

ROBOTICS DIGITAL SOLUTIONS

# OptiFact™ - Edge Config Tool Manual

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# 1. Introduction

Edge Config Tool (ECT) is an app designed to configure the OptiFact instance and general application settings.

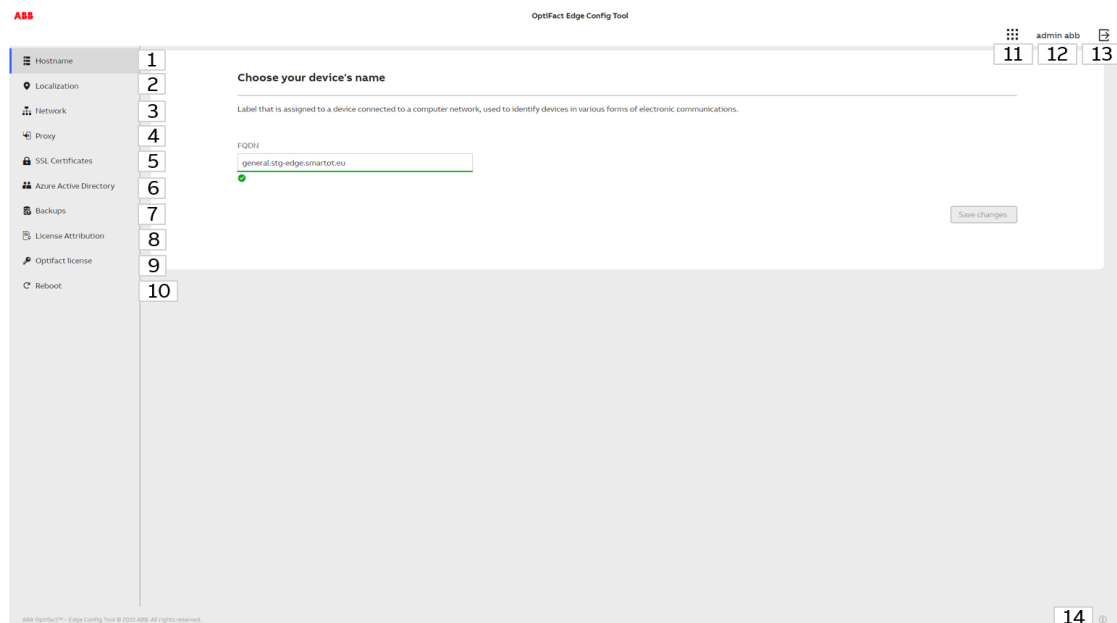
To have access to this application, it is required to have the ECT admin role assigned to the group where the logged in user belongs.

This document covers the functionality of Edge Config Tool, where you will learn how to, for example, setup Azure Active directory for Single sign on, Configure Proxy or add SSL certificates.

<b>Who should read this manual?</b>	This manual is intended for the person in charge of the initial configurations after the installation. The first configuration should be done by the Super Admin user.
<b>Prerequisites</b>	<ul style="list-style-type: none"> <li>The OptiFact must already be installed on an edge device or virtual machine.</li> <li>Admin and Super Admin roles must be assigned to the appropriate personnel for user and password management.</li> </ul>

The Edge Config Tool can be reached from the Portal App Launcher by clicking its icon .

## 2. Navigating the ECT app



1. Hostname tab.
2. Localization tab.
3. Network tab.
4. Proxy tab.
5. SSL Certificates tab.
6. Azure Active Directory tab.
7. Backups tab.
8. License Attribution tab.
9. Optifact License tab.
10. Reboot tab.
11. Application selector (shared component that allows the user to easily navigate to another Optifact application installed in his machine)
12. Logged in user.

13. Logout button.

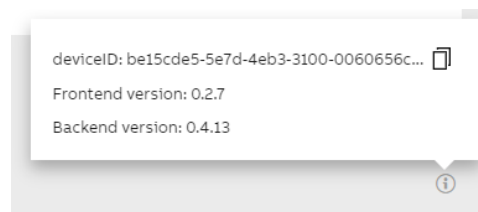
14. Application version.


**DISCLAIMER:** The UI of Edge Config Tool is going to change soon. Functionalities will remain the same, simply the information will be re-organized and re-structured.

### 3. Finding your Optifact device ID

After completing OptiFact installation, an individual ID will be created that is used by ABB to identify your edge. This is mandatory information to include when you raise a support request. Follow the instructions below to find and copy your device ID.

