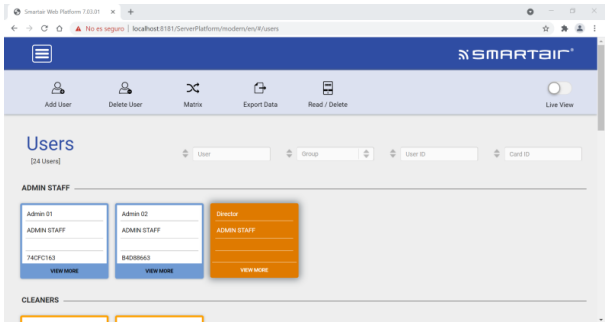
Document ID	Revision	Date **April 2021**	Document category **Instruction**	
Confidentiality level **Public**			Status **Approved**	Page (of) **1 (10)**

SMARTair® Web Encoder

Technical Manual

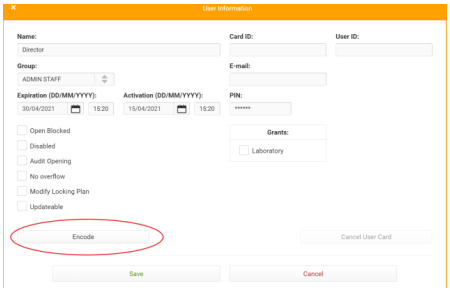
1. Introduction



The new web manager RFID encoder functionality, allow us to encode physical RFID cards from the SMARTair web manager using the RFID encoder.

Until now, to encode physical RFID cards on a remote device, we had two possibilities:

- Installing the TS1000 Client.
- Installing the remote encoding software (with the web manager).



In both cases, depending on the connection we had to the server and on the dimension of the database, the process could run very slow.

With the new functionality, we will be able to encode RFID credentials in a fast way, from the SMARTair web manager. Independently to the size of the database and the connection to the server.

We will just need, to install the **SMARTair Encoding Agent**. That will be automatically download from the cloud, the first time we try to encode an RFID credential.

This will improve considerably, the RFID credentials encoding process. Specially, in multisite and/or remote installations.

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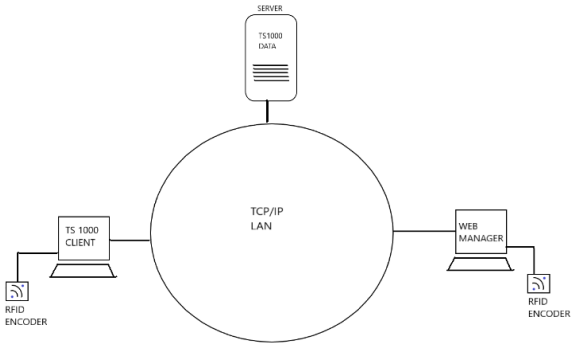
2. Possible installation architectures

The following are some examples about the different installation architectures we may have:

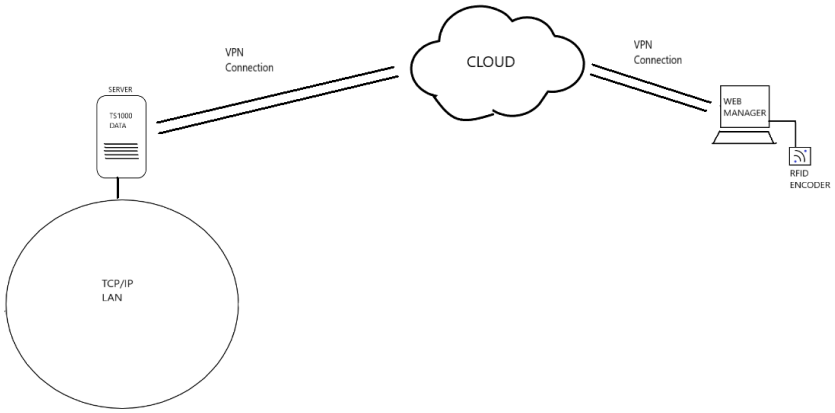
2.1. Running the web manager in a device in the same LAN

When we are running the web manager in a device that is connected to the same local area network, where the TS1000 software is installed, and the database stored.



2.2. Running the web manager outside the LAN (with a VPN connection)

When we are running the web manager, outside the local area network (LAN) where the TS1000 software is installed and the Database is stored. And we are using a Virtual Private Network (VPN) to make the connexion with the database.



