



8Lab Solutions - Project "Soldino"

# User manual

<b>Version</b>	1.0.0
<b>Approval</b>	Samuele Giuliano Piazzetta
<b>Drafting</b>	Francesco Donè Sara Feltrin
<b>Check</b>	Paolo Pozzan
<b>State</b>	Approved
<b>Use</b>	External
<b>Adressed to</b>	Red Babel 8Lab Solutions Prof. Tullio Vardanega Prof. Riccardo Cardin

## Description

User manual made by *8Labs Solutions* for the making of the project *Soldino*.

8labsolutions@gmail.com

## Changelog

Version	Date	Name	Role	Description
0.0.1	2019-03-20	Federico Biciato	<b>RUOLO</b>	Created document's structure.

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## 1 Introduction

This document is the user manual of *Soldino*, a project by *8Lab Solutions* based on the Ethereum infrastructure. *Soldino* is a platform, managed by the Government, that allows users to buy goods and services and allows business to manage the VATs related to those products. More precisely:

- citizens can:
  - buy goods and services;
- business can:
  - sell goods and services;
  - buy goods and services;
  - manage VAT;
- Government can:
  - mint Cubits;
  - distribute Cubits;
  - activate disabled users;
  - deactivate active users;
  - reimburse business of their VAT credit;

### 1.1 Requirements

To be able to use *Soldino* you must have the desktop version one of the following browsers:

- Google Chrome version 71 or newer;
- Mozilla Firefox version 64 or newer.

You also have to install the MetaMask plug-in in your browser. More information will follow

## 2 MetaMask

### 2.1 Installation

After entering *Soldino* check if you have MetaMask, a bridge between your browser and the Ethereum network, installed. If you don't, watch the guide and click the link under the video to then follow the instructions to download it. After the installation process is complete you will see MetaMask's icon on the top right of your browser. A new window will then open where you will have to configure your account.

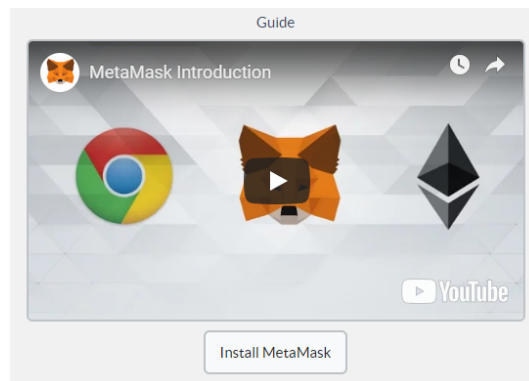


Figure 2.1.1: MetaMask tutorial

### 2.2 Configuration

To be able to use the site you also need a MetaMask account. Click on MetaMask's icon on the top right of your browser, and set up your personal Ethereum wallet. You can either create a new one or import an existing one from the 12 words seed phrase.

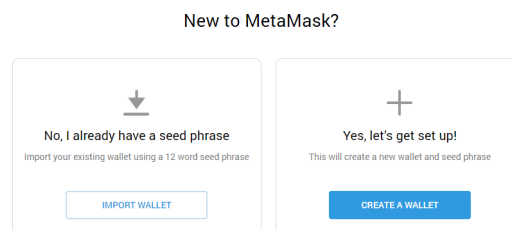


Figure 2.2.1: MetaMask setup

After setting up your account you will be able to join and use *Soldino*.

Note that MetaMask has to be installed in your browser as long a you want to use the platform, removing it from your browser will render you unable to use *Soldino*.



## 2.3 Transactions

Every time you make a transaction MetaMask will show you its price and you will be able to accept it or decline it.

Note that all prices shown are in Cubits, *Soldino's* own special token. Also remember that 1 Cubit = 1 Euro

## 3 Citizens

### 3.1 Registration

If you want to create a personal account for *Soldino* visit the homepage and make sure that the slider is set on "Citizen".



Figure 3.1.1: Select "Citizen" from the slider

Then, insert your data in the form. After you have completed all the fields with your informations press the "Sign up" button. If an entry is not valid (i.e. the email address does not contain a valid domain) the system will let you know and you have to correct that field to continue. If all the informations are correct a pop up window will open asking you to allow *Soldino* to access your information.

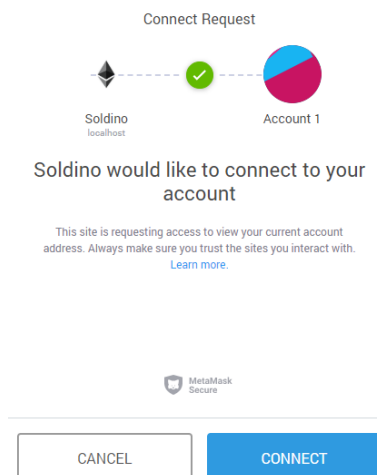


Figure 3.1.2: Connecting MetaMask to *Soldino*

Press "Connect" and you will be redirected to a page congratulating you for your registration on the platform.

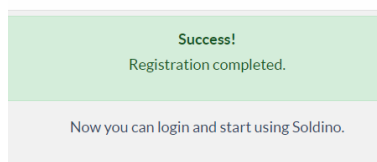


Figure 3.1.3: Registration completed message

### **3.1.1 Citizen already registered**

If your address is already registered in our platform you will see an error page telling you that you cannot create a new account.

