



# Commissioning Guide

Hedsam X

TA/A Terminal

**V1.1**

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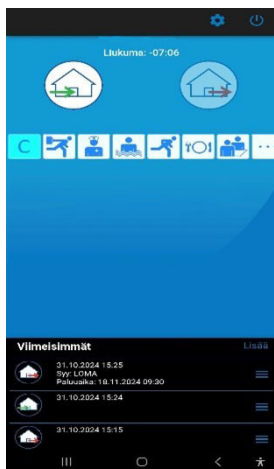
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# 1 Introduction

The TA/A terminal uses the following PIN code: 1234.



## 2 Mounting Device

First, select which way the device is installed and on which side the reader is mounted. All four sides have a mounting point for the reader. By default, only the mounting points at the bottom and on the right are activated.

If you want to mount the reader on the left or top, see [Mounting Reader on the Left or Top](#).

## 3 Operating Voltage

You can feed operating voltage to the terminal either via PoE or with a separate power source.



**Warning!** Both feeds must not be connected at the same time. Risk of breakage!

## 4 Network Connection

When the terminal is connected to a network via Ethernet, by default it receives an IP address automatically from a DHCP server. You can change the IP address in the device settings or change the network connection to a Wi-Fi connection. If the device is online, the TA application starts automatically. If this happens, the entire device goes directly into Kiosk mode.



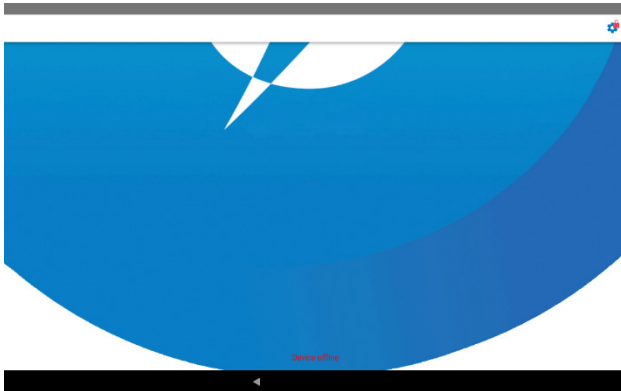
**Note!** You can exit Kiosk mode only with the admin password.

### 4.1 Error Cases

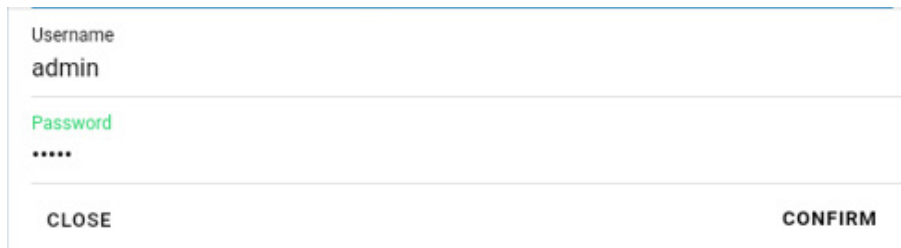
If the device starts in Kiosk mode and the network connection is not working:

1. The device must be disconnected from the network. Disconnect the Ethernet cable or move the Wi-Fi device out of network range (airplane mode).