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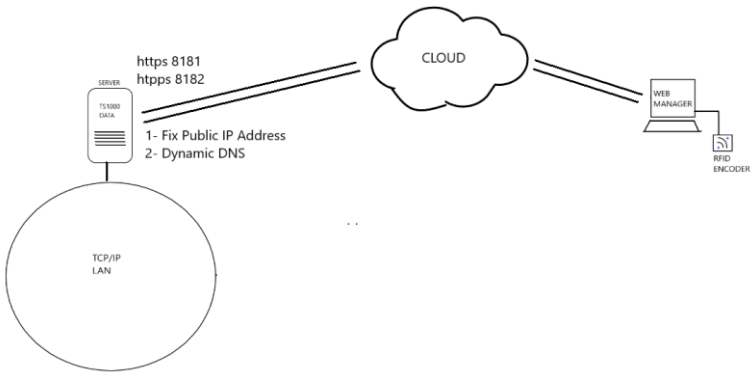
2.3. Running the Web Manager outside the LAN (without any VPN)

When we are running the web manager, outside the local area network (LAN) where the TS1000 software is installed and the Database is stored. And we are NOT using a Virtual Private Network (VPN) to make the connexion with the database. We are using just pure internet.

Here we have to remember that there are two possible ways to have the possibility to access to the database: 1- Using a fix public IP address. 2- Using a dynamic DNS.



3. Web Encoder Setup

3.1. Compatible software versions

TS1000 Software 07.02.01 or higher

3.2. Software License

To activate the web encoder functionality in the software license it is necessary to make a software upgrade with one of the following article numbers (using the export / import license option in the TOOLS program).

Art. Number	Description
SNCCLICWEBENC30	UPGRADE TS1000 WITH WEBENC 30
	For software licenses up to 10 and 30 number of doors.
SNCCLICWEBENCOD	UPGRADE TS1000 WITH WEBENCODER
	For software licenses up to 75 and unlimited number of doors.

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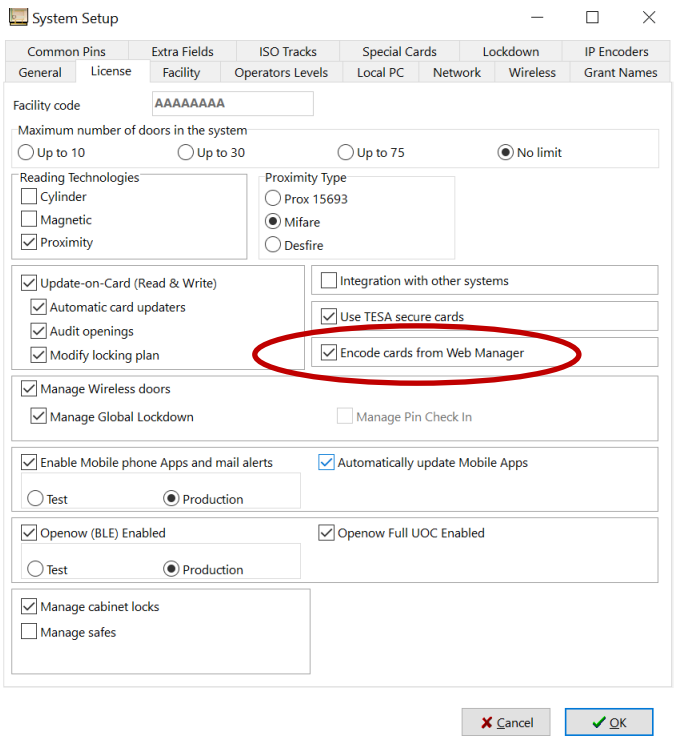
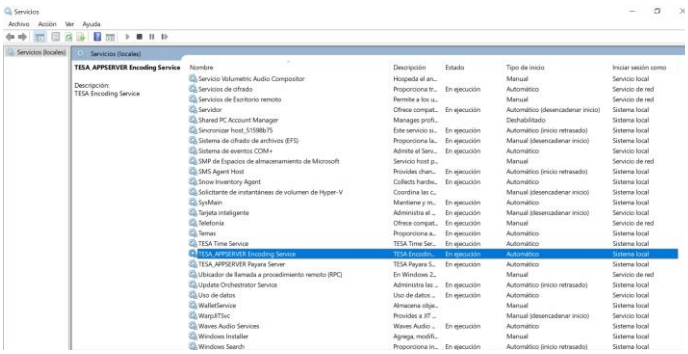
The customers should pay for this functionality and the article numbers are already in the price list 2021 (V16).

