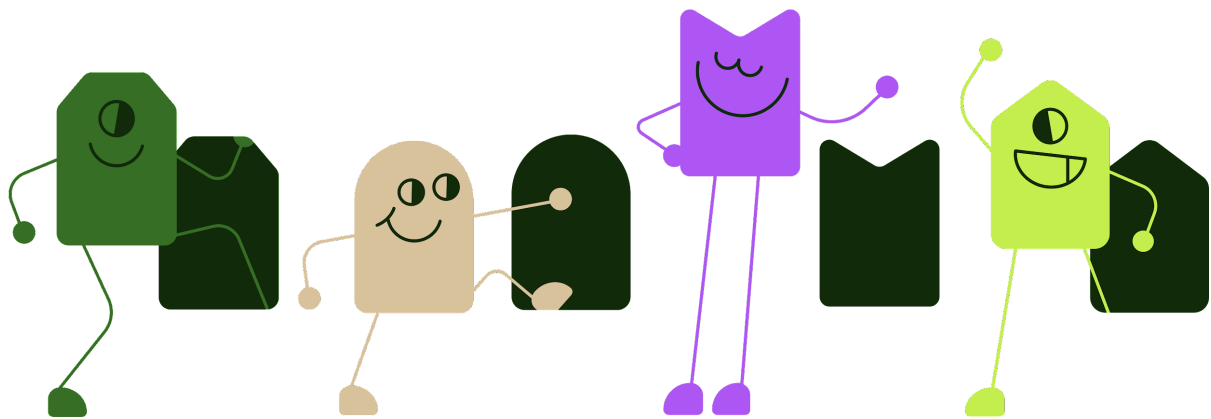


# How to onboard Salto Space with Unloc








## Version

This is version 2 of this document. This [link](#) will always point to the latest available documentation online.

## What is it?

Salto Space is an on-prem solution running on a Windows machine. Unloc has implemented a system, the SALTO Unloc Proxy, that communicates with the on-prem machine in order to create, revoke and refresh keys. The Unloc Salto Proxy runs as a service alongside the other SALTO services on the server.

	RPC Endpoint Mapper	Resolves RPC interfaces identifiers t...	Running	Automatic	Network Service
	SALTO Local IO Bridge	Enables communication bridges bet...	Running	Automatic	Local System
	SALTO ProAccess Space Service	Provides access-plan management ...	Running	Automatic	NT SERVICE\ProAc...
	<b>SALTO Unloc Proxy</b>	<b>Enables Unloc functionality for this ...</b>	<b>Running</b>	<b>Automatic</b>	<b>Local System</b>
	Secondary Logon	Enables starting processes under alt...		Manual	Local System

Screenshot from the Windows Management Console.

## Requirements

A Salto Space installation can use Unloc, given the following requirements.

1. The site server must be running Salto Pro Access SPACE version 5.6.2.2. or later.
2. The site server is permanently turned on.
3. The site server has an internet connection.  
The site owners must purchase a SHIP license from Salto. The SHIP license is an extension to the Salto Pro Access SPACE software.
4. The site server must run Windows 10 or newer
5. Encoder must be ethernet-type (not USB)
6. Locks must be BLE-enabled

## Files

- Installer.exe
- config.json
- credentials.json

## Installation

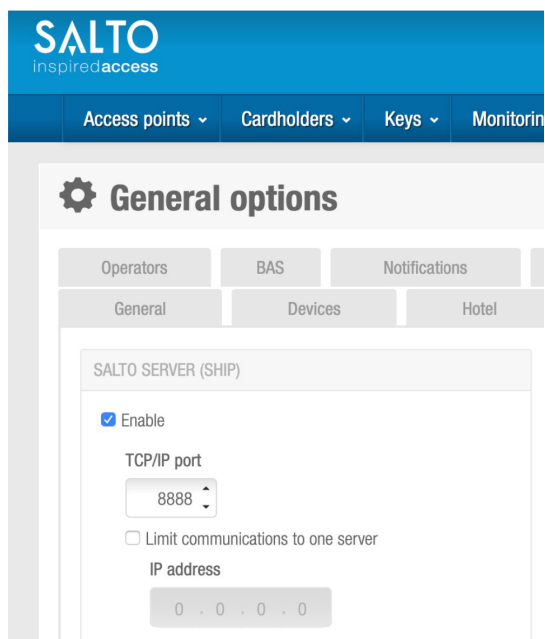
1. Run the provided installer.exe executable on the same machine running Salto SPACE. The installer will copy necessary files to c:\program files\unloc.
2. Copy the two provided files: "config.json" and "credentials.json" to the installation directory c:\program files\unloc. These are configuration files specific for this installation and allow the installation to communicate with the Unloc platform. **Note:** These files should be considered confidential, so please do not copy or share these files with anybody else.
3. Open c:\program files\unloc and launch c:\program files\unloc\setup.bat. This will install and start the SALTO Unloc Proxy as a Windows service.