From any Edge Config Tool tab, click on the information icon in the bottom right corner:



Click on the copy button  .

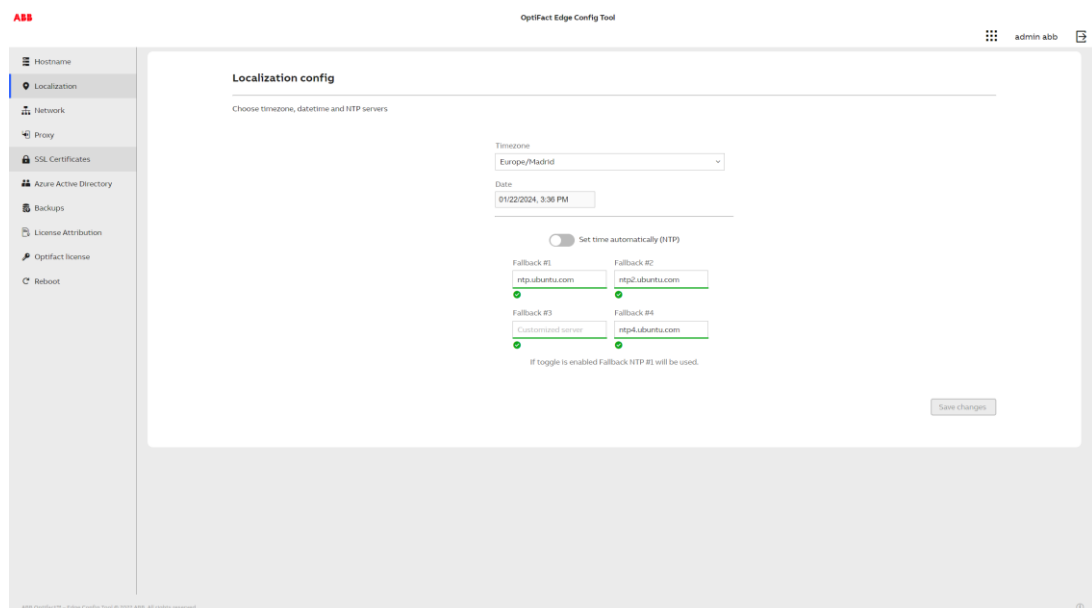
Paste your device ID wherever you prefer to save that.

**Note:** The device ID will change only if you reinstall OptiFact or change your server's hostname as described [here](#).

Moreover, the Edge Config Tool versions numbers are shown.

### 4. Localization

Localization is the tab where you can define the correct time zone depending on the geographical location.

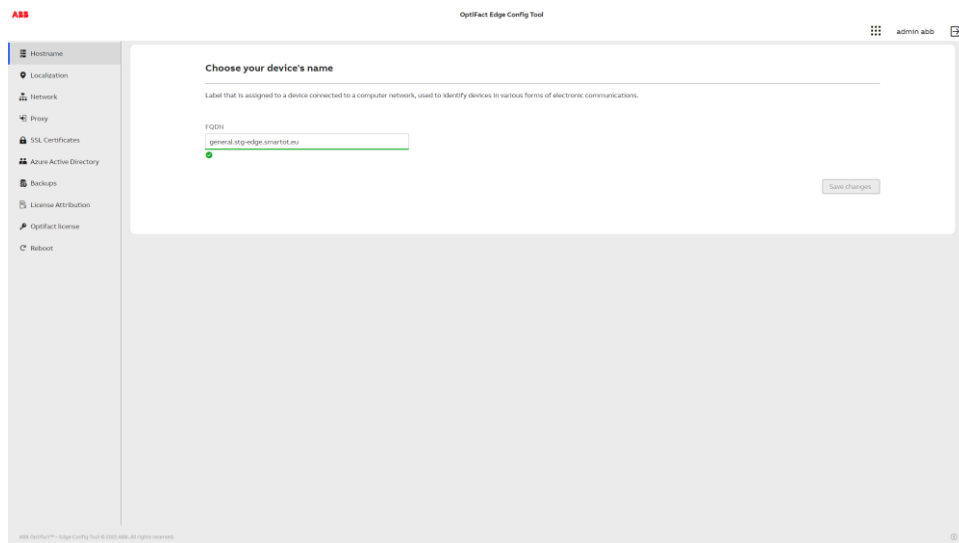


**Note:** Please, in case of doubts configuring NTP servers, time zones, etc., contact your IT department.

## 5. Hostname

This tab is an optional configuration to change the hostname and edge domain. Users can add or remove custom domains, which can be used to access Optifact without using the IP address. **It is important to ensure with your IT department which hostname and edge domain you can use here to avoid conflicts in your network.**

The FQDN format has some limitations that are validated while typing it, such as: a maximum of 63 characters in all the clauses (space between two dots).