Once the option is active, we can see it in the Setup Menu / License folder of the TS1000 software.



3.3. TESA Encoding Service

Once the software license has been upgraded, there will be a new service running on the server: the TESA_APPSERVER Encoding Service.



This service must be running all the time in the server.

We have to be sure that the ports 8181 and 8182 are open. These ports, are necessary for the web manager. In some cases, it will be necessary to do port forwarding.

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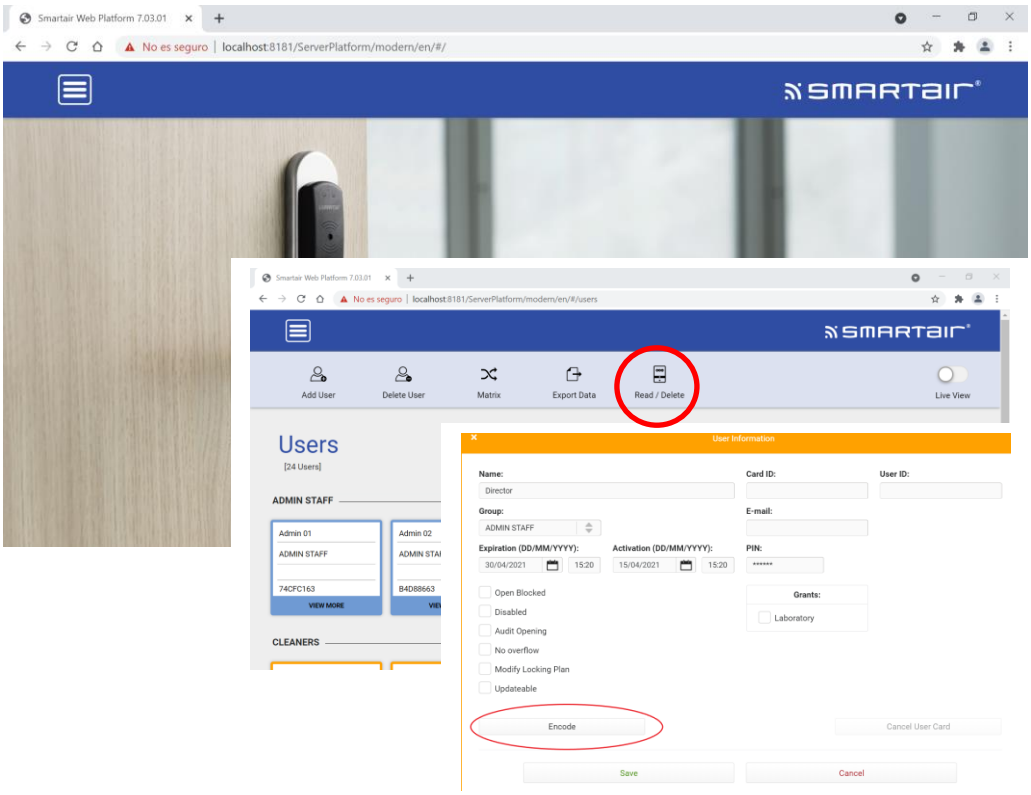
3.4. SMARTair Encoder Agent installation

Once the software license has been upgraded, we will visualize, in the web manager, the options to encode RFID credentials.

And there will be two ways:

- From the Read/Delete button on the general User's view
- From the Encode button in the User's menu.



The first time we click on any of the two options (Rear/Delete or Encode), the system will recognize that the SMARTair Encoder Agent, has not been installed on this computer yet.

So therefore, the system will download automatically the installation file and will require from us to install it on our device.

Before proceed with the installation:

- Connect the card encoder to our device.
- Be sure that the ports 8181 and 8182 are open. These ports, are necessary for the web manager. In some cases, it will be necessary to do port forwarding.