## Salto Pro Access SPACE configuration

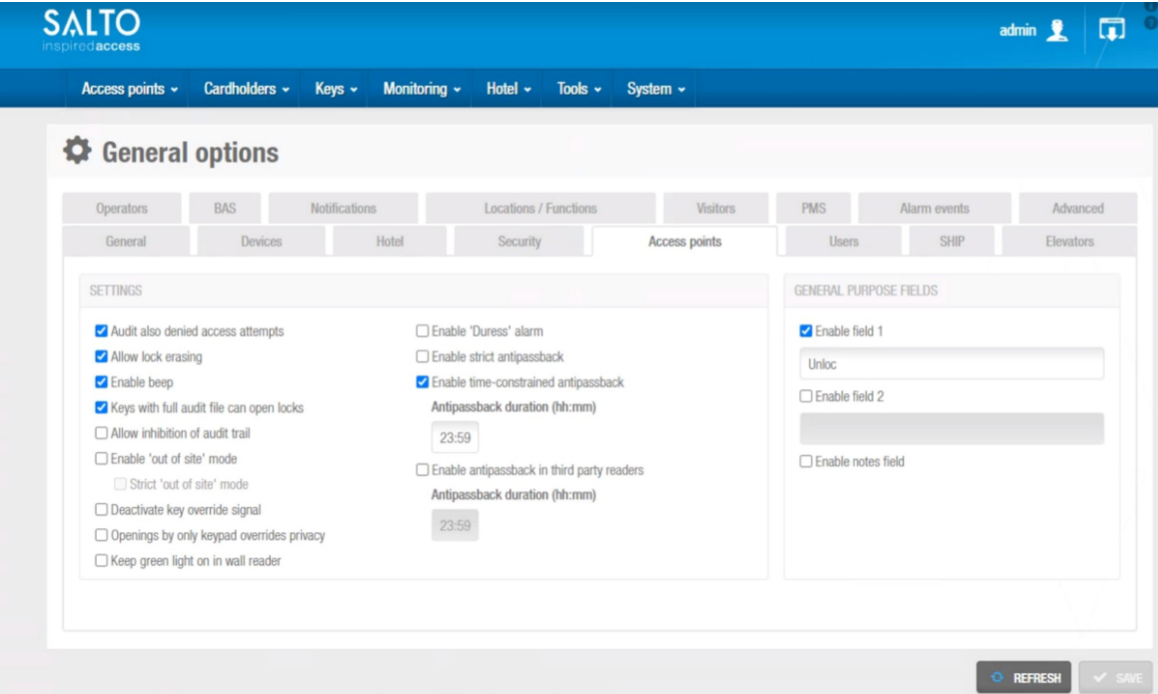
In order for Unloc to be able to interact with Salto Pro Access SPACE, the following configurations need to be made

### Connection configuration

Under System/General Options/SHIP: enable SALTO SERVER (SHIP) on port 8888.