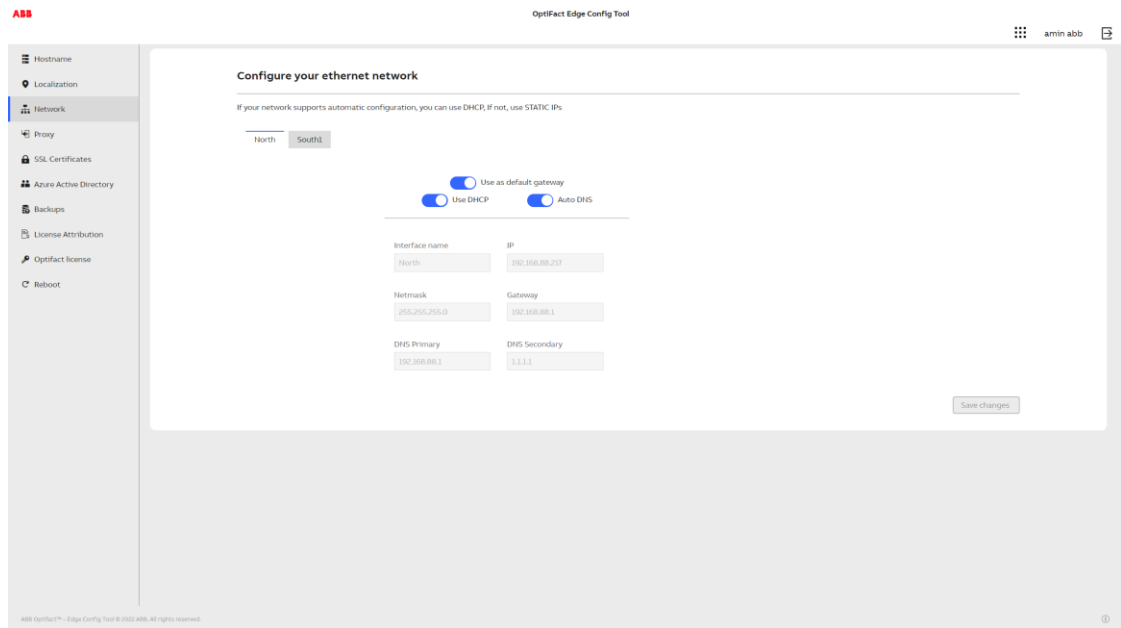


**Note:** After saving the changes, the entire application will restart.

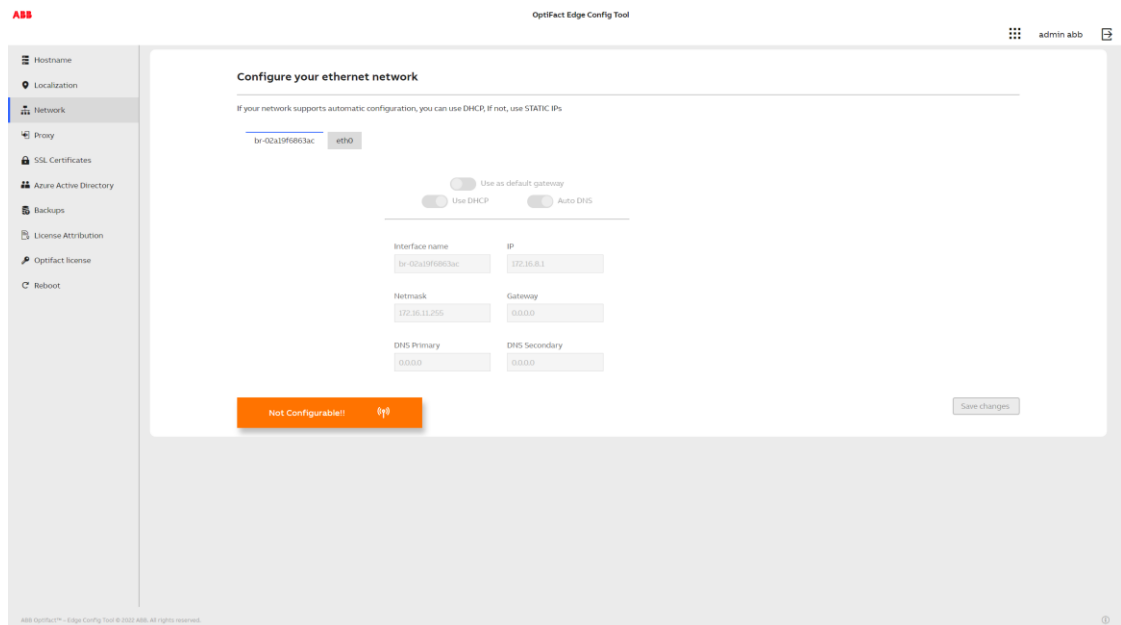
## 6. Network

This tab is an optional configuration for edge devices since this could be done in the Ubuntu Server system and not applicable for virtual machines.

Case for physical edges:



Case for virtual machines:



## 6.1. Configuring network interface

To configure your network is important to be aware that only one ethernet interface can be set as default gateway so make sure that you are enabling the right option.

Remember that this network configuration **should be defined by your IT department** and set up under IT supervision and approval. Do not hesitate to request appropriate support from your IT department.

**Note:** It is strongly recommended to **reboot** entirely OptiFact after saving this configuration.

## 7. Proxy

If your network requires a proxy to connect to the internet, you should input the details of your proxy. Ask your system administrator or IT department first about the proxy details.