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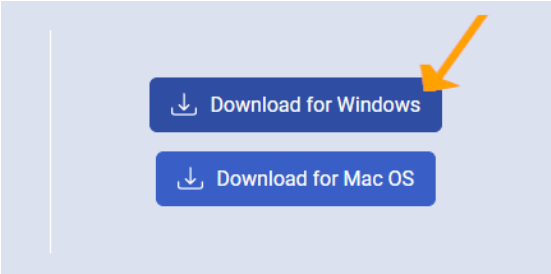
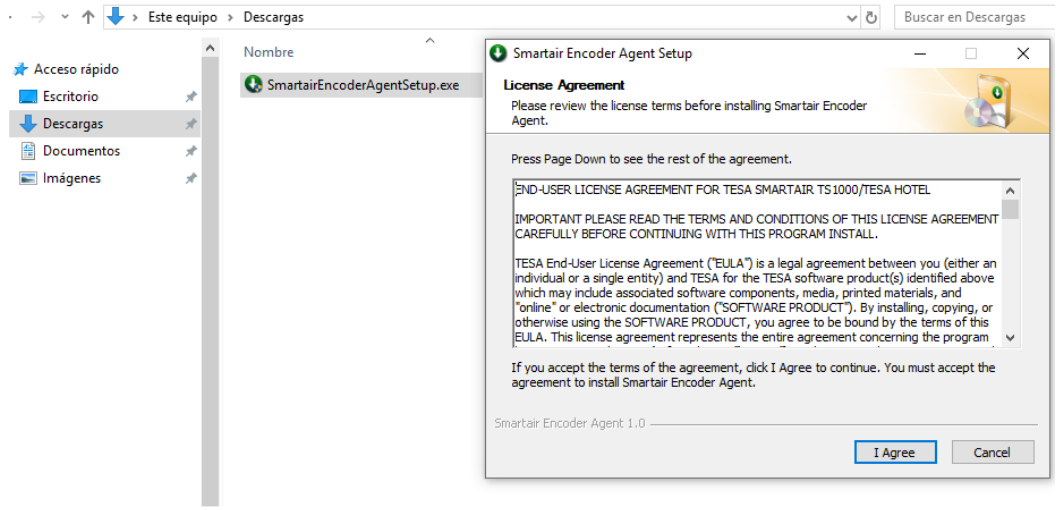
There are two installation options: for WINDOWS or for MAC OS.

For WINDOWS: Down load the installer for WINDOWS



Once downloaded, we should run it and follow the next steps:

Start the SMARTair Encoder Agent Setup



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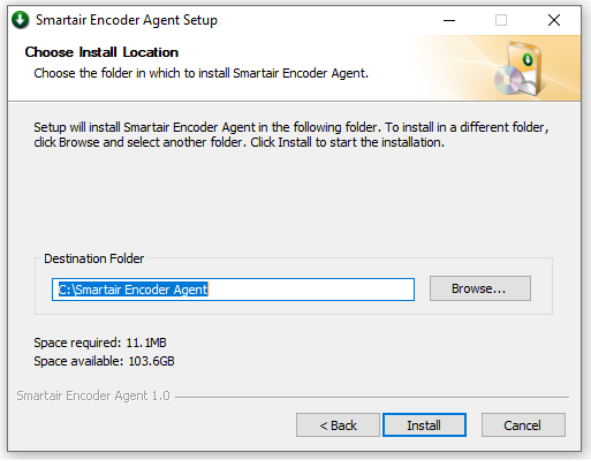
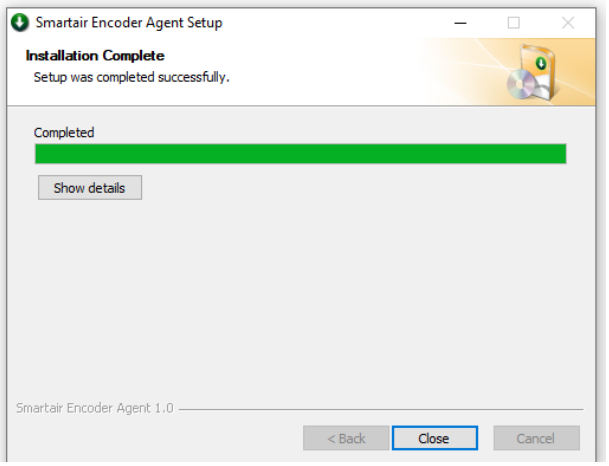
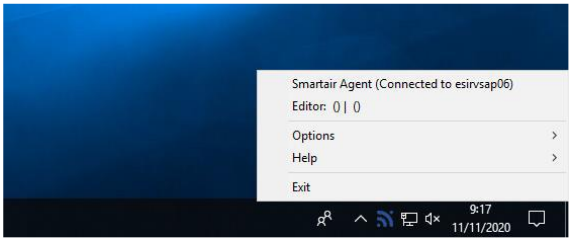
Select the installation folder and click on install. The application will launch when installation completes