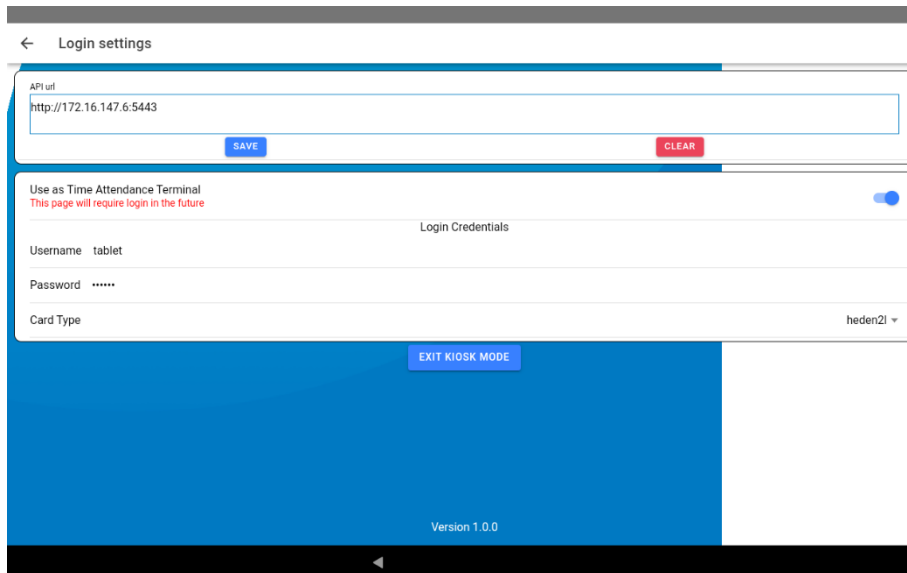
2. Connect the device with only the power supply.
3. Restart the device using the power button.
4. The TA application starts and displays **Device offline**.



5. Select the cogwheel icon in the top corner.
6. Enter the admin username and password.



The application settings open.



7. Select **EXIT KIOSK MODE**.
8. You can now access the operating system to change the network settings. Set the new settings.
9. Restart the TA application, see chapter [Launching Application](#).

## 5 First Startup

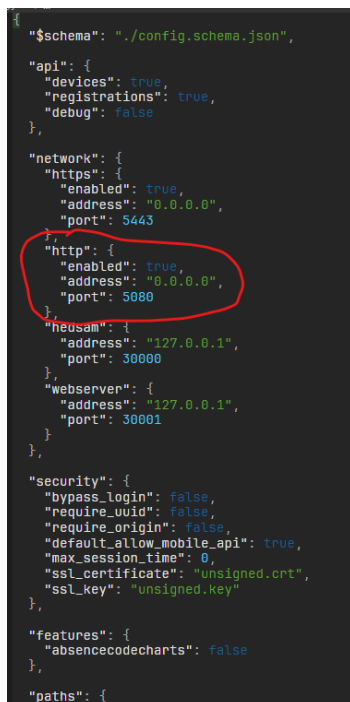
When you switch on the device for the first time, it automatically attempts to find an Internet connection. If no connection is found, you receive an error message. In that case, modify the network settings.

1. Open **Settings > Network & Internet >** on the device.
2. Wired network settings are under **Ethernet** and Wireless network settings are under **Wi-Fi**.
3. In Ethernet settings, you can change the static address by first deselect DHCP, and then enter the IP address, mask and gateway.
4. In the Wi-Fi settings, find the correct access point and enter a password for it.

## 6 Connection to the API Server

To connect to the API server, the API service included in the Hedsam software must be installed and configured, and the license for the API service must be enabled. The TA/A terminal connects to the API server by accessing the port provided by the server. The connection uses the HTTP protocol, which must be explicitly allowed.

1. Open the *config.json* file located in the API server installation folder.



```
{
  "$schema": "../config.schema.json",
  "api": {
    "devices": true,
    "registrations": true,
    "debug": false
  },
  "network": {
    "https": {
      "enabled": true,
      "address": "0.0.0.0",
      "port": 5443
    },
    "http": {
      "enabled": true,
      "address": "0.0.0.0",
      "port": 5080
    },
    "hedsam": {
      "address": "127.0.0.1",
      "port": 30000
    },
    "webserver": {
      "address": "127.0.0.1",
      "port": 30001
    }
  },
  "security": {
    "bypass_login": false,
    "require_uuid": false,
    "require_origin": false,
    "default_allow_mobile_api": true,
    "max_session_time": 0,
    "ssl_certificate": "unsigned.crt",
    "ssl_key": "unsigned.key"
  },
  "features": {
    "absencecodecharts": false
  },
  "paths": {
    "api": "api"
  }
}
```

