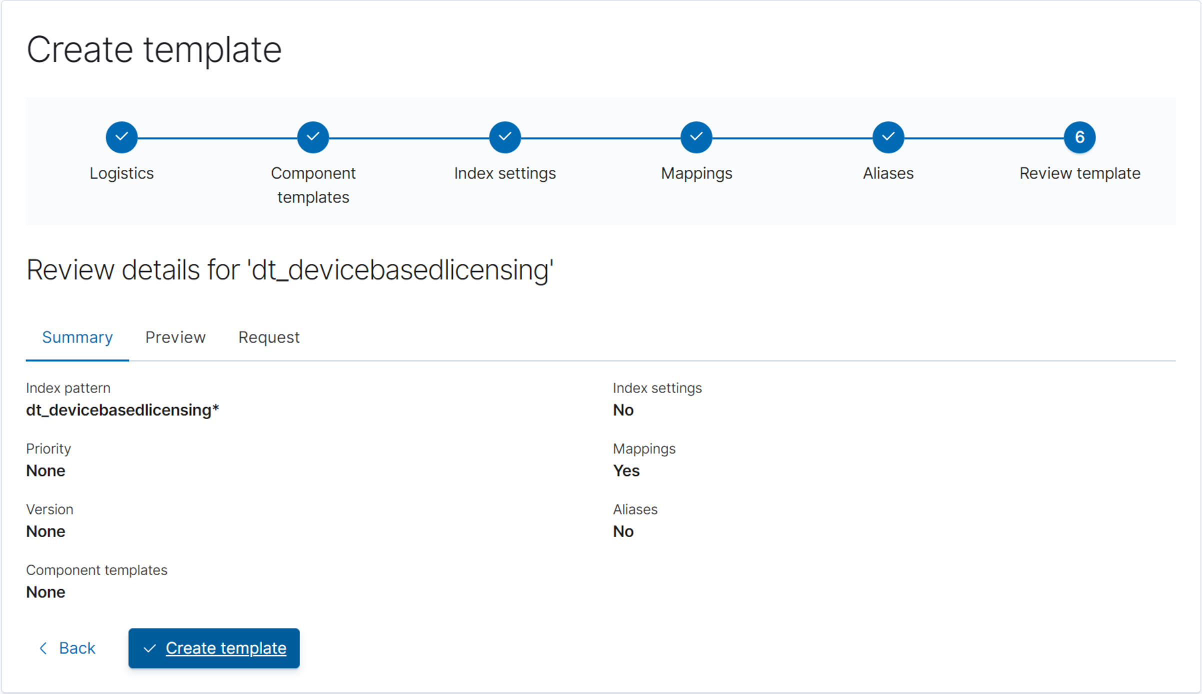
Mappings (optional)

Define how to store and index documents.

Define the fields for your indexed documents. Learn more.

Application	Keyword
ApplicationUser	Keyword
DeviceBIOSSerialNumber	Keyword
DeviceName	Keyword
DeviceOSID	Keyword
LicensedStatus	Keyword
SessionDate	Date
SessionUserDomain	Keyword
SessionUserName	Keyword

- Skip all options until `Review Template`.
- Generate the template with `Create Template`.



Create template

Review details for 'dt_devicebasedlicensing'

Index pattern
dt_devicebasedlicensing*

Priority
None

Version
None

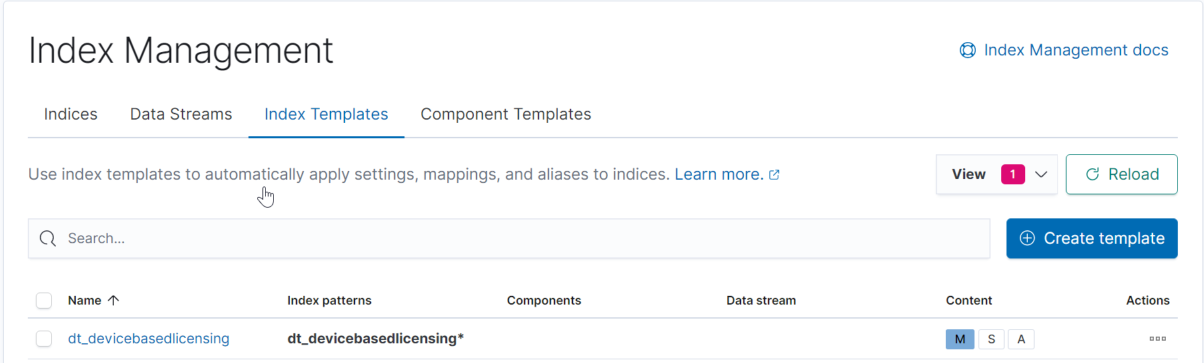
Component templates
None

Index settings
No

Mappings
Yes

Aliases
No

You'll be given an overview of the created template. A blue marked `M` in the `Content` section indicates that mappings are available.



Index Management

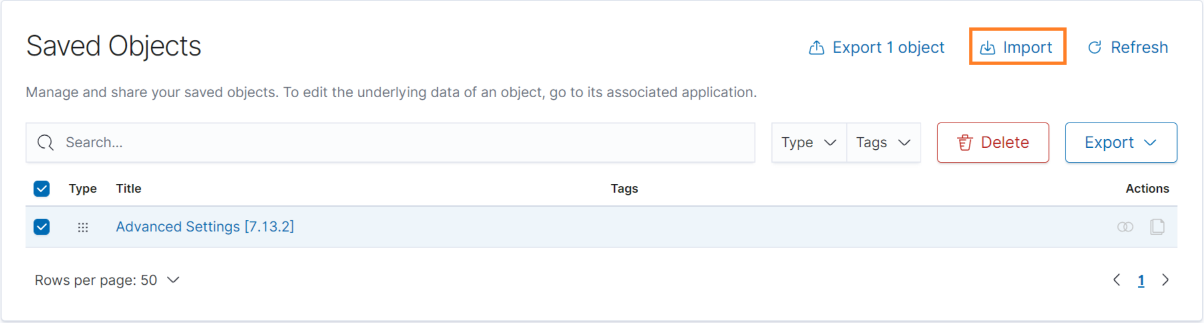
Use index templates to automatically apply settings, mappings, and aliases to indices. Learn more.

	Name ↑	Index patterns	Components	Data stream	Content	Actions
□	dt_devicebasedlicensing	dt_devicebasedlicensing*			M S A	···

Step 2.2: Import Saved Objects to ELK Stack

All other parts of the report are to be imported as `Saved Objects`. The Saved Objects consist of Index Patterns with Scripted Fields, Visualizations and Dashboards.

- Navigate to `Menu\Stack Management\Saved Objects` in your ELK Stack management console.
- Click `Import`.

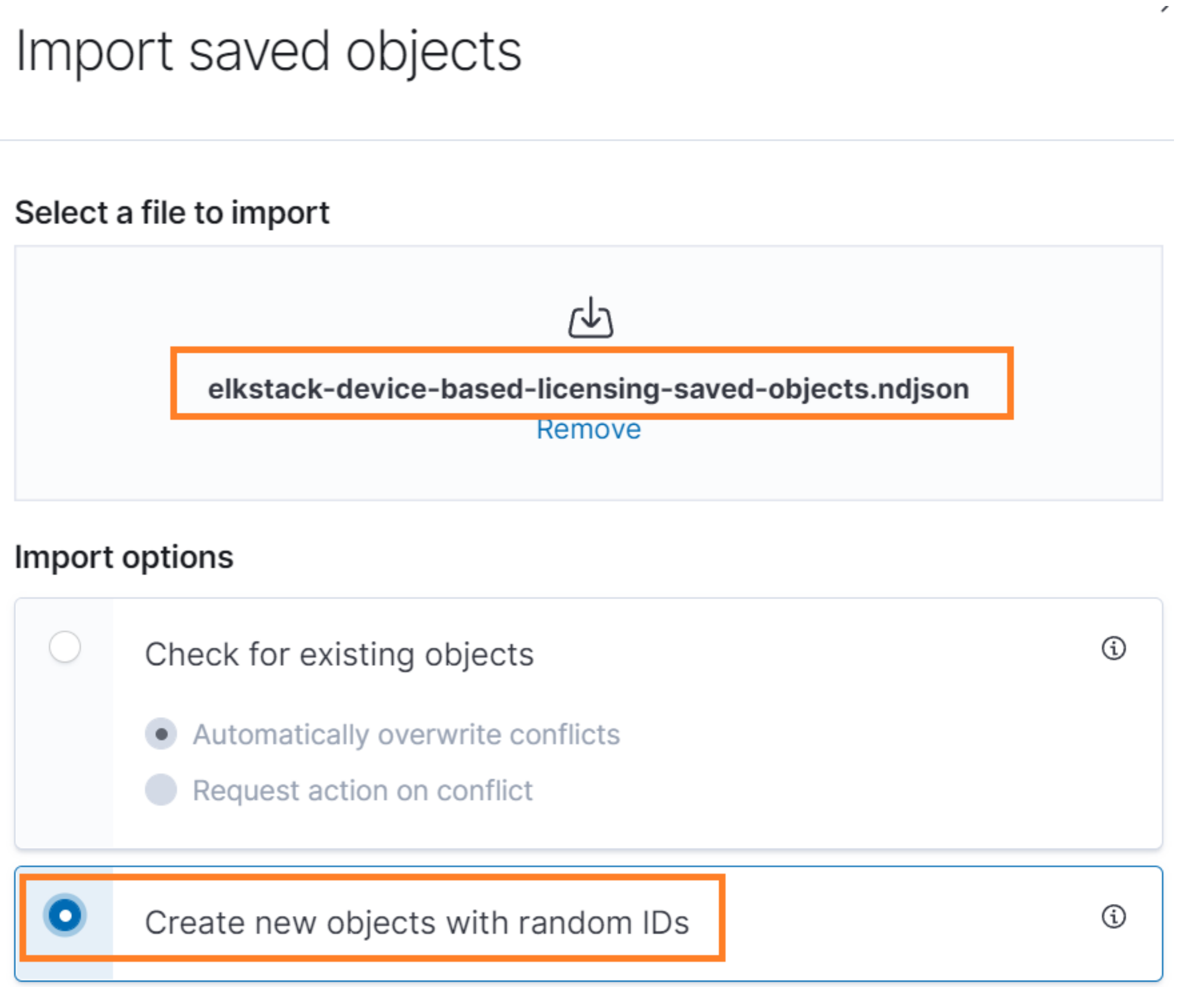


Saved Objects

Manage and share your saved objects. To edit the underlying data of an object, go to its associated application.

☑	Type	Title	Tags	Actions
☑		Advanced Settings [7.13.2]		

- Select the file `elkstack-device-based-licensing-saved-objects.ndjson`.
- Check `Create new objects with random IDs` to make sure no existing objects are altered.



Import saved objects

Select a file to import

elkstack-device-based-licensing-saved-objects.ndjson

Import options

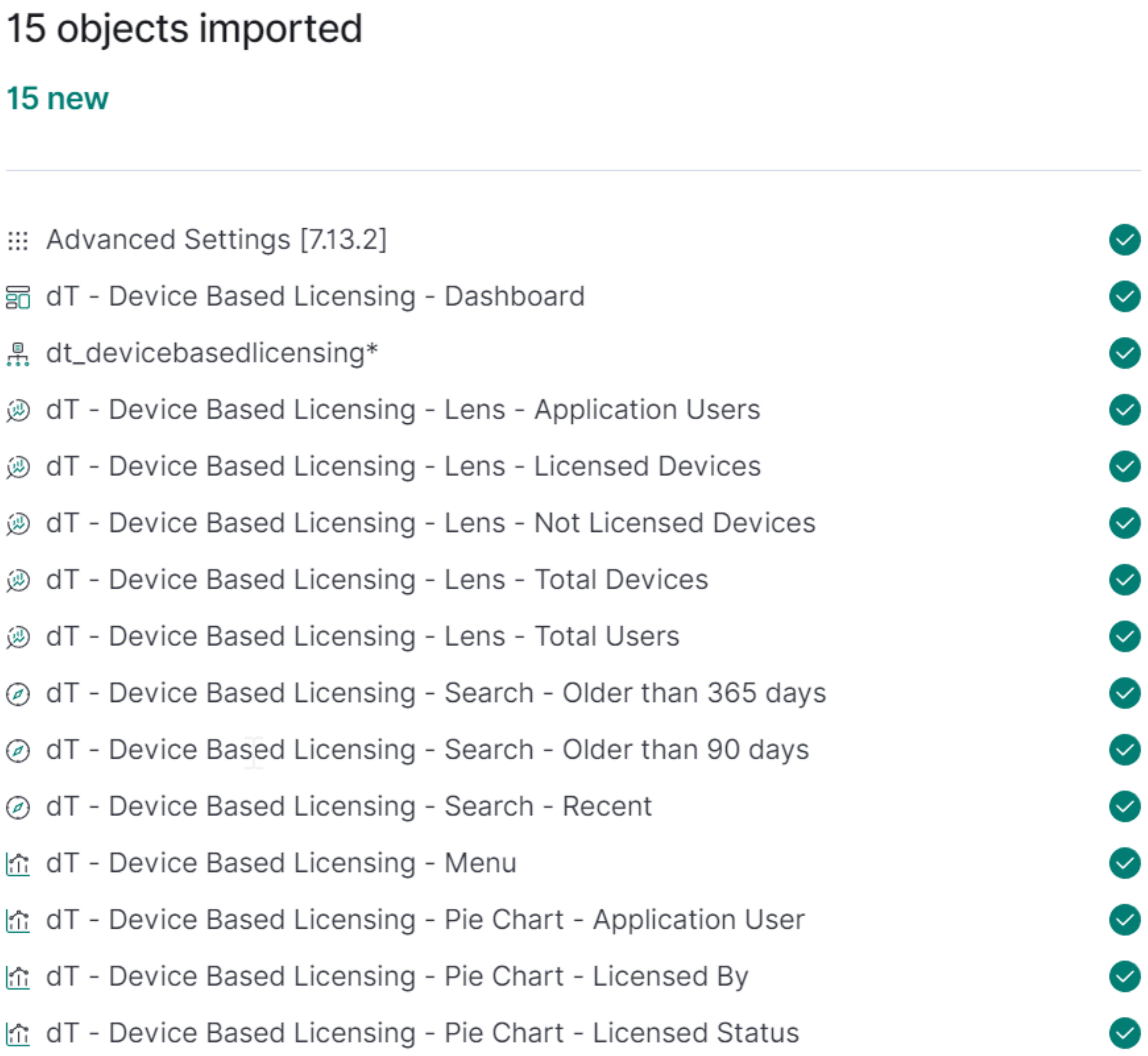
○ Check for existing objects

● Automatically overwrite conflicts

○ Request action on conflict

● Create new objects with random IDs

After importing, an overview of the imported objects will be displayed.



15 objects imported

15 new

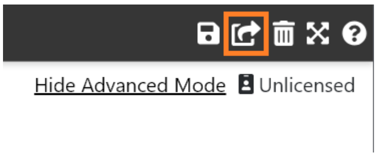
- Advanced Settings [7.13.2] ✓
- dT - Device Based Licensing - Dashboard ✓
- dt_devicebasedlicensing* ✓
- dT - Device Based Licensing - Lens - Application Users ✓
- dT - Device Based Licensing - Lens - Licensed Devices ✓
- dT - Device Based Licensing - Lens - Not Licensed Devices ✓
- dT - Device Based Licensing - Lens - Total Devices ✓
- dT - Device Based Licensing - Lens - Total Users ✓
- dT - Device Based Licensing - Search - Older than 365 days ✓
- dT - Device Based Licensing - Search - Older than 90 days ✓
- dT - Device Based Licensing - Search - Recent ✓
- dT - Device Based Licensing - Menu ✓
- dT - Device Based Licensing - Pie Chart - Application User ✓
- dT - Device Based Licensing - Pie Chart - Licensed By ✓
- dT - Device Based Licensing - Pie Chart - Licensed Status ✓

Step 2.3: Configuring deviceTRUST

After the Index Mapping has been created and the Saved Objects are included, the ELK Stack is prepared for storing, sorting, and displaying your data.