Fill in the fields and click on *Save Changes*

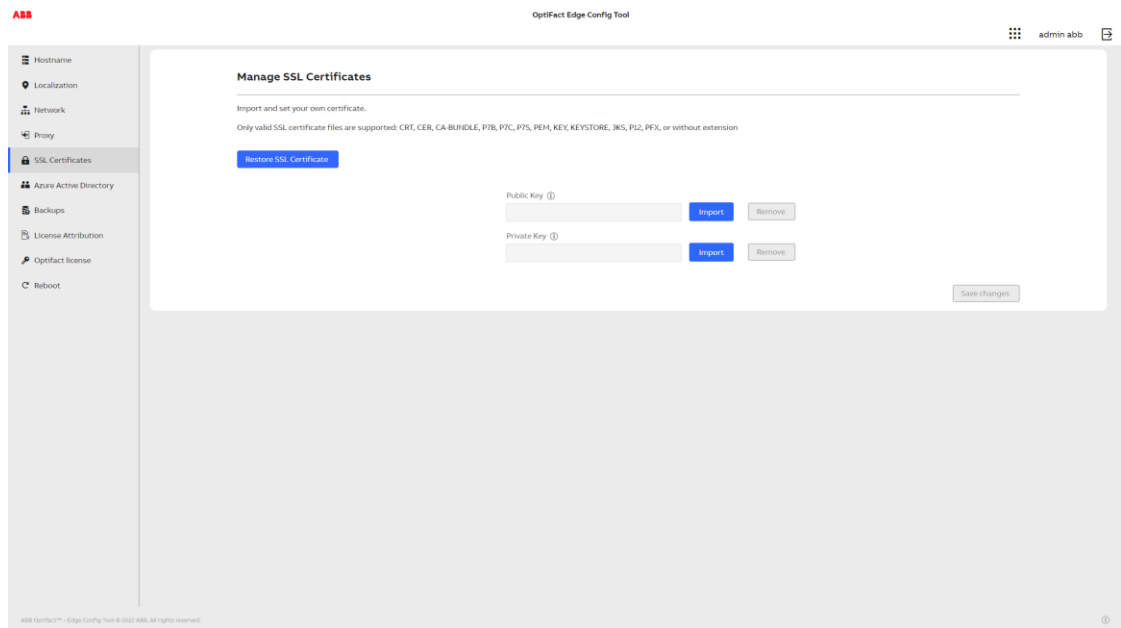
Save changes

The screenshot shows the 'Proxy (Optional)' configuration page in the OptiFact Edge Config Tool. The page has a sidebar on the left with navigation options: Hostname, Localization, Network, Proxy (selected), SSL Certificates, Azure Active Directory, Backups, License Attribution, Optifact license, and Reboot. The main content area is titled 'Proxy (Optional)' and contains a warning message: 'If your network needs a proxy to connect to the internet, place here the IPs. If you do not have them, ask your system administrator. If you prefer to configure the proxies later, click Continue without filling in the text fields.' Below this, there are two input fields: 'HTTP/s' with the value '0.0.0.0' and 'Port' with the value '4000'. Both fields have a green checkmark to their right. There is a checkbox labeled 'Add user and password to the HTTP proxy server.' which is currently unchecked. Below the checkbox are two input fields for 'User' and 'Password'. A 'Save changes' button is located at the bottom right of the form area. The footer of the page reads 'ABB Optifact™ - Edge Config Tool © 2022 ABB. All rights reserved.'


**Note:** It is strongly recommended to **reboot** entirely OptiFact after saving this configuration.

## 8. SSL Certificates

This configuration tab allows to upload SSL certificates, which are used in secure communication via web interface.