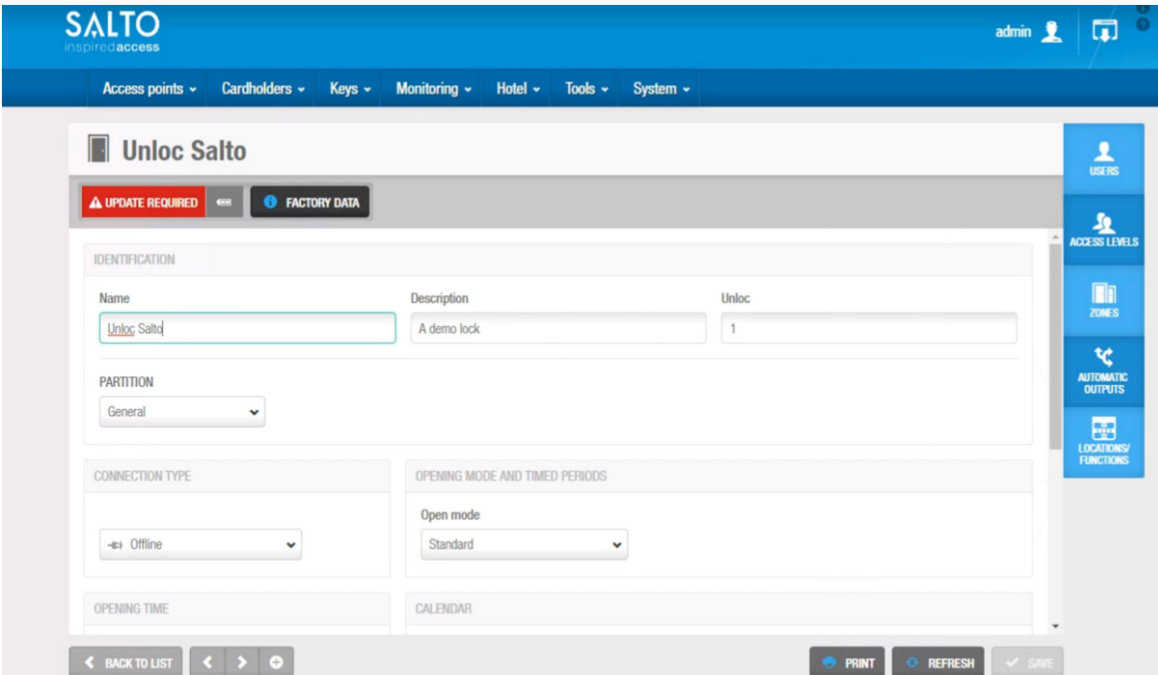


## Lock configuration



The screenshot shows the SALTO web interface. The top navigation bar includes 'Access points', 'Cardholders', 'Keys', 'Monitoring', 'Hotel', 'Tools', and 'System'. The 'General options' section is active, with sub-tabs for 'Operators', 'BAS', 'Notifications', 'Locations / Functions', 'Visitors', 'PMS', 'Alarm events', and 'Advanced'. Under 'Locations / Functions', the 'Access points' sub-tab is selected. The 'GENERAL PURPOSE FIELDS' section is visible, showing a list of fields with checkboxes. The 'Enable field 1' checkbox is checked, and the text field next to it contains 'Unloc'. Other fields like 'Enable field 2' and 'Enable notes field' are unchecked. At the bottom right, there are 'REFRESH' and 'SAVE' buttons.

Navigate to system → General Options → Access points, then under "General Purpose Fields", check "Enable field 1" and put "Unloc" into the text field.



The screenshot shows the SALTO web interface for configuring a lock. The top navigation bar is the same as the previous screenshot. The 'Unloc Salto' configuration page is displayed. It has a sidebar on the right with icons for 'USERS', 'ACCESS LEVELS', 'ZONES', 'AUTOMATIC OUTPUTS', and 'LOCATIONS/FUNCTIONS'. The main content area has a header with 'UPDATE REQUIRED' and 'FACTORY DATA' buttons. Below this, there are several sections: 'IDENTIFICATION' with fields for 'Name' (Unloc Salto), 'Description' (A demo lock), and 'Unloc' (1); 'PARTITION' with a dropdown menu set to 'General'; 'CONNECTION TYPE' with a dropdown menu set to 'Offline'; 'OPENING MODE AND TIMED PERIODS' with a dropdown menu set to 'Standard'; 'OPENING TIME'; and 'CALENDAR'. At the bottom, there are 'BACK TO LIST', 'PRINT', 'REFRESH', and 'SAVE' buttons.

Each lock that should be Unloc compatible needs to set the field "Unloc" to the lock type id corresponding to the lock that is installed. The list of available lock

type id's is listed below (this field can now be found under Access points → the lock you want to set up. It's next to the description field).

Lock Type IDs
generic
neo
neoxx
mini
aelement
one
original
original-keypad
locker
wallreader
wallreader-keypad

## Encoder configuration

In order to generate and encrypt the data needed to open a lock with the Unloc app, you need to set up a network encoder, defined as a dongle.

1. Go to System → Salto Network



2. Then add a new network device of type "Encoder". Give it a name, an IP address and then save. Hold the CLR-button on the encoder until the

light blinks, then click on "assign IP address".



The image shows two parts of the interface. On the left, a 'Add network device' dialog box with a 'Type' dropdown set to 'Encoder' and 'CLOSE' and 'OK' buttons. On the right, the 'Encoder' configuration page with fields for 'IDENTIFICATION', 'Name' (set to 'Encoder'), and 'IP address' (set to '192.168.0.15'). A blue 'ADDRESS' button is also visible.

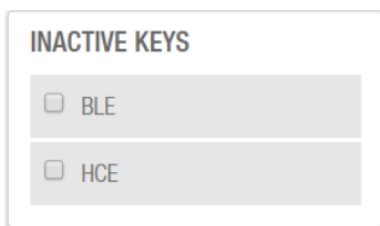
3. Go to System → General Options
4. Under the tab Devices, choose the encoder you set up in the previous step as the "Dongle Encoder", then save.



The image shows the 'General options' page with tabs for 'BAS', 'Notifications', 'General', and 'Devices'. The 'Devices' tab is active, showing a 'DONGLE ENCODER' dropdown menu set to 'Encoder'.

Next, we need to activate BLE and NFC functions in the locks, so that the Unloc app is able to communicate with the lock.

1. Go to System → SAM & Issuing options
2. Under "inactive keys" you will find BLE and HCE. Mark both of these so that they move up into "active keys", then save. Update all doors with PPD.



The image shows the 'INACTIVE KEYS' section with two checkboxes: 'BLE' and 'HCE', both of which are currently unchecked.

## Final step

The last step is to restart Salto ProAccess Space Service (select Services from Windows start menu).

## Naming locks on hosted server

If you have a hosted solution with several customers on the same server you need to give the locks a prefix that makes it possible for us to identify all the locks connected to a specific customer. Prefixes can be numbers or letters as long as they are unique per customer (e.g 220 or CBT).

All locks connected to that customer have to start with the same prefix for us to understand who it is connected to, Unloc does not see the information written in "Description" on the Salto site.

## Uninstall

From a terminal

1. Enter the Unloc installation directory: ``cd c:\program files\unloc``
2. Stop the service: ``.\nssm stop "SALTO Unloc Proxy"``
3. Remove the service: ``.\nssm remove "SALTO Unloc Proxy"``