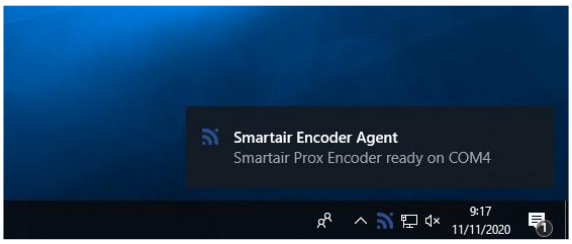




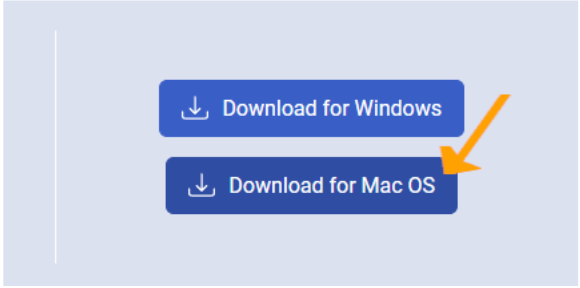
SMARTair Agent will appear in the notification area



Plug in the encoder and verify it is connected:



For MAC OS: Download the installer for MAC OS



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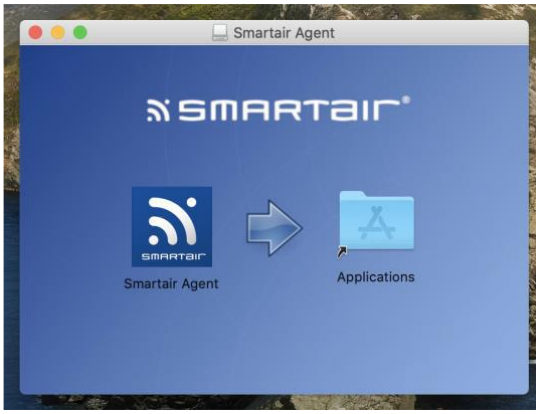
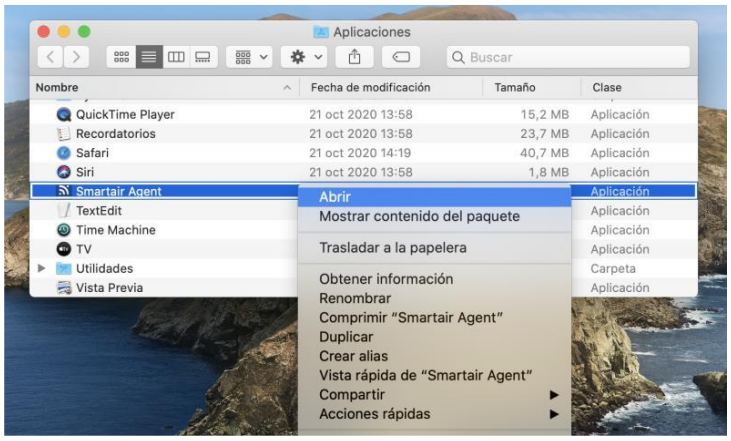
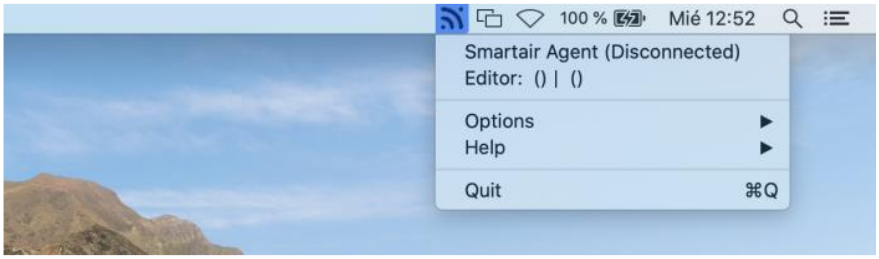
Open Smartair Encode Agent Mac OS .dmg file and drag Smartair Agent application to the Applications folder.



In Applications press Ctrl + Right-Click on Smartair Agent and click on Open.



Smartair Agent will appear in your Menu Bar.