### Note:

- Only valid SSL certificate files are supported such as CRT, CER, CA-BUNDLE, P7B, P7C, P7S, PEM, KEY, KEYSTORE, JKS, P12, PFX, or without extension.
- The size limit for each file is 512KB.
- When uploading the certificates and saving changes, the corresponding validations on the certificates (validity, format, etc) are done.
- Once the certificates have been saved, users can confirm when they were uploaded. Click on *information icon* <sup>(i)</sup> of the respective certificate to check this information.
- If needed to revert the certificate to the default certificate, click on *Restore SSL Certificate*   
 

## 9. Azure Active Directory

OptiFact can be integrated with Azure Active Directory (AAD) for user authentication. To enable this integration, you need these mandatory requirements to be configured previously in your Azure Portal. Please ask your IT to do it.

On the Azure Active Directory tab, fill in the existing fields related to the cloud configuration. Please, this data must also be requested to your IT.

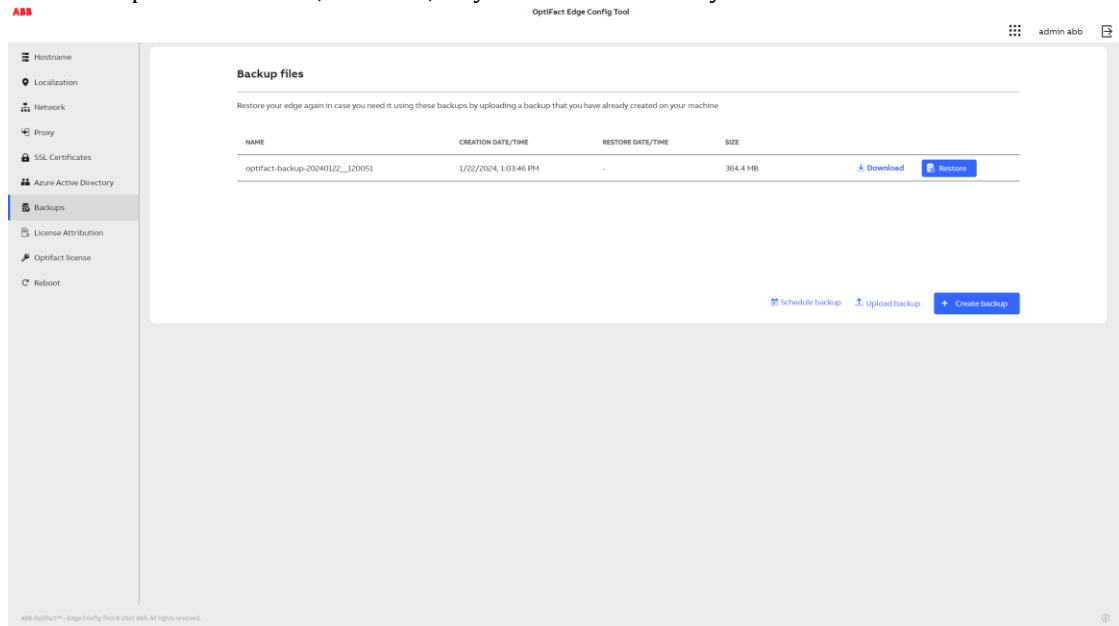
### Explanation of the *Attributes Mapping* fields:

- First Name, Last Name and Email: These fields expect the name of the property used in your Active Directory. So, these fields are not required for login, but only for the Azure Active Directory configuration.