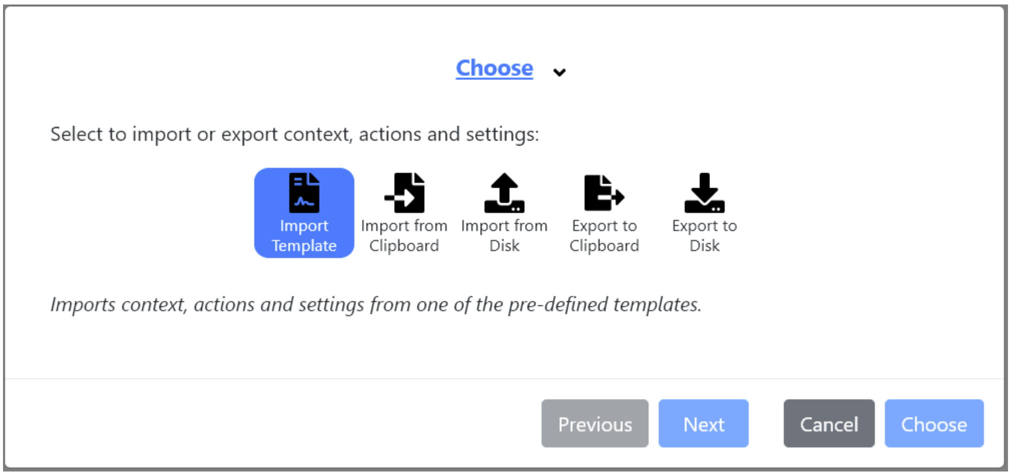
The final step is to create the deviceTRUST configuration that will make sure all the required data is provided.

- Open the `deviceTRUST Console`.
- Click `Sharing` in the top right menu. You may need to click `Show Advanced View` if this button is not visible.



Hide Advanced Mode Unlicensed

- Select `Import Template`.

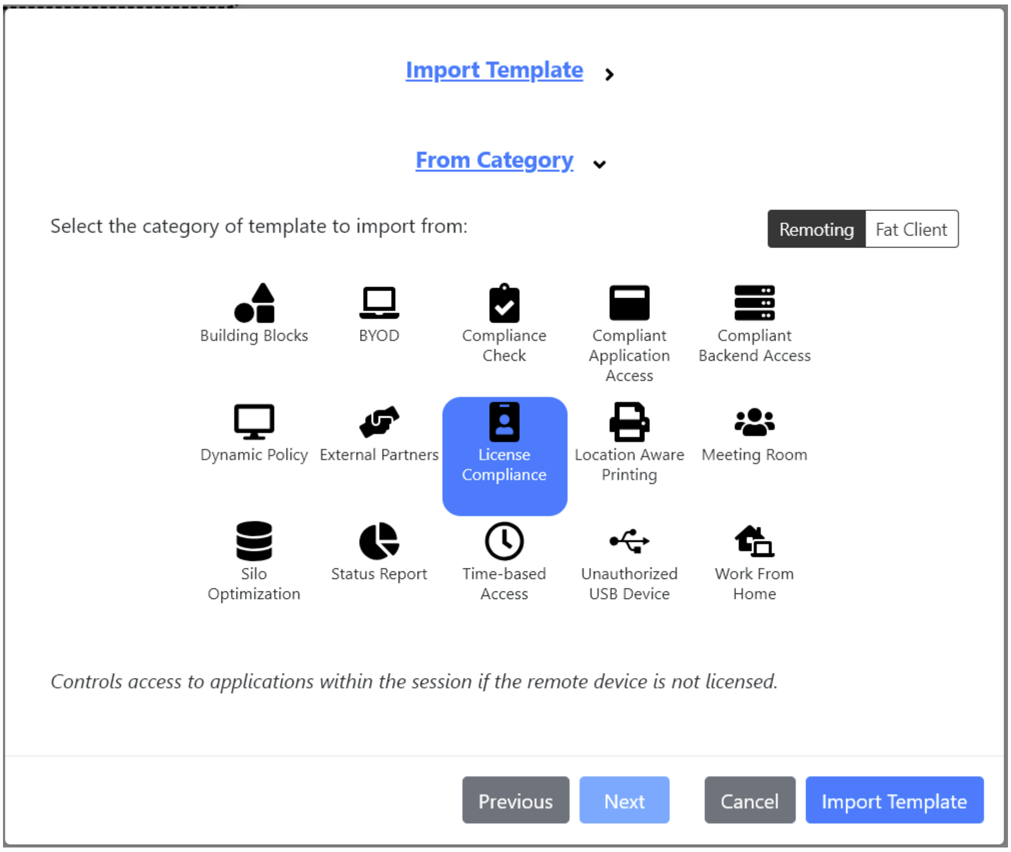


Choose

Select to import or export context, actions and settings:

Imports context, actions and settings from one of the pre-defined templates.

- For `Device-Based Licensing`, the template category `License Compliance` is used.



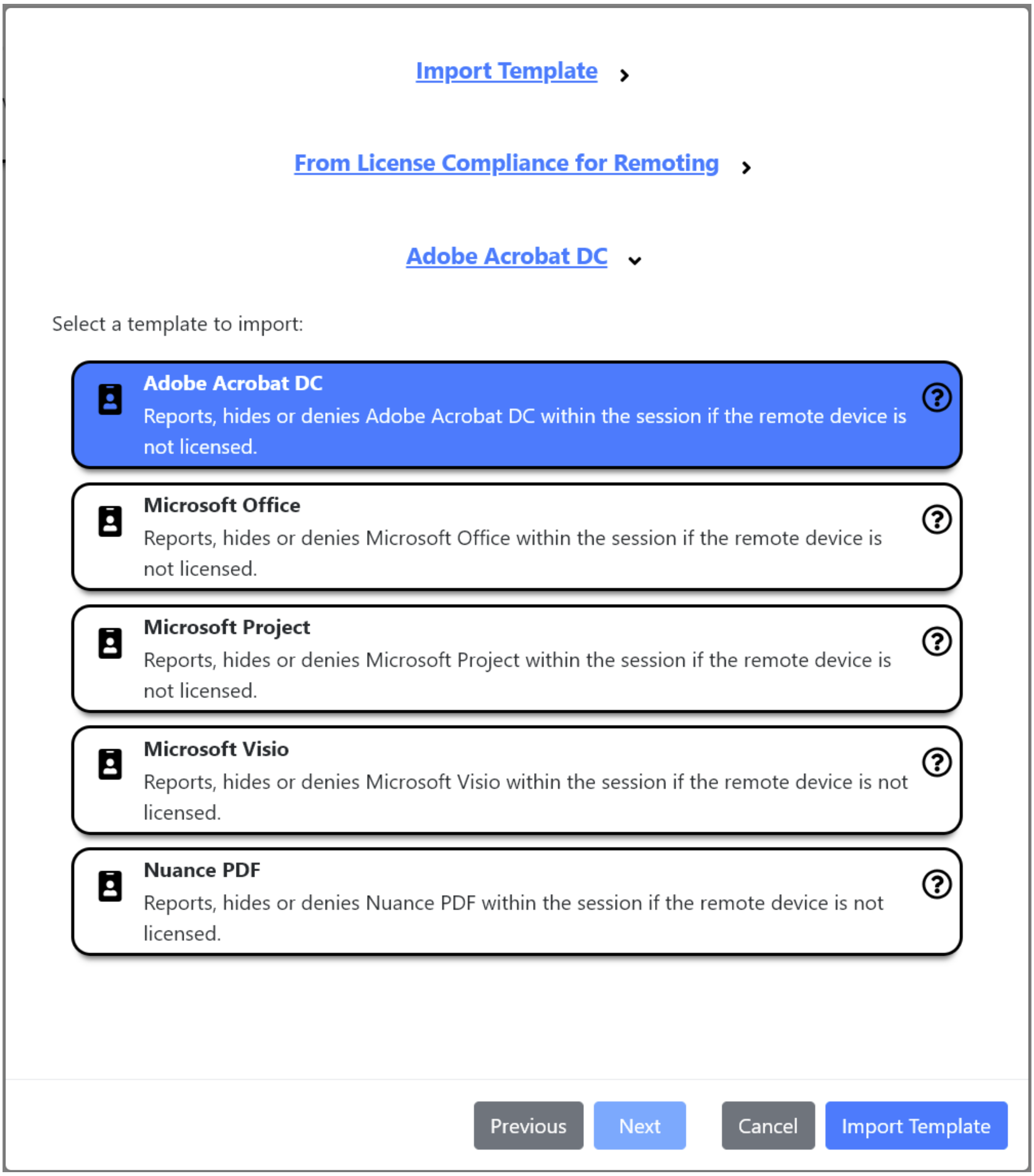
Import Template

From Category

Select the category of template to import from:

Controls access to applications within the session if the remote device is not licensed.

This category contains templates for several software products. This example uses `Acrobat DC`, but can easily be customised for other applications.



Import Template ›

From License Compliance for Remoting ›

Adobe Acrobat DC ⌄

Select a template to import:

Adobe Acrobat DC
Reports, hides or denies Adobe Acrobat DC within the session if the remote device is not licensed.

Microsoft Office
Reports, hides or denies Microsoft Office within the session if the remote device is not licensed.

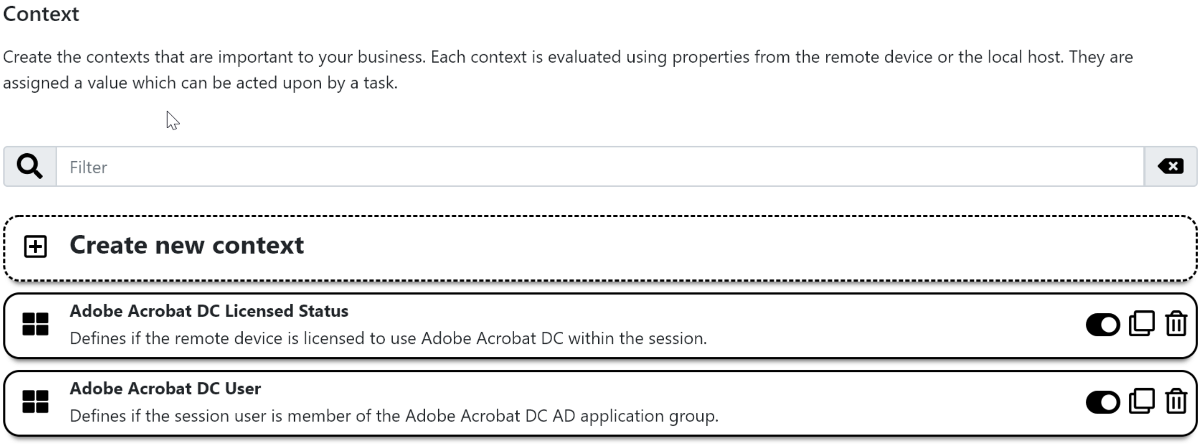
Microsoft Project
Reports, hides or denies Microsoft Project within the session if the remote device is not licensed.

Microsoft Visio
Reports, hides or denies Microsoft Visio within the session if the remote device is not licensed.

Nuance PDF
Reports, hides or denies Nuance PDF within the session if the remote device is not licensed.

Two contexts are included:

- `Adobe Acrobat DC Licensed Status` to evaluate the device's license status.
- `Adobe Acrobar DC User` to define if the accessing user shall or shall not be using the software.



Context

Create the contexts that are important to your business. Each context is evaluated using properties from the remote device or the local host. They are assigned a value which can be acted upon by a task.

Filter

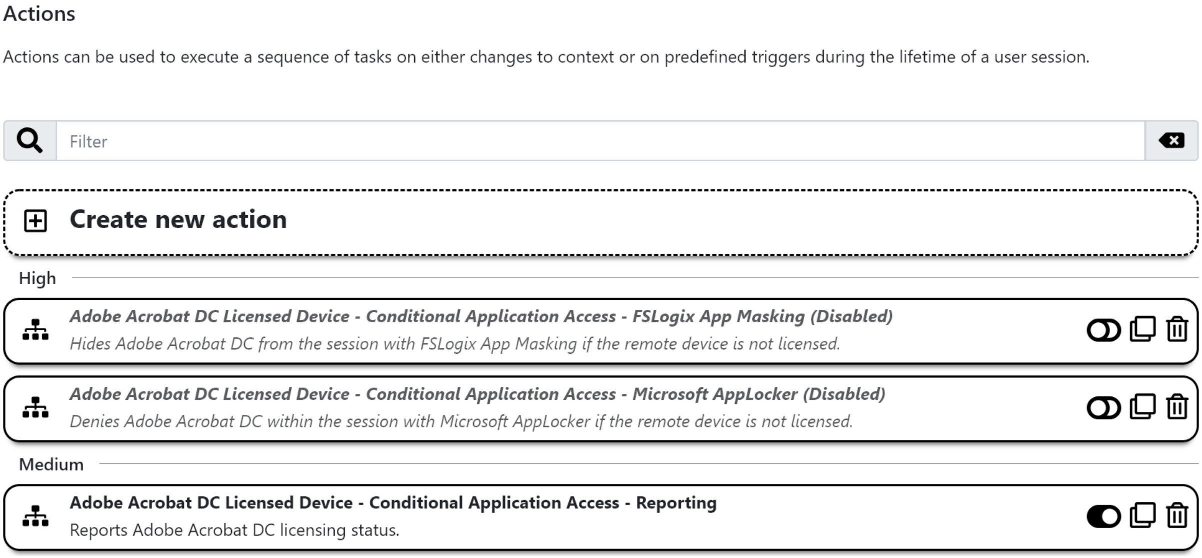
⊞ Create new context

Adobe Acrobat DC Licensed Status
Defines if the remote device is licensed to use Adobe Acrobat DC within the session.

Adobe Acrobat DC User
Defines if the session user is member of the Adobe Acrobat DC AD application group.

Three actions are included:

- `Adobe Acrobat DC Licensed Device - Conditional Application Access - FSLogix App Masking` is used for controlling access to the software using FSLogix App Masking. This action can be ignored or removed for now.
- `Adobe Acrobat DC Licensed Device - Conditional Application Access - Microsoft AppLocker` is used for controlling access to the software using Microsoft Applocker. This action can be ignored or removed for now.
- `Adobe Acrobat DC Licensed Device - Conditional Application Access - Reporting` is the only action required for reporting.



Actions

Actions can be used to execute a sequence of tasks on either changes to context or on predefined triggers during the lifetime of a user session.