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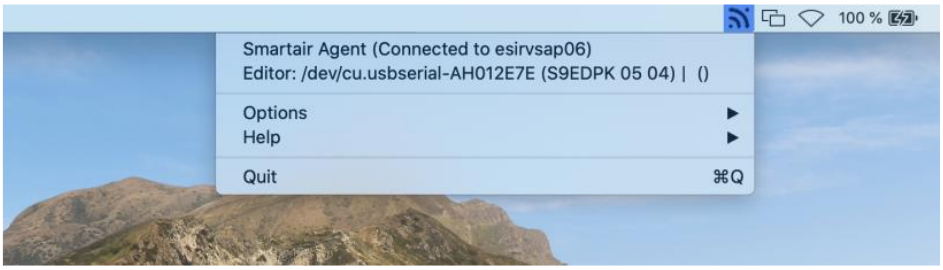
Plug-in the encoder and start using it. After the first run you can verify it is connected.



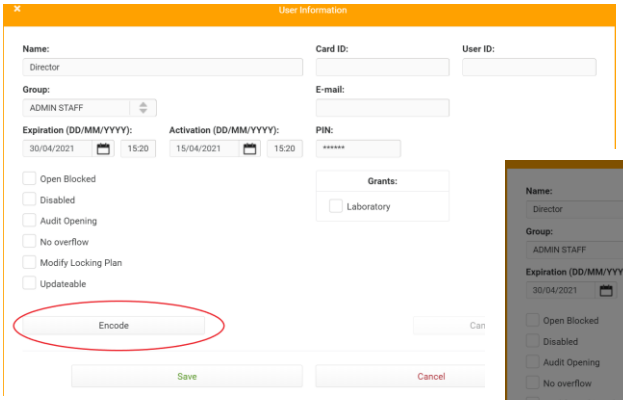
Important notice

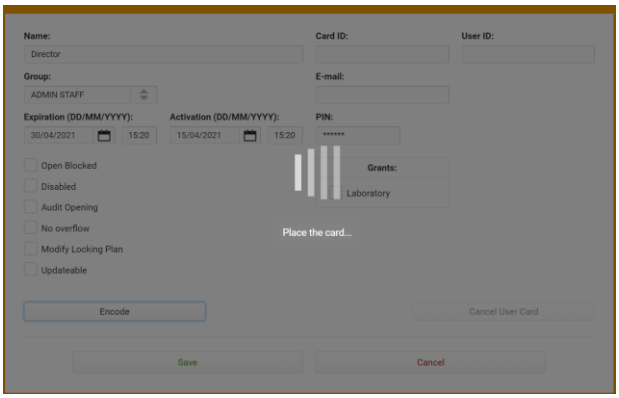
If you use Safari as your browser, you must follow these steps to be able to use Smartair Agent:
- Open Safari and go to https://localhost:20809/activate.
- If you get the warning that the connection is not private, click on "Show details" and then on "visit this website".
- Enter system administrator credentials when prompted.
- If the word "Success", appears on the screen you are ready to use Smartair Agent.

4. Encode RFID credentials

Just proceed as we normally do it from the TS1000 software.

Place the RFID credential on the encoder and just click on Encode in the users menu.





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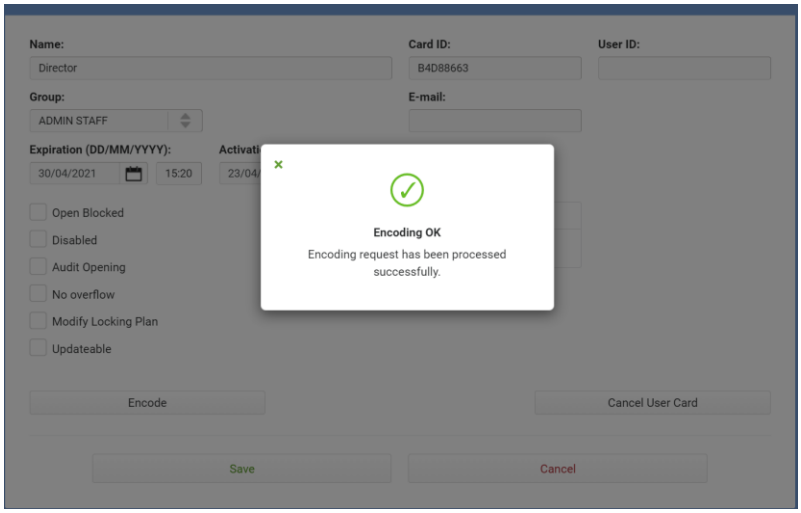
Once the process is finished, we will get the confirmation.



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