## 10. Backups



Here backups can be created, are listed, they can be restored. They can be scheduled.



By internal configuration that cannot be modified, a maximum of 2 completed backups are listed in Edge Config Tool.

If a backup is bigger than 200 MB, it is automatically splitted into parts (200 MB each part at most). To restore the backup (and have it visible in Edge Config Tool), all the parts need to be uploaded. Please remember that, if the same part is uploaded more than once, this will not generate any duplication of files (and only one part is considered).

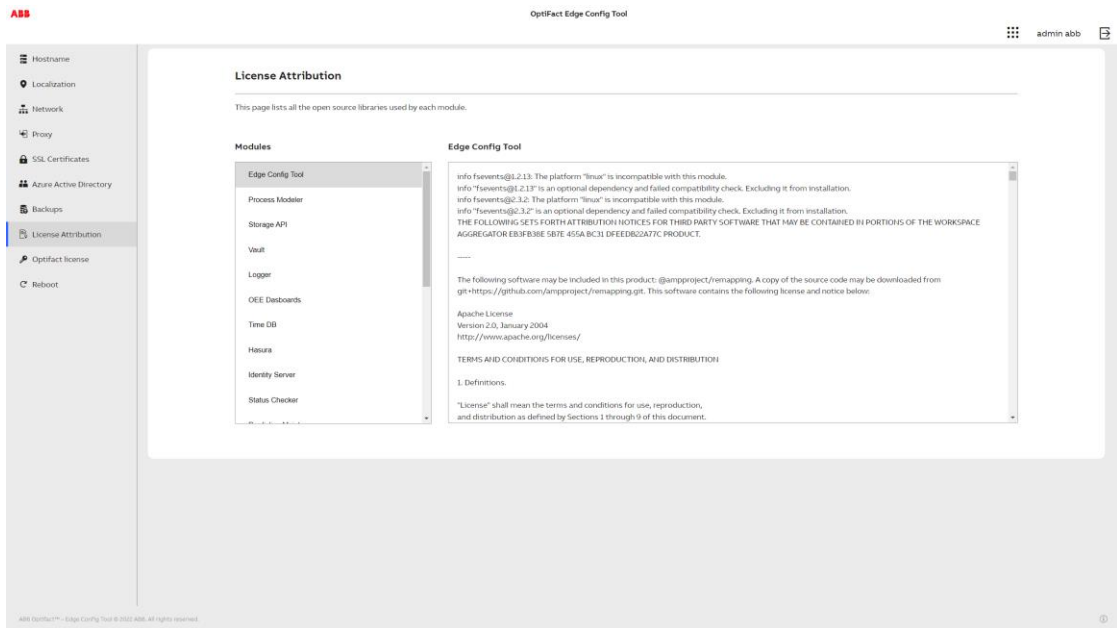
By default, a backup is created every 7 days, and this frequency can be modified (and set to daily, weekly, monthly) by clicking on the “Schedule backup” button.

It must be considered that, while a backup is being created, Edge Config Tool is blocked, so the user must wait for the backup creation to be finished.

**Note:** The backup files are secured so they cannot be modified (nor the filename nor its content). If this happens and the file is modified, it will not be possible to restore this backup. This is a security measure that prevents the upload of a corrupted backup.

## 11. License Attribution

All the open-source libraries used by each module being part of Optifact are listed in this tab.