Filter

⊞ Create new action

High

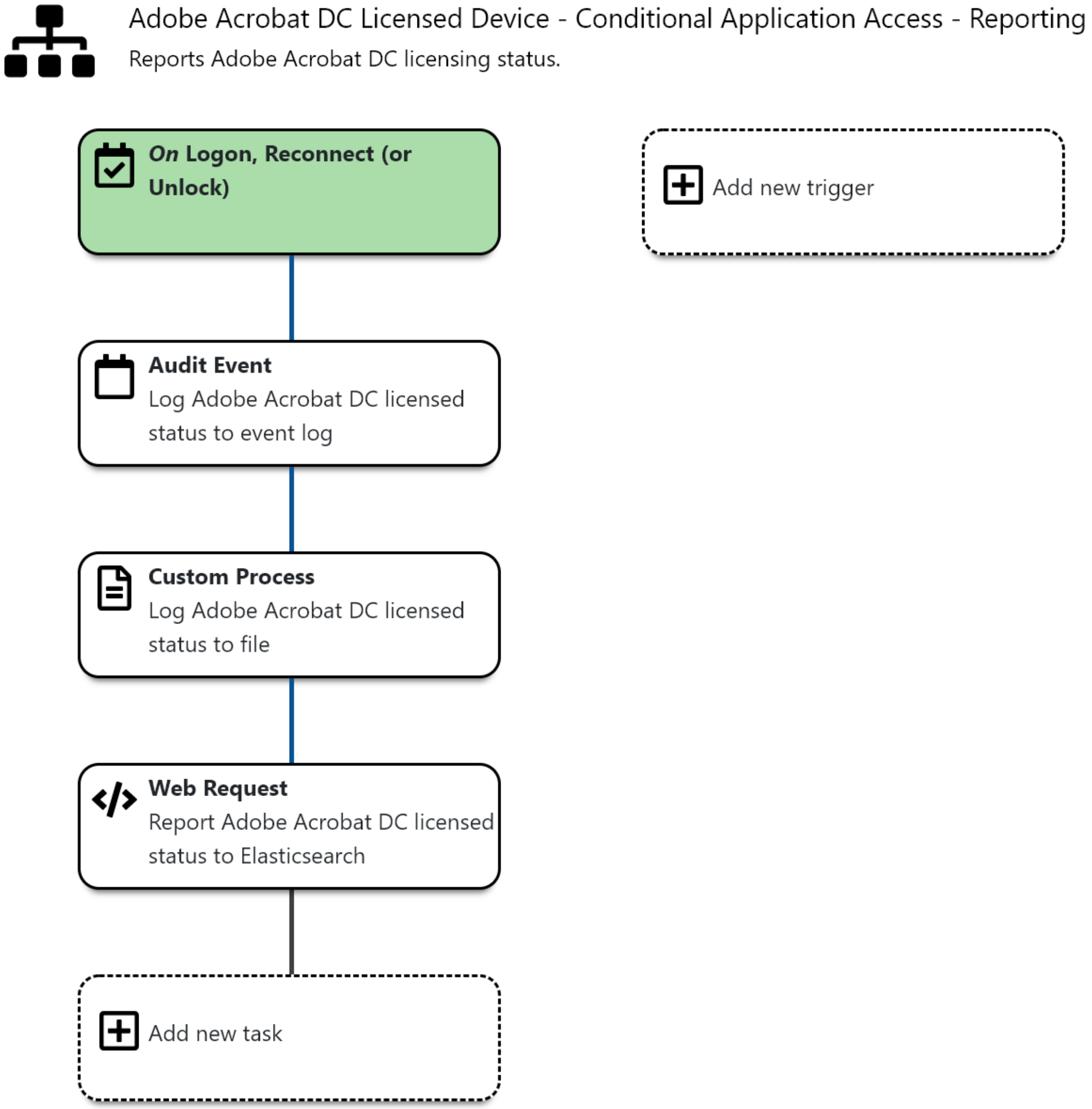
Adobe Acrobat DC Licensed Device - Conditional Application Access - FSLogix App Masking (Disabled)
Hides Adobe Acrobat DC from the session with FSLogix App Masking if the remote device is not licensed.

Adobe Acrobat DC Licensed Device - Conditional Application Access - Microsoft AppLocker (Disabled)
Denies Adobe Acrobat DC within the session with Microsoft AppLocker if the remote device is not licensed.

Medium

Adobe Acrobat DC Licensed Device - Conditional Application Access - Reporting
Reports Adobe Acrobat DC licensing status.

- The action contains multiple ways to store the data. Sending data to ELK Stack is configured by using a `Web Request` task. The `Audit Event`, `Custom Process`, as well as the `Web Request` Tasks for Splunk and Graylog can be deleted, as we are looking at ELK Stack here.

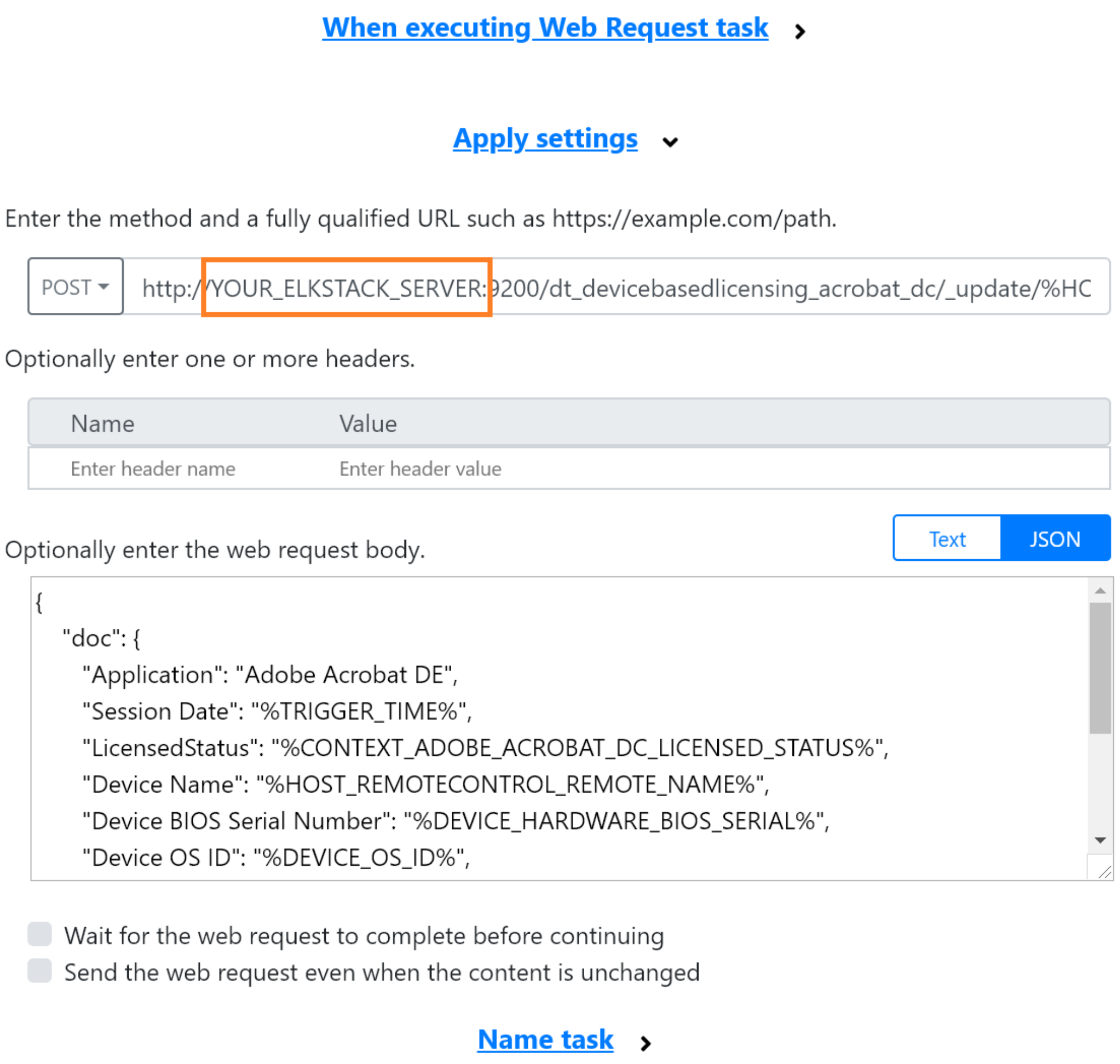


Adobe Acrobat DC Licensed Device - Conditional Application Access - Reporting

Reports Adobe Acrobat DC licensing status.

On Logon, Reconnect (or Unlock)
Add new trigger
Audit Event
Log Adobe Acrobat DC licensed status to event log
Custom Process
Log Adobe Acrobat DC licensed status to file
Web Request
Report Adobe Acrobat DC licensed status to Elasticsearch
Add new task

- The Web Request task must be edited to suit your environment. If you use a basic setup without SSL or authorization, adding `your server's fqdn` is the only required configuration change.



When executing Web Request task ›

Apply settings ⌄

Enter the method and a fully qualified URL such as https://example.com/path.

POST ▾ http://YOUR_ELKSTACK_SERVER:9200/dt_devicebasedlicensing_acrobat_dc/_update/%HC

Optionally enter one or more headers.

Name	Value
Enter header name	Enter header value

Optionally enter the web request body. Text [✓ JSON]

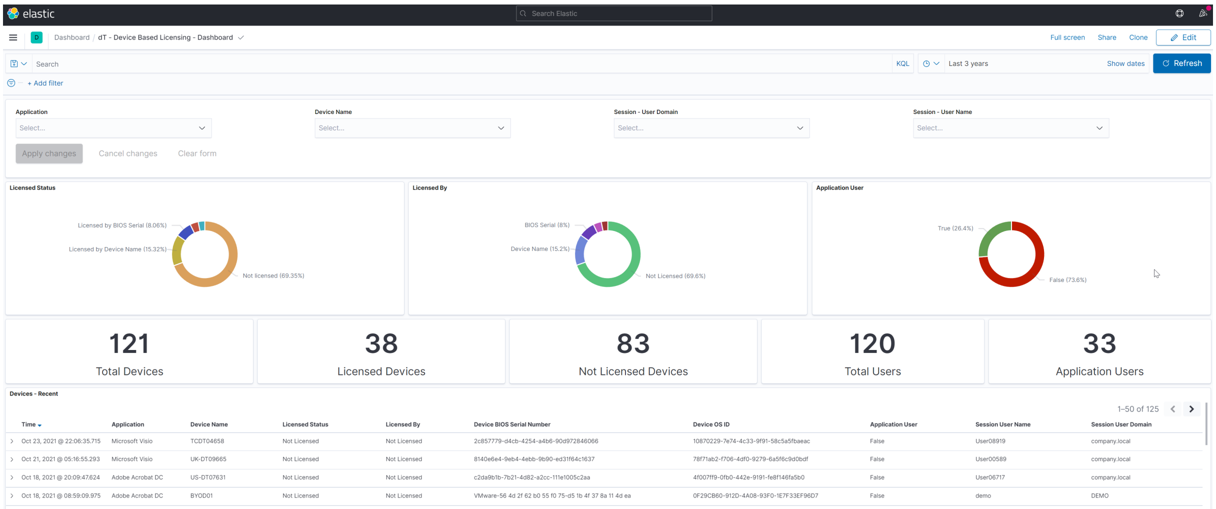
```
{
  "doc": {
    "Application": "Adobe Acrobat DE",
    "Session Date": "%TRIGGER_TIME%",
    "LicensedStatus": "%CONTEXT_ADOBE_ACROBAT_DC_LICENSED_STATUS%",
    "Device Name": "%HOST_REMOTECONTROL_REMOTE_NAME%",
    "Device BIOS Serial Number": "%DEVICE_HARDWARE_BIOS_SERIAL%",
    "Device OS ID": "%DEVICE_OS_ID%",
```

□ Wait for the web request to complete before continuing
□ Send the web request even when the content is unchanged

Name task ›

After the index template has been created, the saved objects are imported and the agent-side has been configured, the use case `Device-Based Licensing` has been implemented successfully.

deviceTRUST now sends status data about the application usage and the required hardware information to ELK Stack on every access to the remoting system. The data is presented in the created dashboards.



121 Total Devices

38 Licensed Devices

83 Not Licensed Devices

120 Total Users

33 Application Users

Devices - Recent

1–50 of 125

Time	Application	Device Name	Licensed Status	Licensed By	Device BIOS Serial Number	Device OS ID	Application User	Session User Name	Session User Domain
Oct 23, 2021 @ 22:06:35.715	Microsoft Visio	TCDT04658	Not Licensed	Not Licensed	2c857779-d4cb-4254-a4b6-90d972846066	10870229-7e74-4c33-9f91-58c5a5fbaeac	False	User08919	company.local
Oct 21, 2021 @ 05:16:55.293	Microsoft Visio	UK-DT09665	Not Licensed	Not Licensed	8140e6e4-9eb4-4ebb-9b90-ed31f64c1637	78f71ab2-f706-4df0-9279-6a5f6c9d0bdf	False	User00589	company.local
Oct 18, 2021 @ 20:09:47.624	Adobe Acrobat DC	US-DT07631	Not Licensed	Not Licensed	c2da9b1b-7b21-4d82-a2cc-111e1005c2aa	4f007ff9-0fb0-442e-9191-fe8f146fa5b0	False	User06717	company.local
Oct 18, 2021 @ 08:59:09.975	Adobe Acrobat DC	BYOD01	Not Licensed	Not Licensed	VMware-56 4d 2f 62 b0 55 f0 75-d5 1b 4f 37 8a 11 4d ea	0F29CB60-912D-4A08-93F0-1E7F33EF96D7	False	demo	DEMO

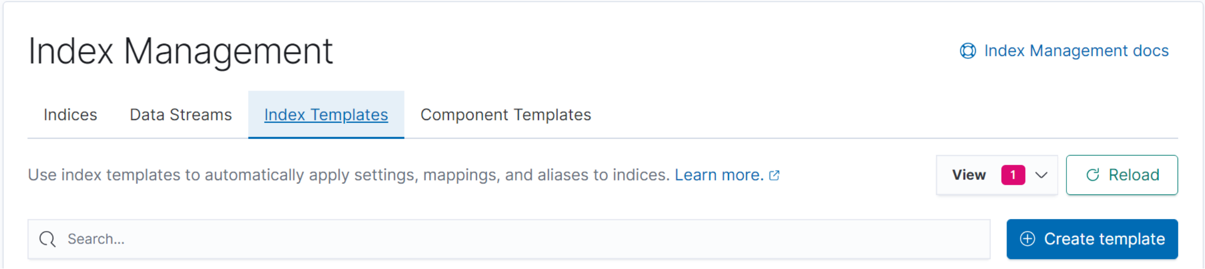
Step 3: The Status Report

This part of the guide relates to the `Status Report`. It lists all steps that are required to configure the use case on the agent-side, as well as on the ELK Stack side.

Step 3.1: Add Index Template to ELK Stack

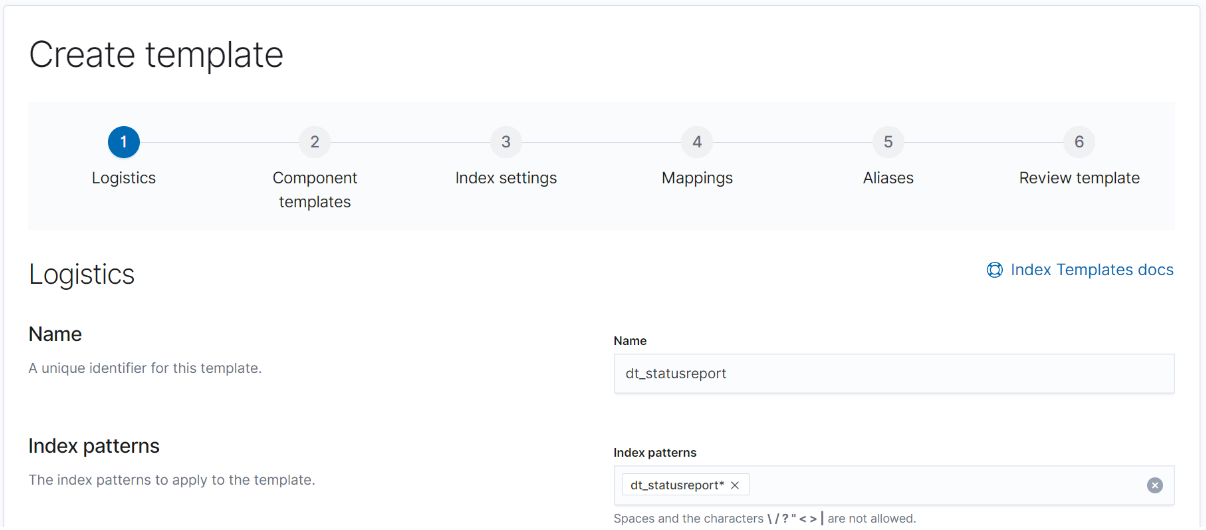
The first step is to create an `Index Template`. Index Templates describe the data that is being sent to an index. They make sure, that every date is treated according to its type.

- Within the ELK Stack management console, navigate to `Menu`\\`Stack Management`\\`Index Management`\\`Index Templates`.
- Click `Create Template`.



Use index templates to automatically apply settings, mappings, and aliases to indices. Learn more.

- Set `Name` to `dt_statusreport`.
- Set `Index Patterns` to `dt_statusreport*`.