## **3.2 Login**

If you already have a personal account press the "login" button on the top right of the homepage. Then you will be able to buy goods and services or check your orders. To be able to login you have to be logged in your MetaMask account.

## **3.3 Searching**

## **3.4 Buying**

After you login you will be able to explore the products that *Soldino* has to offer you. If you something you want you just have to select the quantity and then press the "Add to cart" button to put it in your cart.

### **3.4.1 Cart**

After you are done searching for what you need just press the cart icon to go to your cart. Here you will find every item you have selected in the respective quantity and above them you will see the total for your order. If you need to modify the quantity press the "+" or "-" buttons. When you want to proceed with the order press the "Checkout" button, you will be redirected to the checkout page

### **3.4.2 Checkout**

## 4 Businesses

### 4.1 Registration

If you want to create a business account for *Soldino* visit the homepage and make sure that the slider is set on "Citizen".



Figure 4.1.1: Select "Business" from the slider

Then, insert your business's data in the form. After you have completed all the fields with your informations press the "Sign up" button. If an entry is not valid (i.e. the email address does not contain a valid domain) the system will let you know and you have to correct that field to continue. If all the informations are correct a pop up window will open asking you to allow *Soldino* to access your information.

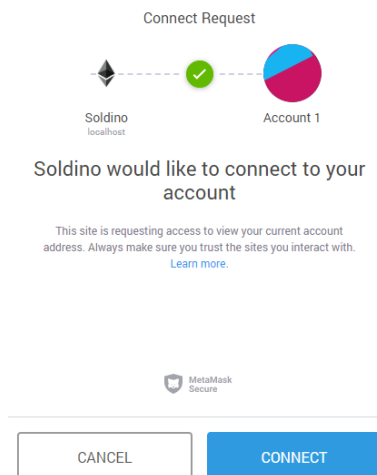


Figure 4.1.2: Connecting MetaMask to *Soldino*

Press "Connect" and you will be redirected to a page congratulating you for your registration on the platform. for your registration on the platform.

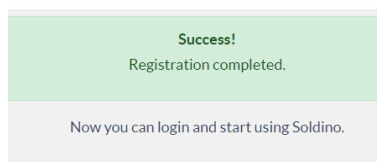


Figure 4.1.3: Registration completed message

#### **4.1.1 Business is already registered**

If your address is already registered in the platform you will see an error page telling you that you cannot create a new account.

### **4.2 Login**

If you already have a business account press the "login" button on the top right of the homepage. Then you will be able to buy goods and services, check your orders and manage your VAT. To be able to login you have to be logged in your MetaMask account.

### **4.3 Managing products**

#### **4.3.1 Selling a new product**

If you want to sell a new product you have to

#### **4.3.2 Modifying a product**

If you want to modify the information of a product you are selling you have to

#### **4.3.3 Removing a product**

If you want to remove a product from the platform you have to

### **4.4 Searching**

### **4.5 Buying**

After you login you will be able to explore the products that *Soldino* has to offer you. If you something you want you just have to select the quantity and then press the "Add to cart" button to put it in your cart.

#### **4.5.1 Cart**

After you are done searching for what you need just press the cart icon to go to your cart. Here you will find every item you have selected in the respective quantity and above them you will see the total for your order. If you need to modify the quantity press the "+" or "-" buttons. When you want to proceed with the order press the "Checkout" button, you will be redirected to the checkout page

#### **4.5.2 Checkout**

### **4.6 VAT management**

If you are a business *Soldino* will manage the VATs for the products you buy and sell on the platform automatically.

**4.6.1 Paying VAT**

**4.6.2 Deferring VAT**

**4.6.3 Checking past trimesters' VAT**

## 5 Government

### 5.1 Registration

The government cannot register a new account like other users and only one account is allowed.

### 5.2 Login

To log in as Government press the "login" button on the top right of the homepage. Then you will be able to mint and distribute Cubits, manage existing accounts and reimburse business of their VAT credit. To be able to login you have to be logged in your MetaMask account.

### 5.3 Cubit

#### 5.3.1 Minting

The Government can mint Cubits, a special token for *Soldino* that has the value of 1 Euro. This can be done by visiting

#### 5.3.2 Distributing

Government can distribute Cubits previously minted amongst the users of the platform. This can be done by visiting

### 5.4 Managing users

The Government can activate disabled accounts or deactivate active accounts. This can be done by visiting the page containing all users.

#### 5.4.1 Activating users

After you have found the account you want to enable press the button "Enable". After being enabled an account will again be able make purchases on *Soldino*

#### 5.4.2 Deactivating users

After you have found the account you want to disable press the button "Disable". After pressing it a window will open where you can write a message explaining why the account was disabled that will be shown when that user will try an log in. Disabling an account means that it will not be able to make purchases on *Soldino* until it is enabled.

### 5.5 Reimbursing business

The government can reimburse business of their VAT credit. This can be done by visiting

## 6 Issues

We, members of *8Lab solutions*, did our best to build *Soldino* bug free and did extensive tests to squish all of them, but we cannot be sure that they are all gone.

If you encounter a bug we would appreciate if you to report it to us at our email address (8labsolution@gmail.com) or in the dedicated page at the project's repository

When reporting an issue please include:

- what type of user encountered it;
- a detailed sequence of steps that must be done to reproduce the error;
- if the error included Metamask and what type of error it shows;
- your browser's console log output.



## A Glossary