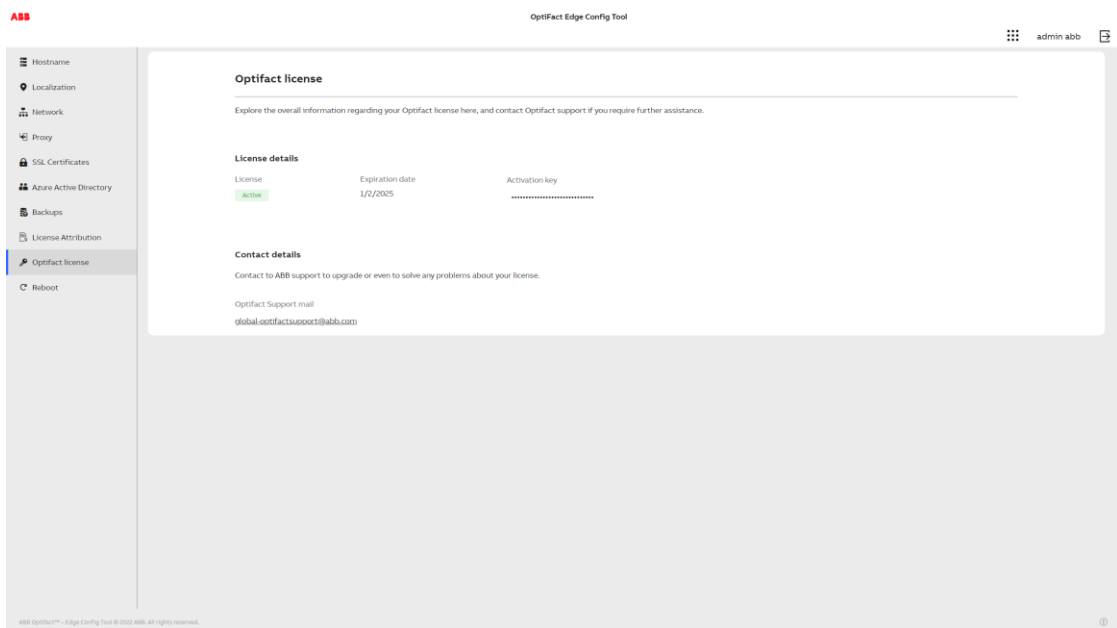
## 12. Optifact License

In this tab, license details can be found, and the Optifact License can be renewed.

The license details available are:

- License Status (Active or Expired)
- Expiration date

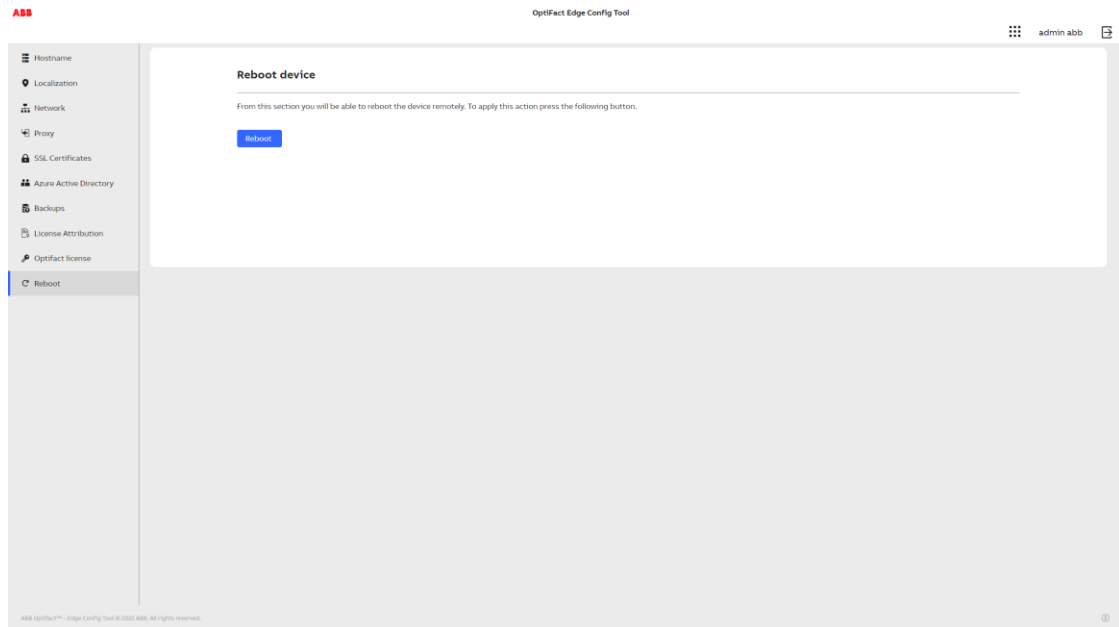
Moreover, the “Activation key” field can be activated by clicking on it and an activation key can be inserted (operation to be performed to introduce a new license or to renew the license if the current one has expired, or it is going to expire).



**Note:** The Activation key is provided by support

## 13. Reboot

If you need to reboot your edge after changing your configuration, use this option. This will do a safe reboot in your edge.



**Note:** This process will take around 2-15 minutes to be finished. The time will depend on the server hardware.

## 14. Questions & Support

To request support to OptiFact team send an email to [global-optifactsupport@abb.com](mailto:global-optifactsupport@abb.com).