Create template

Logistics

Name

A unique identifier for this template.

Name: dt_statusreport

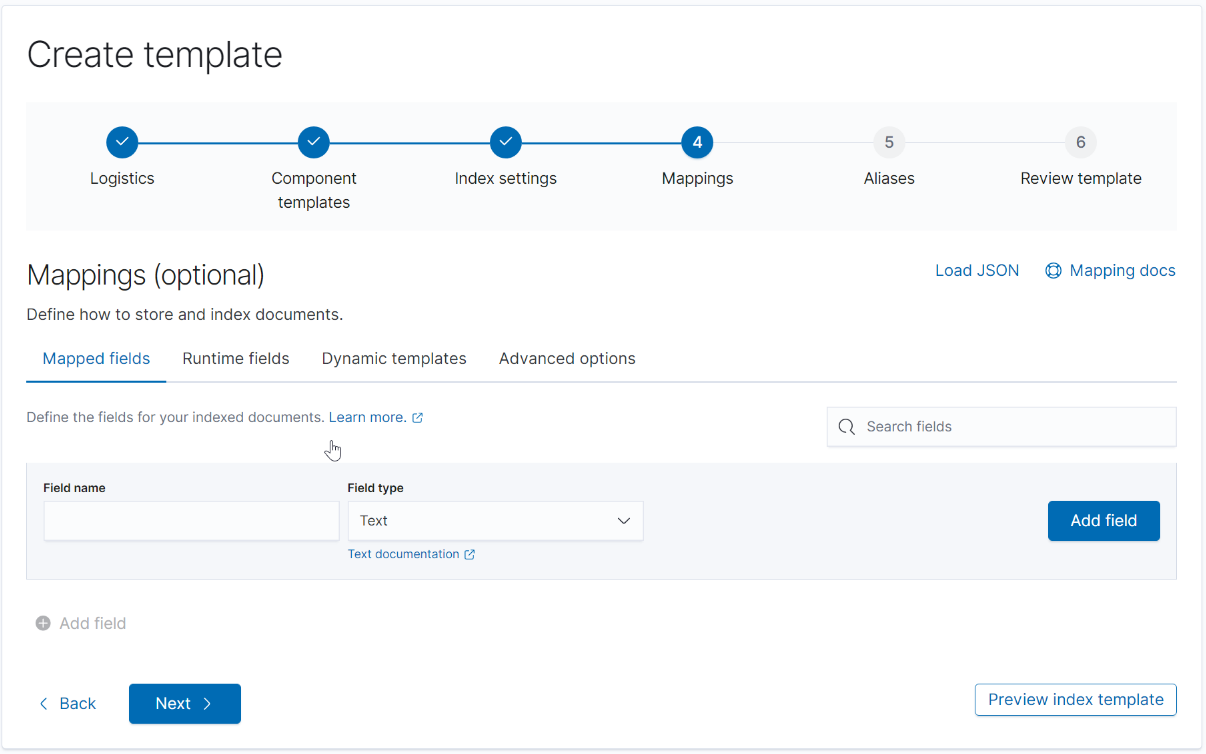
Index patterns

The index patterns to apply to the template.

Index patterns: dt_statusreport*

Spaces and the characters \ / ? " < > | are not allowed.

- Skip all options until `Mappings`.
- Select `Load Json` to import the `elkstack-status-report-mappings.txt` that was downloaded in Step 1.1.



Create template

Mappings (optional)

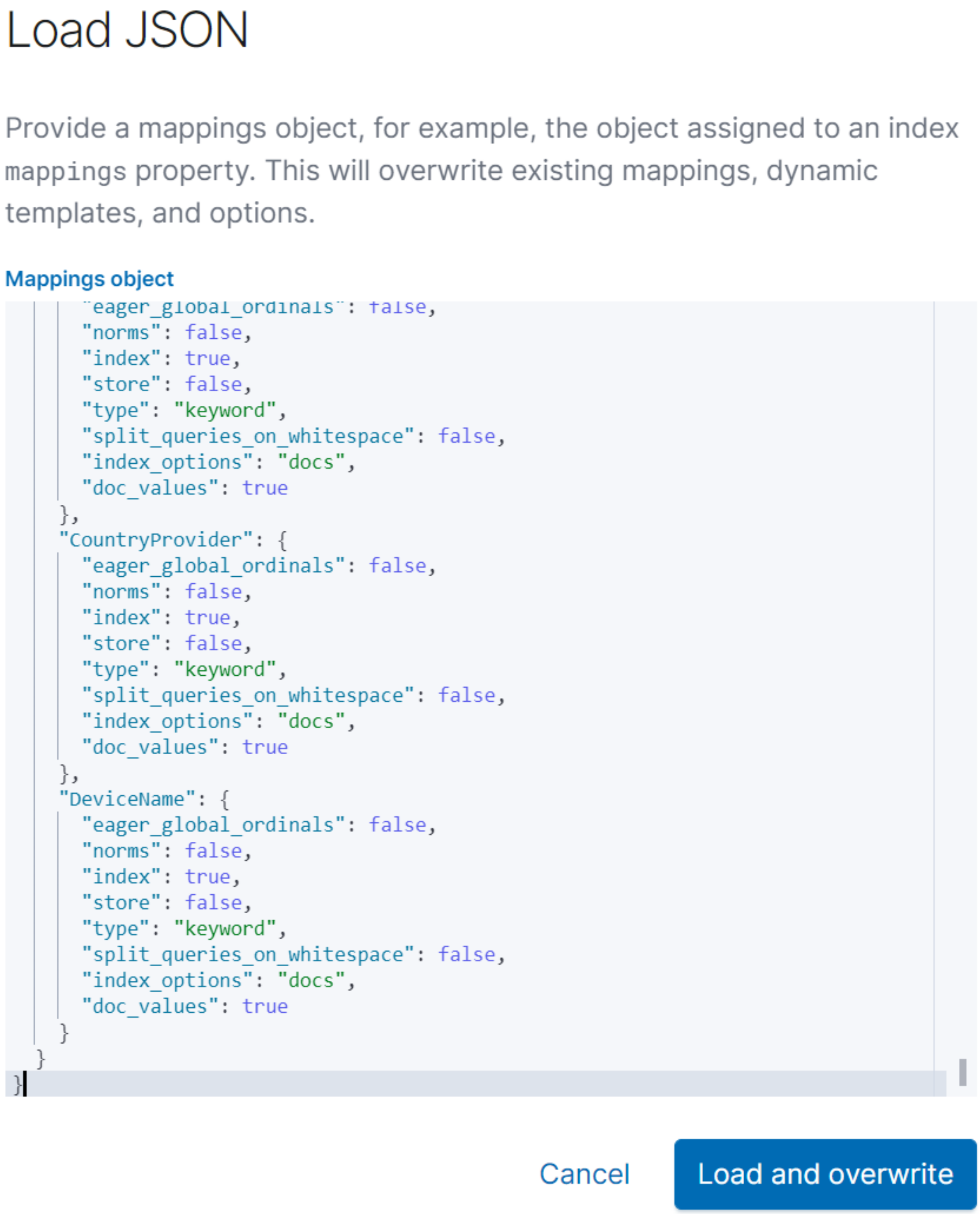
Define how to store and index documents.

Define the fields for your indexed documents. Learn more.

Field name:

Field type: Text

- Proceed with `Load and overwrite`.



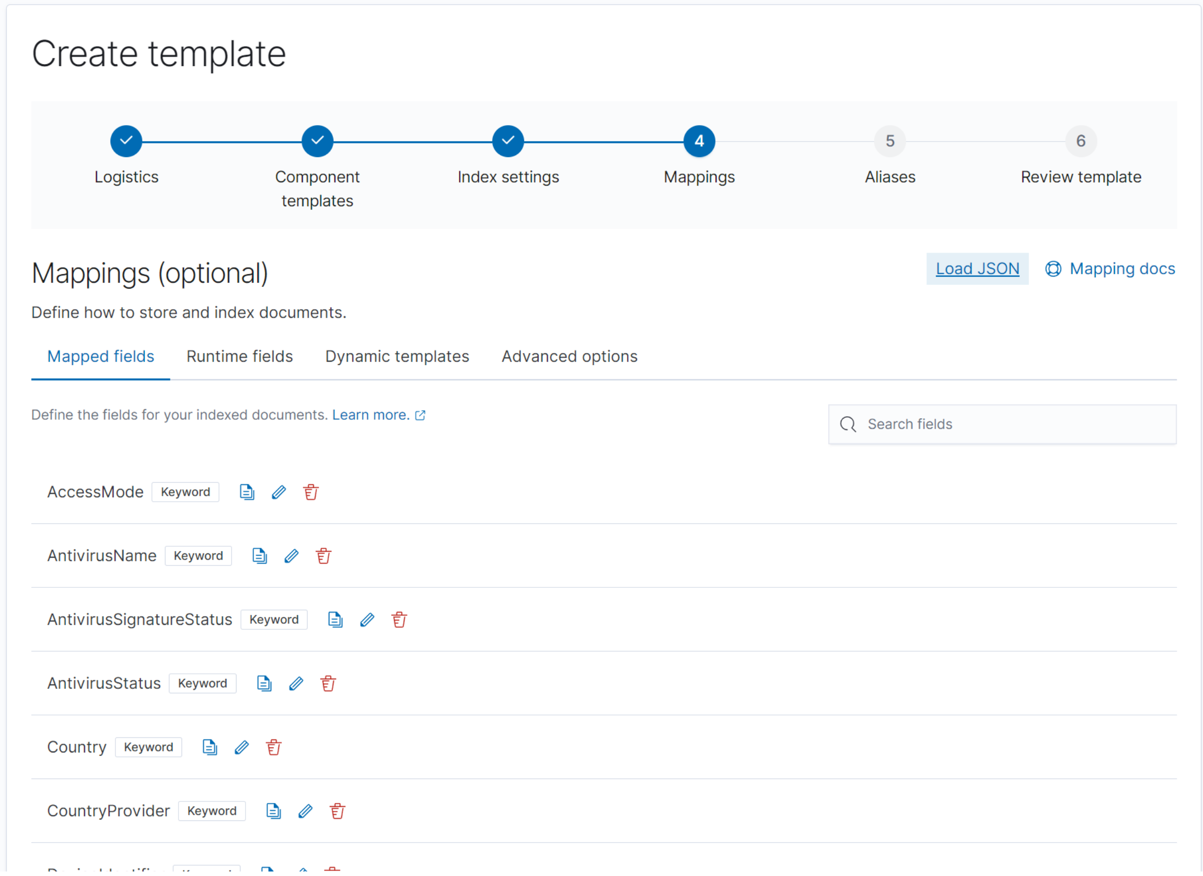
Load JSON

Provide a mappings object, for example, the object assigned to an index mappings property. This will overwrite existing mappings, dynamic templates, and options.

Mappings object

```
      "eager_global_ordinals": false,
      "norms": false,
      "index": true,
      "store": false,
      "type": "keyword",
      "split_queries_on_whitespace": false,
      "index_options": "docs",
      "doc_values": true
    },
    "CountryProvider": {
      "eager_global_ordinals": false,
      "norms": false,
      "index": true,
      "store": false,
      "type": "keyword",
      "split_queries_on_whitespace": false,
      "index_options": "docs",
      "doc_values": true
    },
    "DeviceName": {
      "eager_global_ordinals": false,
      "norms": false,
      "index": true,
      "store": false,
      "type": "keyword",
      "split_queries_on_whitespace": false,
      "index_options": "docs",
      "doc_values": true
    }
  }
}
```

- The imported mappings are displayed. Please review them carefully. `Session Date`, `Anti-Virus Timestamp` and `Hardware BIOS Release Date` need to be recognized as type `Date` for the report to function properly.



Create template

Mappings (optional)

Define how to store and index documents.

Define the fields for your indexed documents. Learn more.

AccessMode Keyword

AntivirusName Keyword

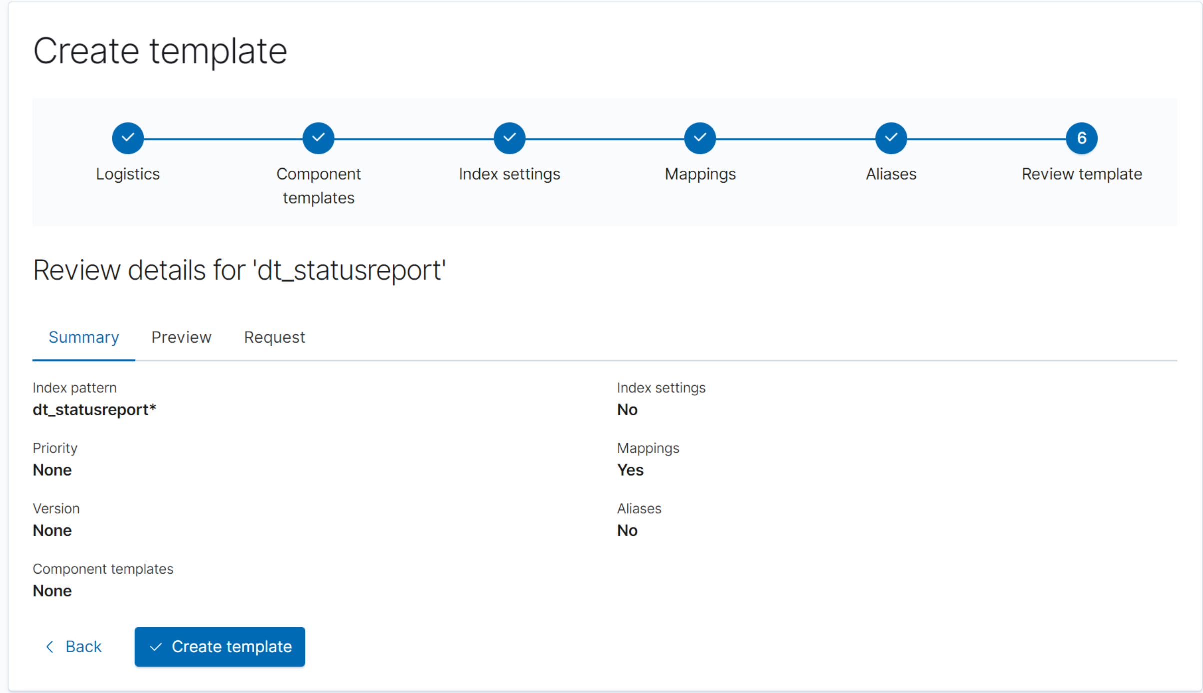
AntivirusSignatureStatus Keyword

AntivirusStatus Keyword

Country Keyword

CountryProvider Keyword

- Skip all options until `Review Template`.
- Generate the template with `Create Template`.



Create template

Review details for 'dt_statusreport'

Index pattern
dt_statusreport*

Priority
None

Version
None

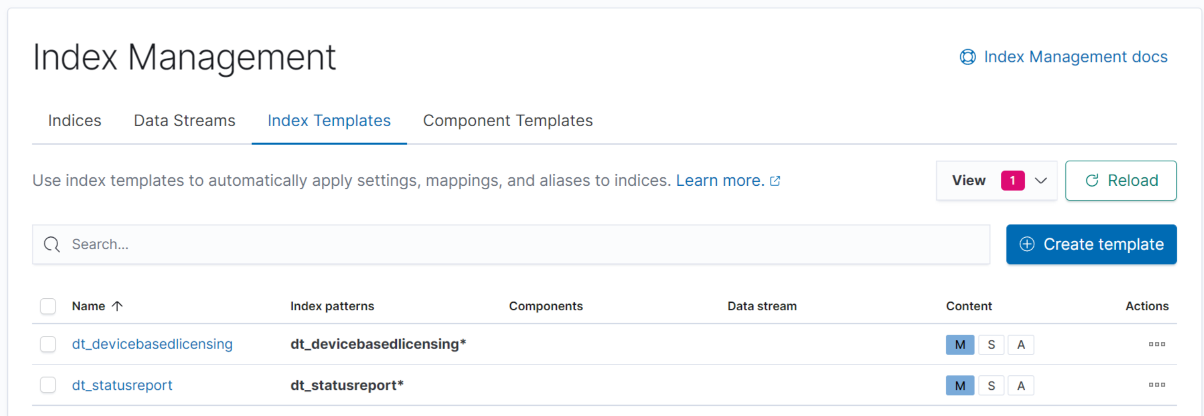
Component templates
None

Index settings
No

Mappings
Yes

Aliases
No

- You'll be given an overview of the created template. A blue marked M in the Content section indicates, that mappings are available.



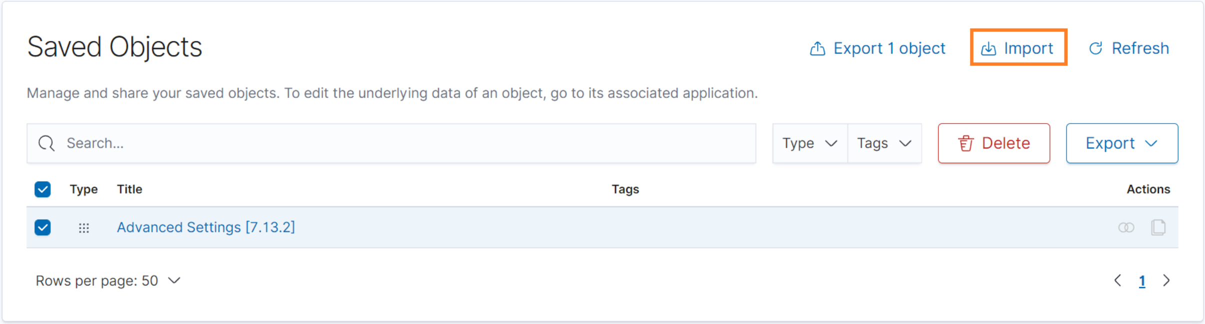
Use index templates to automatically apply settings, mappings, and aliases to indices. Learn more.

Name	Index patterns	Components	Data stream	Content	Actions
dt_devicebasedlicensing	dt_devicebasedlicensing*			M S A	···
dt_statusreport	dt_statusreport*			M S A	···

Step 3.2: Import Saved Objects to ELK Stack

All other parts of the report are to be imported as Saved Objects. The Saved Objects consist of Index Patterns with Scripted Fields, Visualizations and Dashboards.

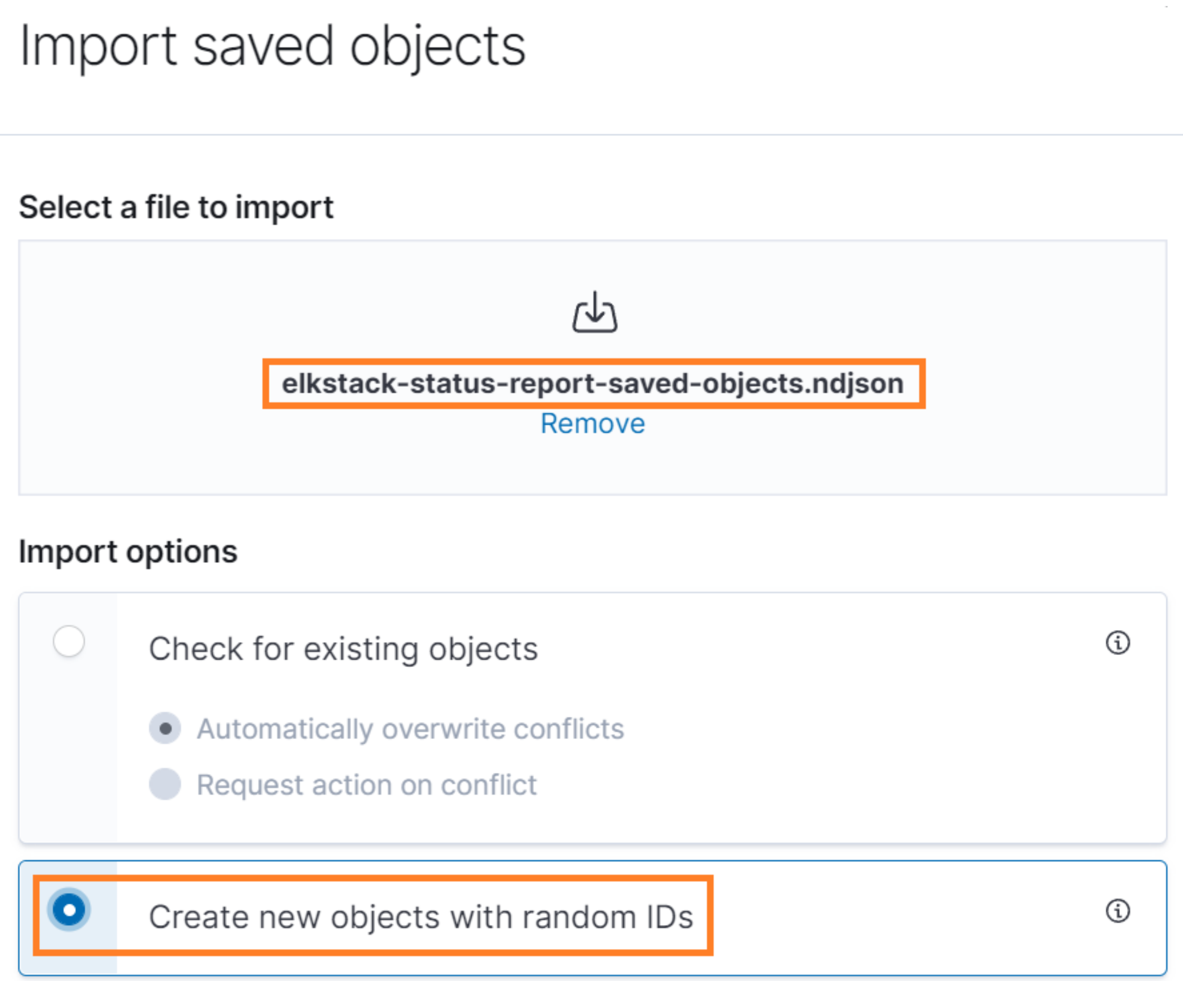
- Navigate to Menu\Stack Management\Saved Objects in your ELK Stack management console.
- Click Import.



Manage and share your saved objects. To edit the underlying data of an object, go to its associated application.

☑ Type	Title	Tags	Actions
☑	Advanced Settings [7.13.2]		

- Select the file elkstack-status-report-saved-objects.ndjson.
- Check Create new objects with random IDs to make sure no existing objects are altered.



Import saved objects

Select a file to import

elkstack-status-report-saved-objects.ndjson

Import options

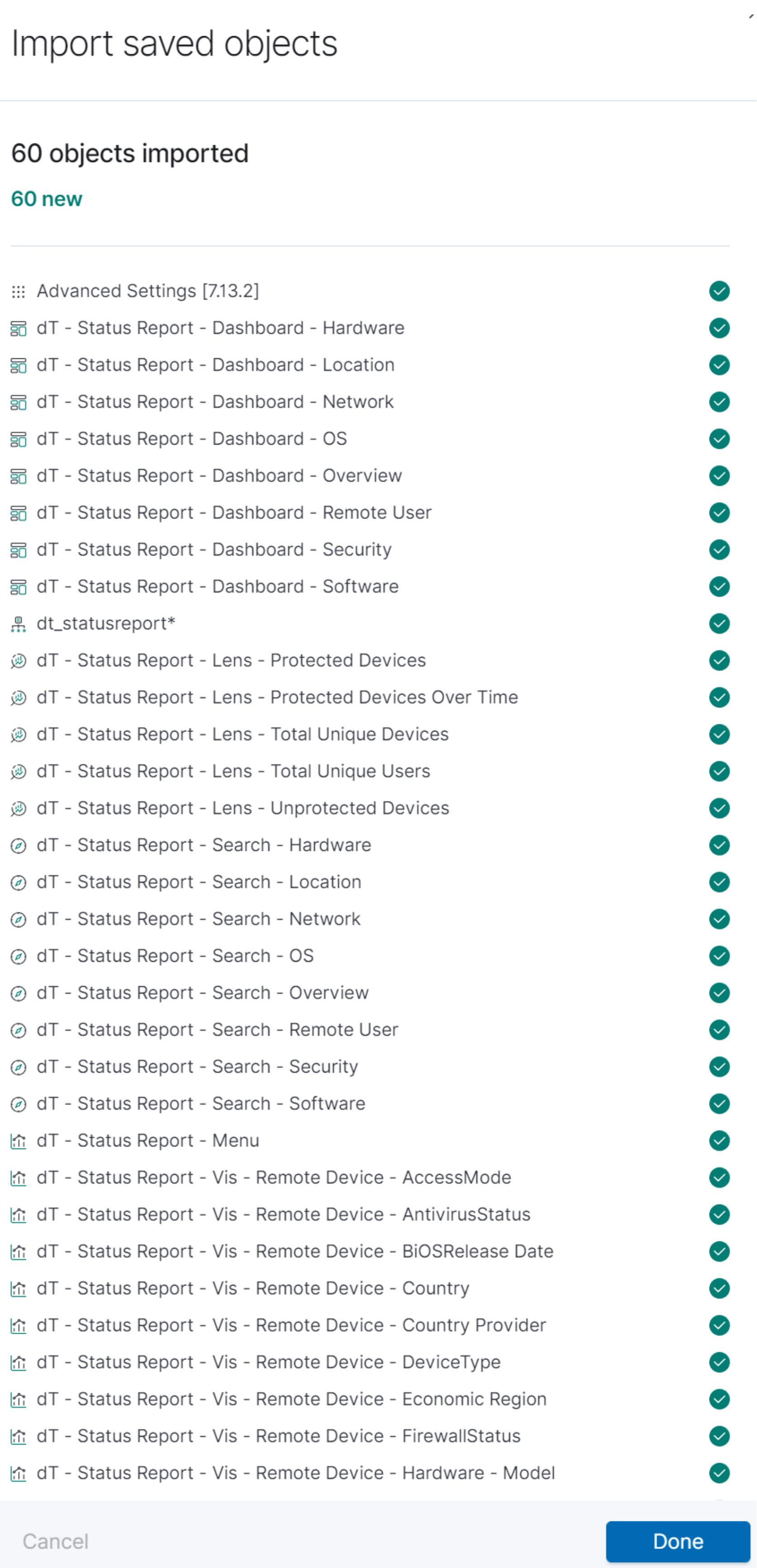
○ Check for existing objects

● Automatically overwrite conflicts

○ Request action on conflict

● Create new objects with random IDs

After importing, an overview of the imported objects will be displayed.



Import saved objects

60 objects imported

60 new

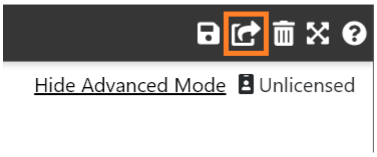
- Advanced Settings [7.13.2] ✓
- dT - Status Report - Dashboard - Hardware ✓
- dT - Status Report - Dashboard - Location ✓
- dT - Status Report - Dashboard - Network ✓
- dT - Status Report - Dashboard - OS ✓
- dT - Status Report - Dashboard - Overview ✓
- dT - Status Report - Dashboard - Remote User ✓
- dT - Status Report - Dashboard - Security ✓
- dT - Status Report - Dashboard - Software ✓
- dt_statusreport* ✓
- dT - Status Report - Lens - Protected Devices ✓
- dT - Status Report - Lens - Protected Devices Over Time ✓
- dT - Status Report - Lens - Total Unique Devices ✓
- dT - Status Report - Lens - Total Unique Users ✓
- dT - Status Report - Lens - Unprotected Devices ✓
- dT - Status Report - Search - Hardware ✓
- dT - Status Report - Search - Location ✓
- dT - Status Report - Search - Network ✓
- dT - Status Report - Search - OS ✓
- dT - Status Report - Search - Overview ✓
- dT - Status Report - Search - Remote User ✓
- dT - Status Report - Search - Security ✓
- dT - Status Report - Search - Software ✓
- dT - Status Report - Menu ✓
- dT - Status Report - Vis - Remote Device - AccessMode ✓
- dT - Status Report - Vis - Remote Device - AntivirusStatus ✓
- dT - Status Report - Vis - Remote Device - BiOSRelease Date ✓
- dT - Status Report - Vis - Remote Device - Country ✓
- dT - Status Report - Vis - Remote Device - Country Provider ✓
- dT - Status Report - Vis - Remote Device - DeviceType ✓
- dT - Status Report - Vis - Remote Device - Economic Region ✓
- dT - Status Report - Vis - Remote Device - FirewallStatus ✓
- dT - Status Report - Vis - Remote Device - Hardware - Model ✓

Step 3.3: Configuring deviceTRUST

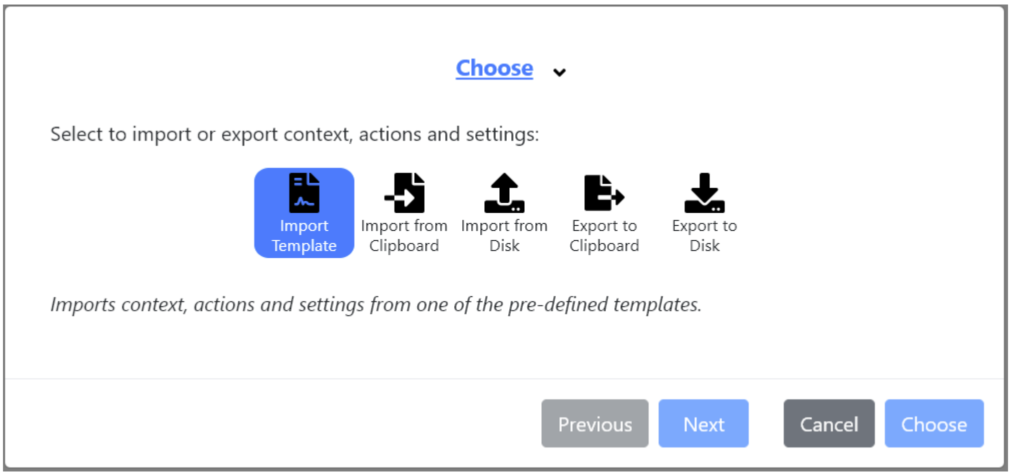
After the Index Mapping has been created, the Saved Objects are included the index has been edited and the agent-side has been configured, the ELK Stack is prepared for storing, sorting, and displaying your data.

The last step is to create the deviceTRUST configuration, that will make sure all required data is provided.

- Open the `deviceTRUST Console`.
- Click `Sharing` in the top right menu. You may need to click `Show Advanced View` if this button is not visible.



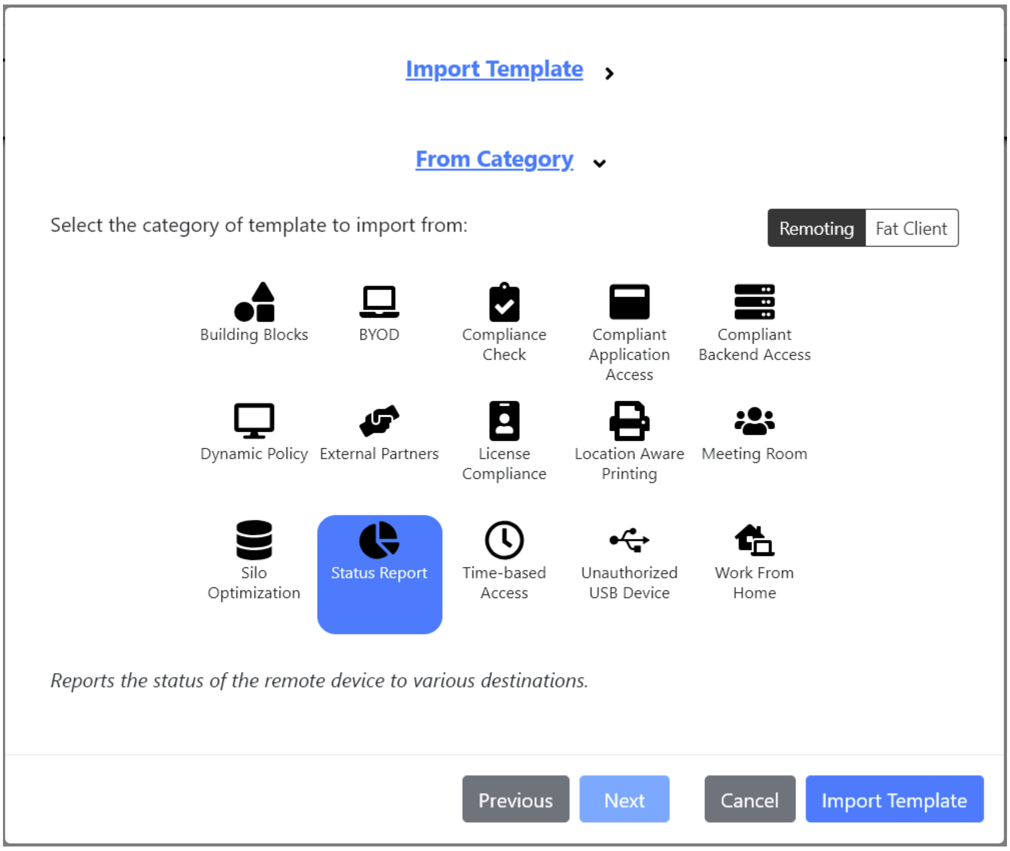
- Select `Import Template`.



Select to import or export context, actions and settings:

Imports context, actions and settings from one of the pre-defined templates.

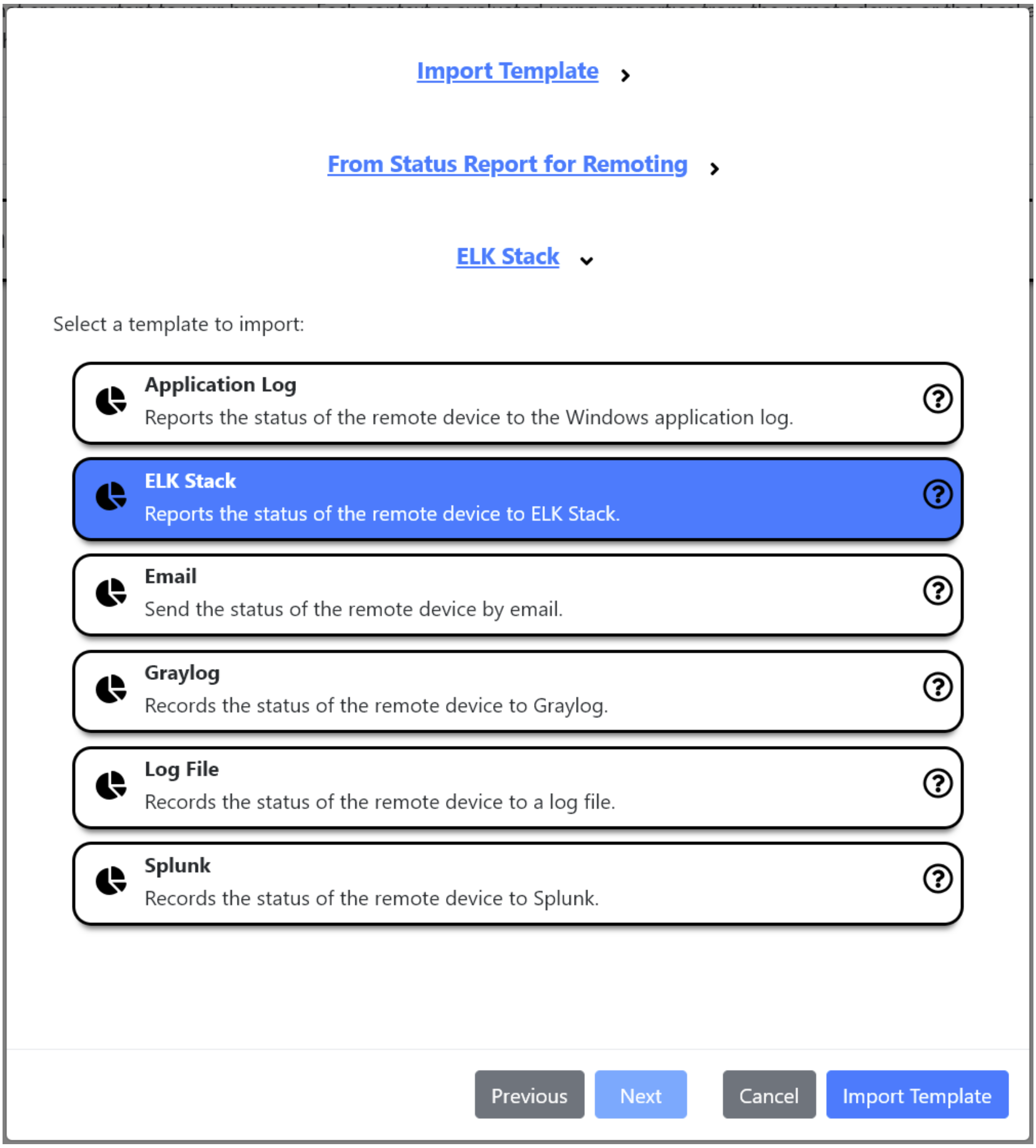
- For `Status Report`, the template category `Status Report` is used.



Select the category of template to import from:

Reports the status of the remote device to various destinations.

- This category contains templates for several ways of storing data. Choose `ELK Stack`.



Import Template ›

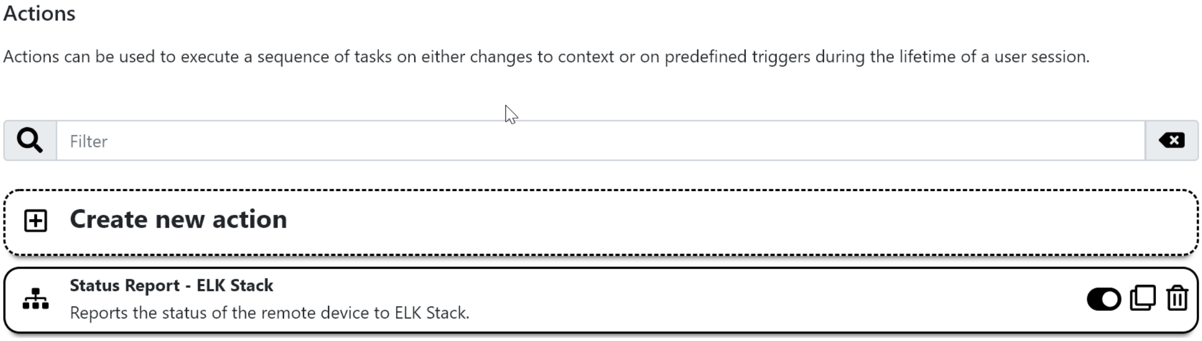
From Status Report for Remoting ›

ELK Stack ⌄

Select a template to import:

- **Application Log** Reports the status of the remote device to the Windows application log.
- **ELK Stack** Reports the status of the remote device to ELK Stack.
- **Email** Send the status of the remote device by email.
- **Graylog** Records the status of the remote device to Graylog.
- **Log File** Records the status of the remote device to a log file.
- **Splunk** Records the status of the remote device to Splunk.

- The imported template consists of 50 contexts and one action.
- The Action `Status Report – ELK Stack` collects all relevant data and sends them over to the ELK Stack.

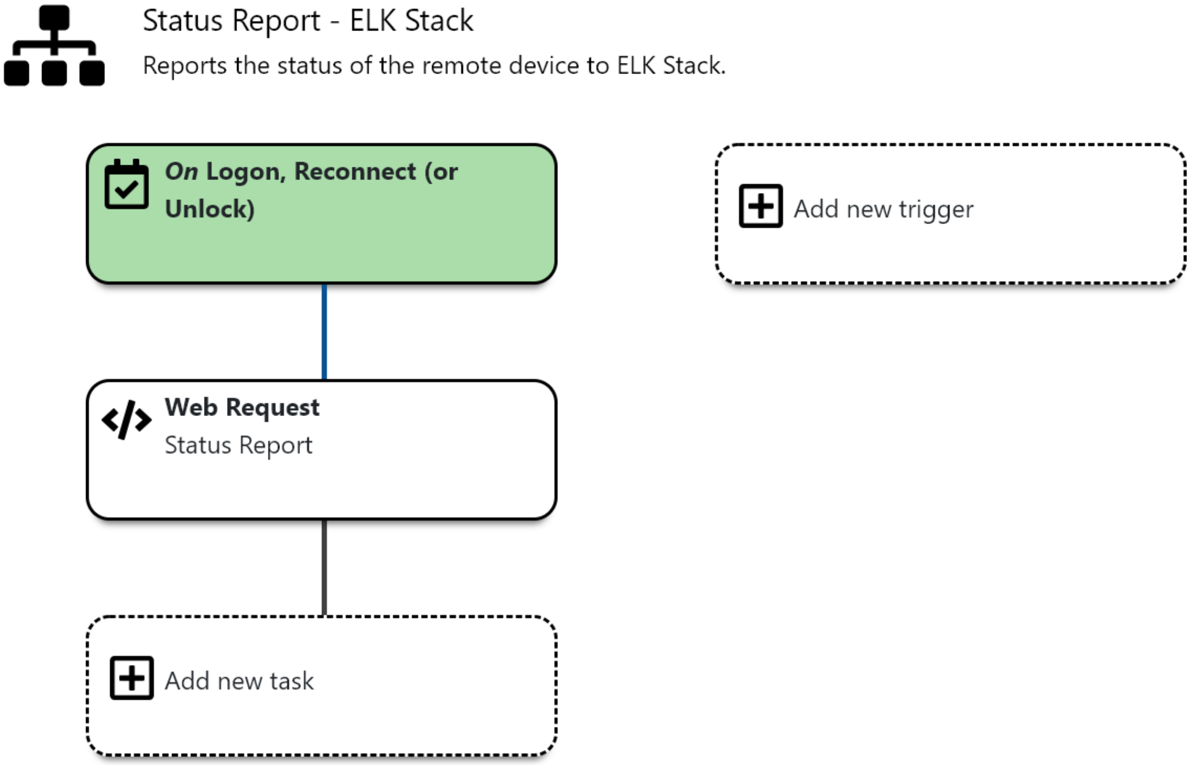


Actions

Actions can be used to execute a sequence of tasks on either changes to context or on predefined triggers during the lifetime of a user session.

Status Report - ELK Stack
Reports the status of the remote device to ELK Stack.

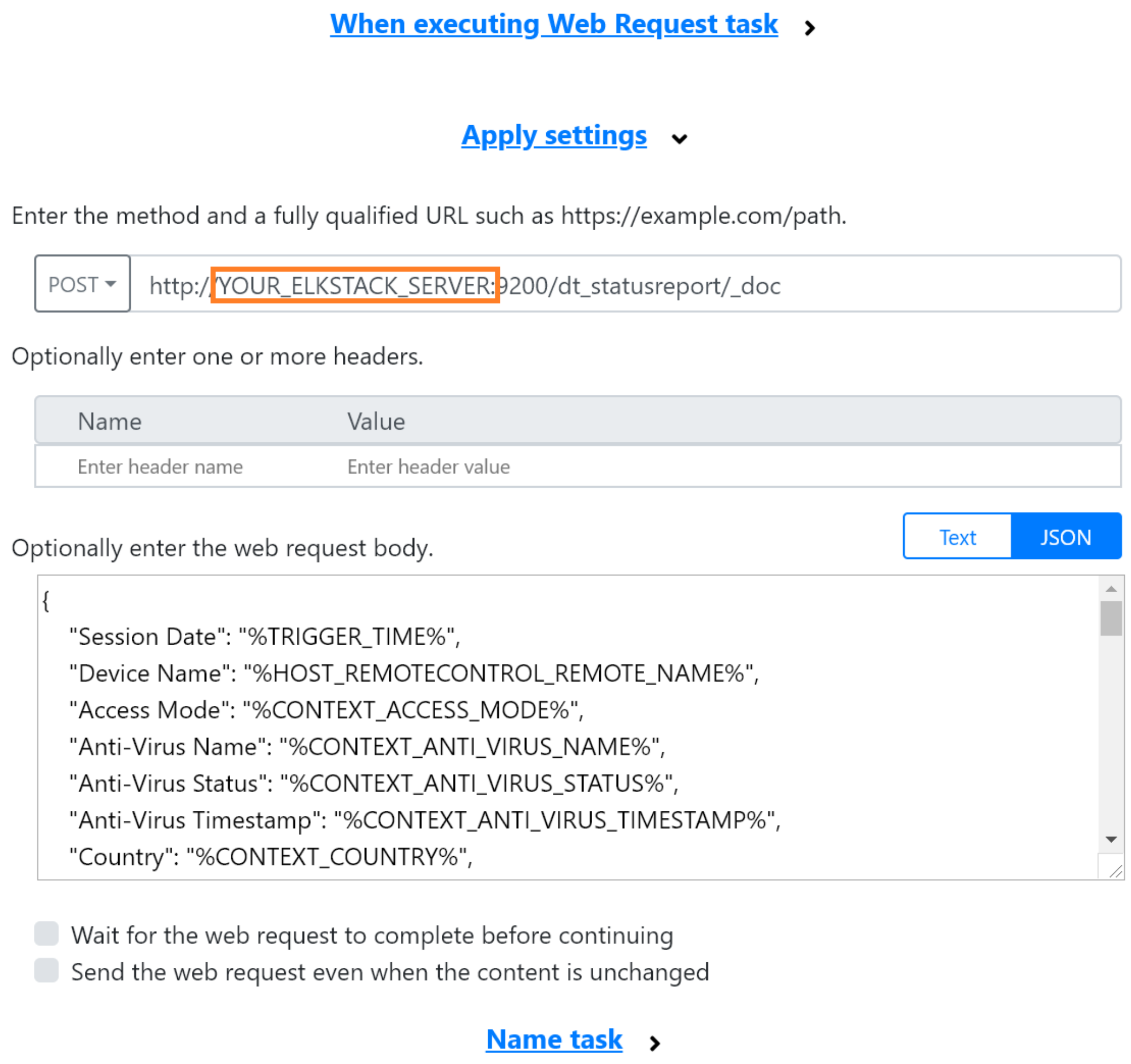
- Sending data to ELK Stack is configured by using a `Web Request` task.



Status Report - ELK Stack

Reports the status of the remote device to ELK Stack.

- The Web Request task must be edited to suit your environment. If you use a basic setup without SSL or authorization, simply adding your `server’s fqdn` will do.



Enter the method and a fully qualified URL such as https://example.com/path.

POST http://YOUR_ELKSTACK_SERVER:9200/dt_statusreport/_doc

Optionally enter one or more headers.

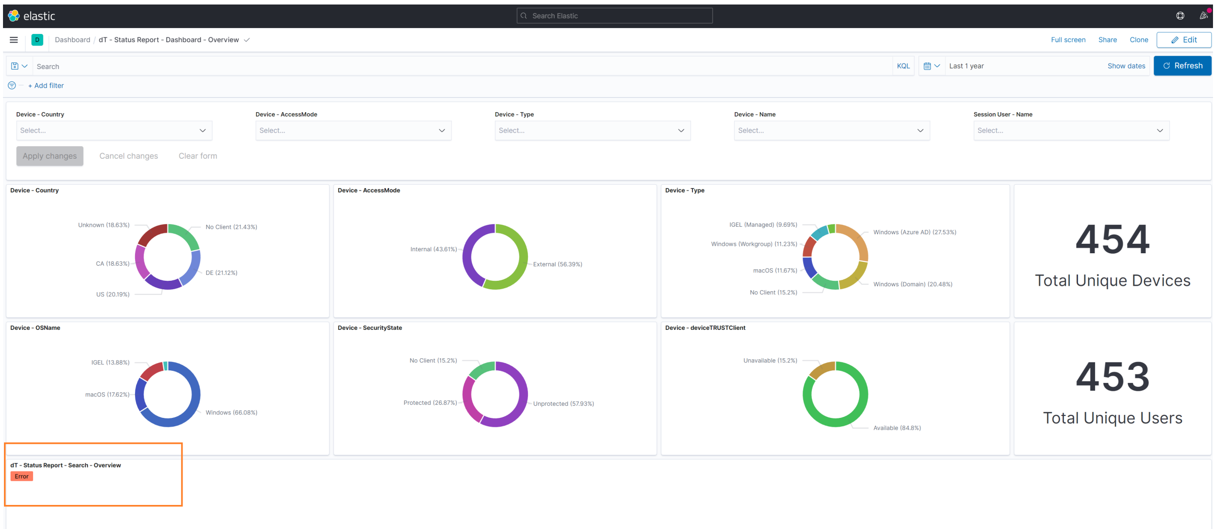
Optionally enter the web request body.

```
{
    "Session Date": "%TRIGGER_TIME%",
    "Device Name": "%HOST_REMOTECONTROL_REMOTE_NAME%",
    "Access Mode": "%CONTEXT_ACCESS_MODE%",
    "Anti-Virus Name": "%CONTEXT_ANTI_VIRUS_NAME%",
    "Anti-Virus Status": "%CONTEXT_ANTI_VIRUS_STATUS%",
    "Anti-Virus Timestamp": "%CONTEXT_ANTI_VIRUS_TIMESTAMP%",
    "Country": "%CONTEXT_COUNTRY%",
```

□ Wait for the web request to complete before continuing
□ Send the web request even when the content is unchanged

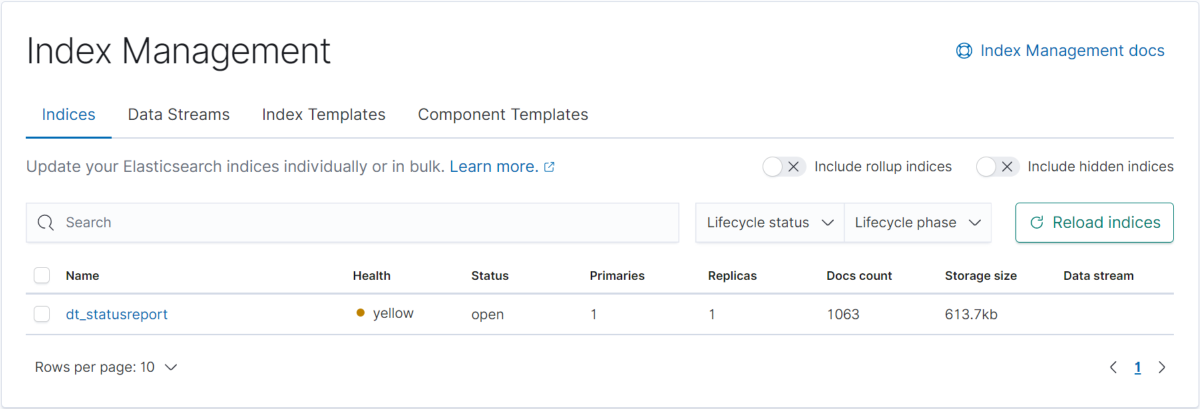
Step 3.4: Edit index settings

For the Status Report Dashboards to work properly, a configuration needs to be made at the index level: In a basic setting, ELK Stack allows to use 25 “calculated fields”per index. For the Status Report Dashboard, 48 calculated fields are used. Thus, the `allowed number of calculated fields` needs to be set to a higher value.



You need to send data to ELK Stack first. Sending data will create the index with basic settings. It can then be edited.

- After sending your first data, you will find the index `dt_statusreport` has been created in the Index Management Menu.



Index Management

Index Management docs

Indices | Data Streams | Index Templates | Component Templates

Update your Elasticsearch indices individually or in bulk. Learn more.

☒ Include rollup indices ☒ Include hidden indices

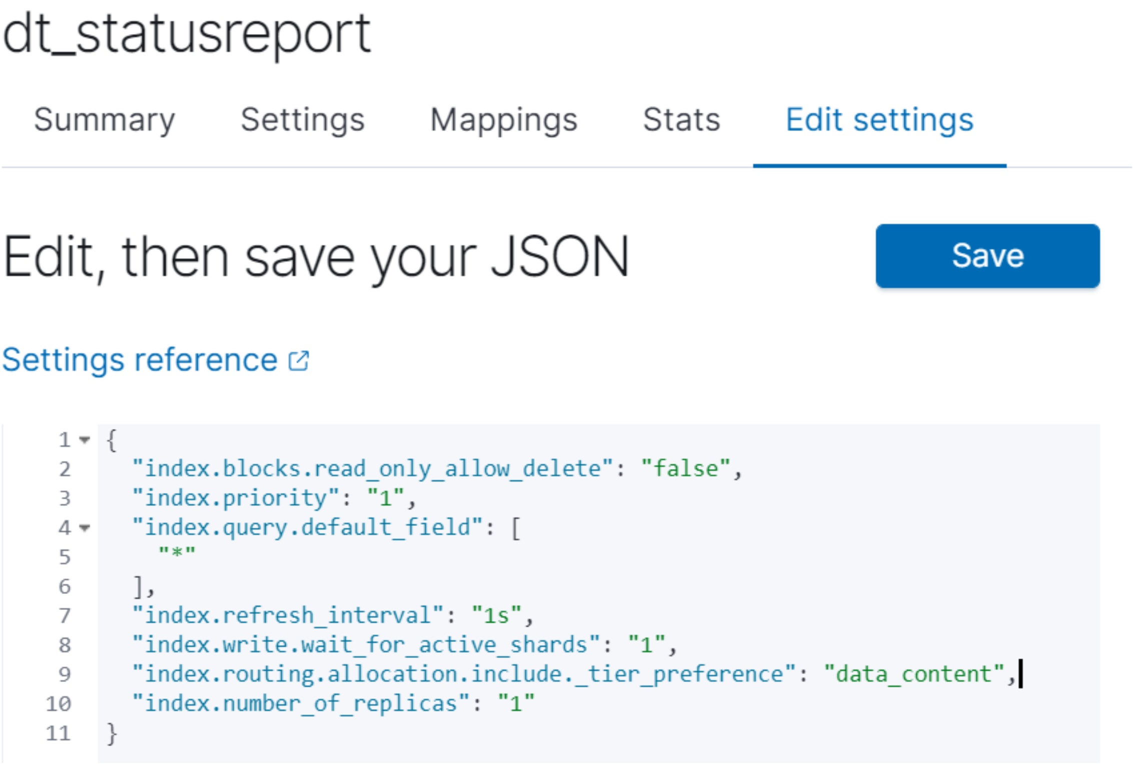
Search | Lifecycle status | Lifecycle phase | Reload indices

□	Name	Health	Status	Primaries	Replicas	Docs count	Storage size	Data stream
□	dt_statusreport	● yellow	open	1	1	1063	613.7kb	

Rows per page: 10

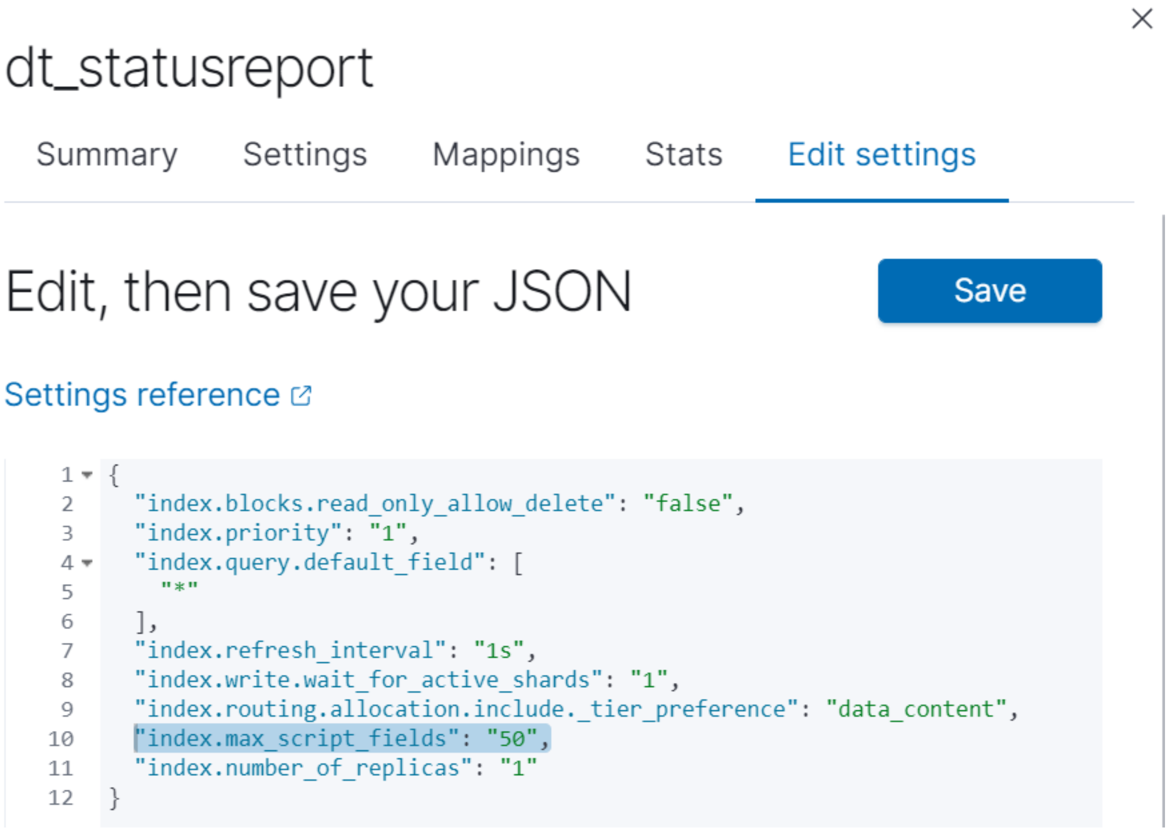
‹ 1 ›

- Select the Index and chose `Edit Settings`. You'll be presented a json configuration view.



```
{
  "index.blocks.read_only_allow_delete": "false",
  "index.priority": "1",
  "index.query.default_field": [
    "*"
  ],
  "index.refresh_interval": "1s",
  "index.write.wait_for_active_shards": "1",
  "index.routing.allocation.include._tier_preference": "data_content",
  "index.number_of_replicas": "1"
}
```

- Add `"index.max_script_fields": "50"` as a new line, making sure to keep the correct json formatting.
- Save your changes.

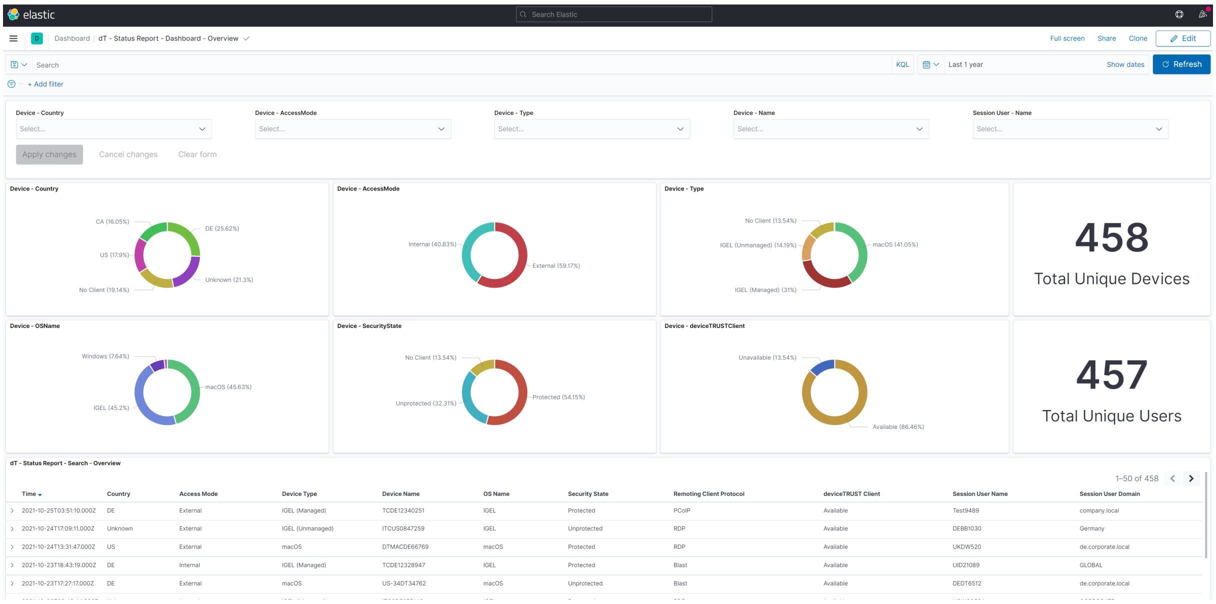


```
{
  "index.blocks.read_only_allow_delete": "false",
  "index.priority": "1",
  "index.query.default_field": [
    "*"
  ],
  "index.refresh_interval": "1s",
  "index.write.wait_for_active_shards": "1",
  "index.routing.allocation.include._tier_preference": "data_content",
  "index.max_script_fields": "50",
  "index.number_of_replicas": "1"
}
```

Your Dashboard will now be displayed without errors.

After the index template has been created and the saved objects are imported, the use case `Status Report` has been implemented successfully.

deviceTRUST now sends status data to ELK Stack on every access to the remoting system. The data is presented in the created dashboards.



Time	Country	Access Mode	Device Type	Device Name	OS Name	Security State	Remoting Client Protocol	deviceTRUST Client	Session User Name	Session User Domain
2021-10-25T03:51:10.000Z	DE	External	IGEL (Managed)	TCDE12340251	IGEL	Protected	PCoIP	Available	Test9489	company.local
2021-10-24T17:09:11.000Z	Unknown	External	IGEL (Unmanaged)	ITCUS0847259	IGEL	Unprotected	RDP	Available	DEBB1030	Germany
2021-10-24T13:31:47.000Z	US	External	macOS	DTMACDE66769	macOS	Protected	RDP	Available	UKDW520	de.corporate.local
2021-10-23T18:43:19.000Z	DE	Internal	IGEL (Managed)	TCDE12328947	IGEL	Protected	Blast	Available	UID21089	GLOBAL
2021-10-23T17:27:17.000Z	DE	External	macOS	US-34DT34762	macOS	Unprotected	Blast	Available	DEDT6512	de.corporate.local

Reference

TABLE OF CONTENTS

Properties

- Access Point Properties - Describes the available Wi-Fi access points.
- Browser Properties - Describes installed internet browsers.
- Cellular Properties - Describes the active cellular capabilities of an endpoint.
- Certificate Properties - Describes the private certificates available within the users certificate store.
- ChromeOS Properties - Provides properties unique to a Google ChromeOS device.
- Custom Properties - Provides a condition that can operate on any property, including custom properties created using 'dtcmd.exe'.
- deviceTRUST Properties - Provides information about whether a connection to a deviceTRUST Client Extension has been established, the version of the deviceTRUST software and the status of the deviceTRUST license.
- Display Properties - Describes the displays available to the user session.
- Domain Properties - Describes the domain membership of the endpoint.
- eLux Properties - Provides properties unique to a Unicon eLux device.
- Hardware Properties - Describes the hardware and its capabilities.
- IGEL Properties - Provides properties unique to an IGEL device.
- Input Properties - Describes the input devices available to the user session.
- iOS Properties - Provides properties unique to an Apple iOS endpoint.
- Location Properties - Describes the geographical location of the endpoint.
- Logical Disk Properties - Describes the logical disks available to the user.
- macOS Properties - Describes properties unique to an Apple macOS endpoint.
- macOS Firewall Properties - Provides real-time properties describing the state of the macOS Firewall.
- macOS Update Properties - Describes the status of macOS Software Update settings and updates.
- Mapped Drive Properties - Describes the mapped drives available within a user session.
- Multihop Properties - Describes the number of hops taken by the user over deviceTRUST connected sessions.
- Name Properties - Identifies the endpoint.

Agent Reference

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Console Reference

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- Settings - Settings Reference

Troubleshooting

If your deviceTRUST installation or configuration does not work as expected, then the Knowledge Base is a useful resource for common problems and resolutions. The following sections detail some useful knowledge base articles depending upon your deployment scenario:

Scenario: Remote

In remote scenarios, deviceTRUST® transports the context information from the user's remote device to the virtual session where the configuration is enforced. Please check the following knowledge base articles:

- Step 1: Make sure that you have a valid license
- Step 2: Check that your contextual security policy has been saved and deployed
- Step 3: Check that the user is managed by deviceTRUST
- Step 4: Check that the deviceTRUST Client Extension is installed on the remote device
- Step 5: Check that Citrix Virtual Channel Security is configured (Citrix Only)
- Step 6: Check that your contexts are correctly defined
- Step 7: Exclude specific users from the deviceTRUST policy
- Step 8: Check that the deviceTRUST Agent service is running
- Step 9: Check that you are using the latest deviceTRUST version

Scenario: Local

In local scenarios, deviceTRUST collects context information and executes actions locally. Please check the following knowledge base articles:

- Step 1: Make sure that you have a valid license
- Step 2: Check that your contextual security policy has been saved and deployed
- Step 3: Check that the user is managed by deviceTRUST
- Step 4: Check that your contexts are correctly defined
- Step 5: Exclude specific users from the deviceTRUST policy
- Step 6: Check that the deviceTRUST Agent service is running
- Step 7: Check that you are using the latest deviceTRUST version

Open a support ticket with us

Additional articles may be found by searching the Knowledge Base. However, if you are still experiencing difficulties please raise a ticket with the Citrix Support Portal at https://support.citrix.com.

Releases

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June 20, 2025

Ubuntu Client Extension 21.1.300

This release includes enhancements and bug fixes to the deviceTRUST® Client Extension for Ubuntu Desktop.

Support for VMware Horizon View

The deviceTRUST Ubuntu Client now includes support for VMware Horizon View using the Blast, PCoIP or RDP protocols. The full list of supported technologies can be found at Operating System Compatibility

Custom Properties for Linux devices

The Custom Properties Settings now supports remote Linux devices. This allows a custom script to be executed on the remote Linux device to return one or more properties beginning with REMOTE_CUSTOM by writing e.g. `REMOTE_CUSTOM_NAME=VALUE` to the output.

Minor enhancements

- Added VPN and Adapter properties to the WHOIS results.

Bug Fixes

- Fixed a potential crash during the logoff or disconnect from a session.

Compatibility

There are no compatibility concerns with this release of the deviceTRUST Ubuntu Client.

macOS Client Extension 21.1.300

This release includes enhancements and bug fixes to the deviceTRUST® Client Extension for macOS.

Native support for Apple silicon

We've integrated native support for Apple silicon processors, such as the Apple M1 and M2, alongside our existing support for Intel processors into a single universal installation package. This removes the previous requirement for Rosetta 2 translations. A remoting client that is also built with native Apple silicon support is required, and is therefore currently supported with the following clients:

- Citrix Workspace App for macOS v22.11.0.12 or later.
- FreeRDP v2.8.2 or later.
- VMware Horizon View v8.7.0 or later.

Bug Fixes

- Fixed an issue where Location properties were unavailable on macOS Ventura.
- Fixed an issue where Display properties contained unavailable Adapter and Monitor products and vendor properties on Apple silicon processors on macOS Ventura.
- Fixed a potential crash during shutdown of the remoting client.

Compatibility

There are no compatibility concerns with this release of the deviceTRUST macOS Client.

deviceTRUST 21.1 SP2 (version 21.1.310)

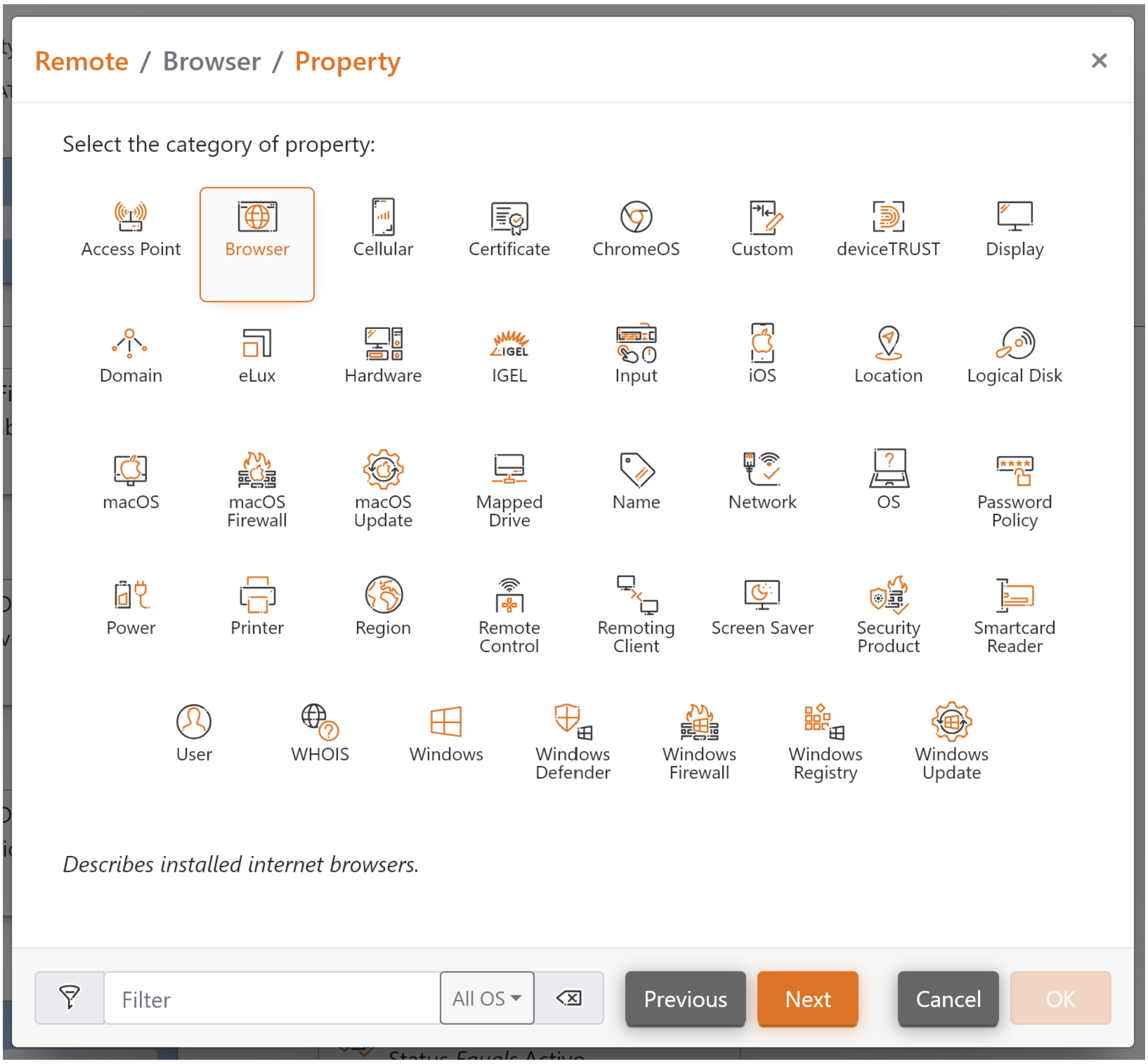
This service pack release includes minor features and bug fixes to the deviceTRUST Console, Agent and Client Extension for Microsoft Windows. See deviceTRUST 21.1.210 release notes for full details of the changes introduced in 21.1.210. Please refer to Compatibility for changes that may impact users upgrading from previous releases.

The deviceTRUST 21.1.310 patch includes bugfixes and minor enhancements to the deviceTRUST Console, Agent and Client Extension.

- User interface refinement
- New Cloud Templates
- Other changes
- Bug fixes in 21.1.300
- Bug fixes in 21.1.310
- Minor enhancements to 21.1.310
- Compatibility

User interface refinement

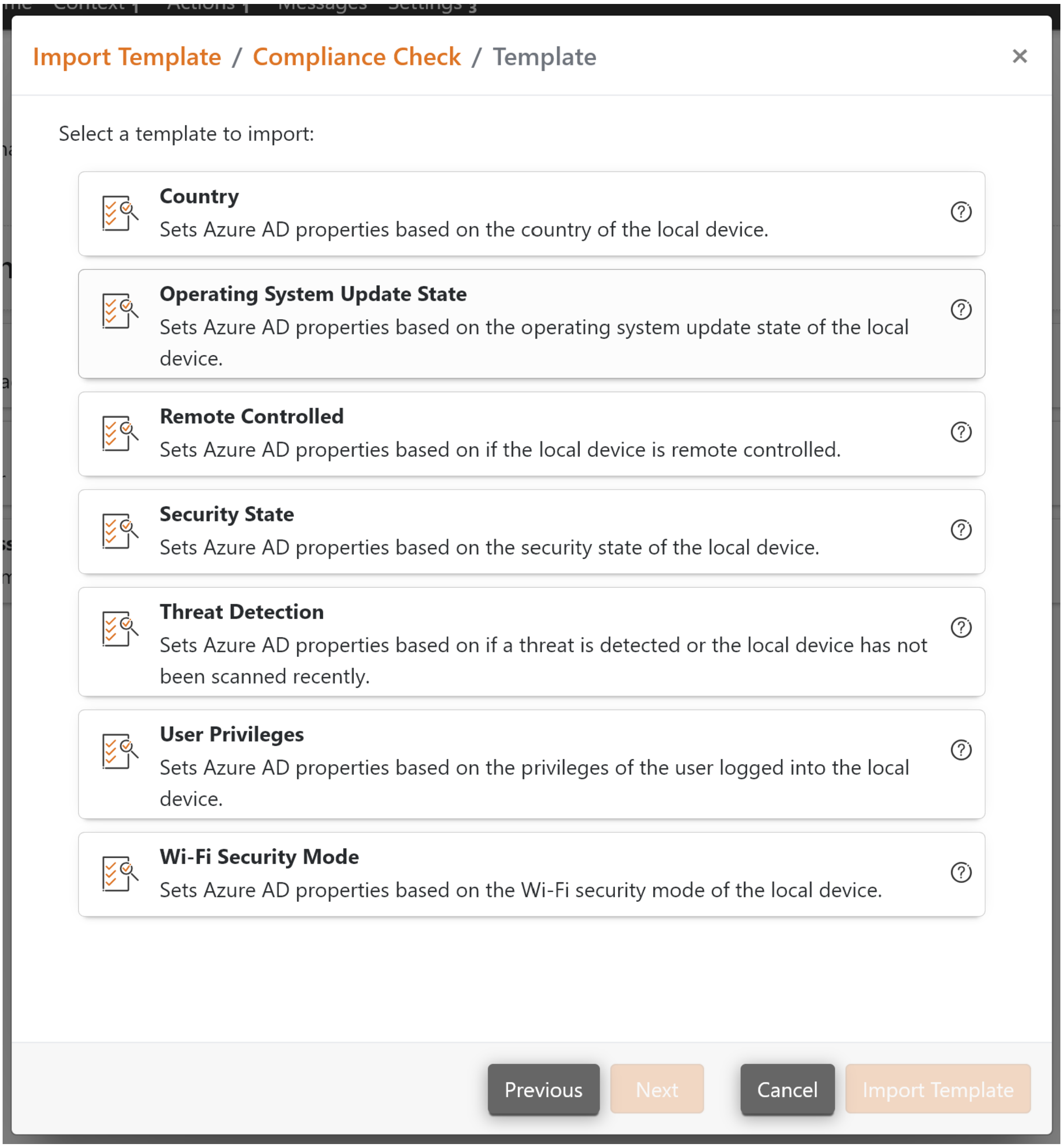
We've refined the branding within the deviceTRUST® Console, and also enhanced the layout of many of our pages. This includes the context condition picker, which now offers a filter allowing faster navigation of properties either by name or by their supported operating system.



Describes installed internet browsers.

New Cloud Templates

A new collection of templates targeting the cloud and our Azure AD integration has been added. More information can be found cloud.



Select a template to import:

Country
Sets Azure AD properties based on the country of the local device.

Operating System Update State
Sets Azure AD properties based on the operating system update state of the local device.

Remote Controlled
Sets Azure AD properties based on if the local device is remote controlled.

Security State
Sets Azure AD properties based on the security state of the local device.

Threat Detection
Sets Azure AD properties based on if a threat is detected or the local device has not been scanned recently.

User Privileges
Sets Azure AD properties based on the privileges of the user logged into the local device.

Wi-Fi Security Mode
Sets Azure AD properties based on the Wi-Fi security mode of the local device.

Other changes

- The Custom Properties Settings now supports remote Linux and IGEL devices. The forthcoming deviceTRUST Client Extension 21.1.300 or later for IGEL and Linux devices is required.
- The Terminate App task now groups together processes with matching names and parent / child relationships.
- When configured with mobile integration, the deviceTRUST Agent no longer calls to the server on Citrix® platforms when Citrix reports that the remote device is Windows, Linux or macOS.

Bug fixes in 21.1.300

- Fixed an issue where the Please Wait screen would appear on Local console sessions even when the `Block user session during Logon and Reconnect (or Unlock)` advanced setting was enabled.
- Fixed an issue where multiple resizes of a full screen Citrix session would occur during an Unlock on a Local device running the deviceTRUST Agent.
- Fixed an issue where Remote Custom Properties for Windows would not work when using Local Custom Properties on the same device.
- Fixed an issue where the WHOIS country could be cached even when it was empty.
- Fixed an issue where the deletion of properties would fail when the remote device was running the deviceTRUST Client Extension 20.2 or earlier.
- Fixed an issue where the Terminate App task, when matching processes by process name, could be triggered when the context filter no longer matches.

Bug fixes in 21.1.310

- Fixed a bug where the deviceTRUST Console would very rarely save or export encrypted deviceTRUST Policy files with a truncated random key, preventing the policy from being loaded.
- Fixed issue where Event ID's 201, 202 and 203 from remote custom properties execution would have a 1970 trigger time.

Minor enhancements to 21.1.310

- Added support for session idle time of remote Windows devices.
- Added support for the Popup Task to execute a named trigger when the default OK button is clicked.
- Updated the deviceTRUST Console's supported remote device properties available on Linux, IGEL and iOS platforms.

Compatibility

Please refer to our general approach to compatibility which can be found on the compatibility page.

If upgrading from a version older than deviceTRUST 21.1.210, be sure to refer to the deviceTRUST 21.1.210 Compatibility notes.

IGEL Client Extension 21.1.310

This release includes new features and bug fixes, and is natively integrated into IGEL OS 11.08.200 and later.

Custom Properties for IGEL OS devices

The Custom Properties Settings now supports remote IGEL OS devices. This allows a custom script to be executed on the remote IGEL device by writing `REMOTE_CUSTOM_NAME=VALUE` to the output.

Native IGEL OS integration

IGEL OS 11.08.200 now supports native integration of the deviceTRUST Client Extension for Amazon WorkSpaces, Citrix Workspace App, Microsoft Azure Virtual Desktop and Free RDP. Additionally, VMware Horizon View is supported in IGEL OS 11.08.230. For more information, see Supported IGEL Operating Systems for Client Extension.

Bug fixes

- Fixed an issue where the Third Party Geolocation provider could fail to determine a position.

Known issues

- We don't have the necessary permissions to determine the *REMOTE_HARDWARE_BIOS_SERIAL* property on an IGEL device. Until we have a permanent solution, this can be solved by running `dmidecode -s system-serial-number > /wfs/bios_serial_number` within the IGEL configuration at System -> Firmware Customization -> Custom Commands -> Base -> Final initialization command. Please note that the location of this file has changed in this release.

Compatibility

Please see the Known issues for a change to the default location of the `bios_serial_number` file.

There are no other compatibility concerns with this release of the deviceTRUST® IGEL Client Extension.