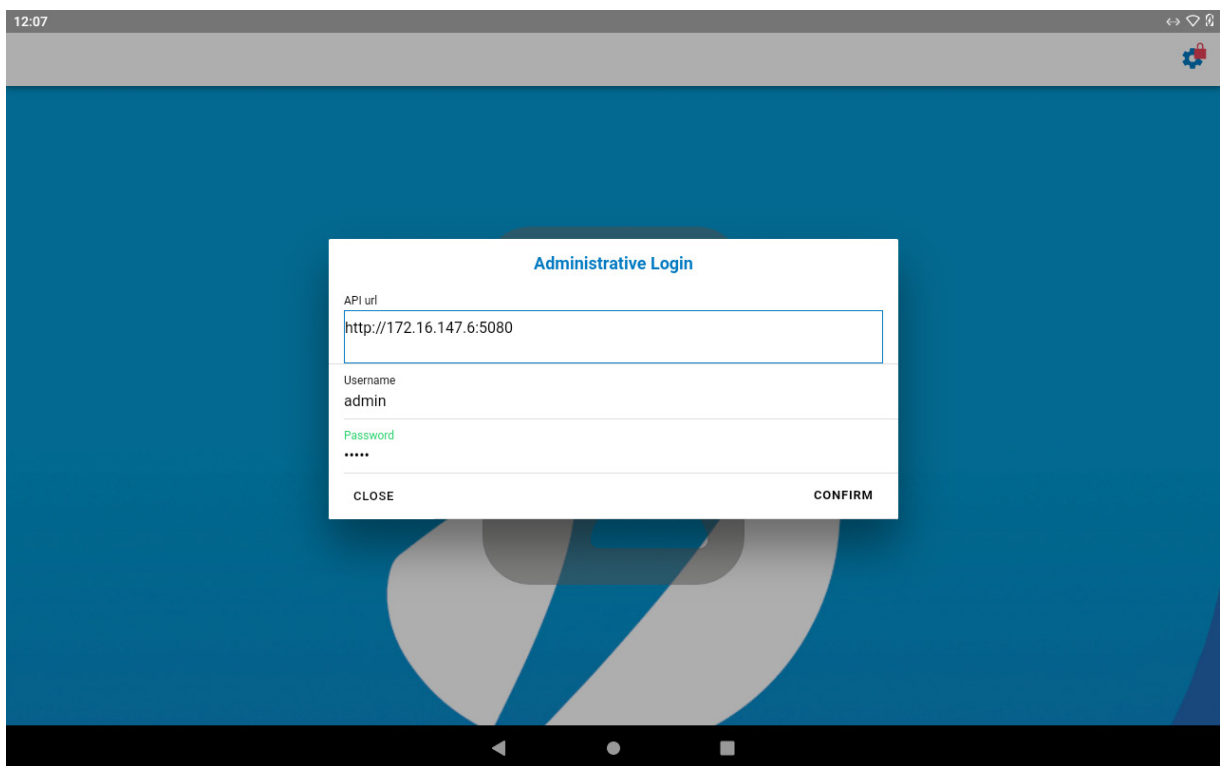
2. Modify the following setting: **"http": "enabled": true**
3. If necessary, adjust the port number. Other server settings are described in a separate guide.
4. After making the changes, restart the API service (**Services / Palvelut**).
5. Make sure that the API service is running.
6. The connection to the API terminal requires a username and password, which must be created in the Hedsam database through the web interface:
  - a. Create a user named **admin** and set a password. This user can modify the TA/A terminal settings.
  - b. If necessary, first create a user group, for example, **TAA-admin**. Grant admin rights to this group.
  - c. Assign the user to the **TAA-admin** group.

- d. Create a user named **tablet** and set a password. This user will be used for registering in and out.
- e. If necessary, first create a user group, for example, **TAA**. Grant integration API rights to this group.
- f. Assign the user to the **TAA** group.
- g. Save the changes.

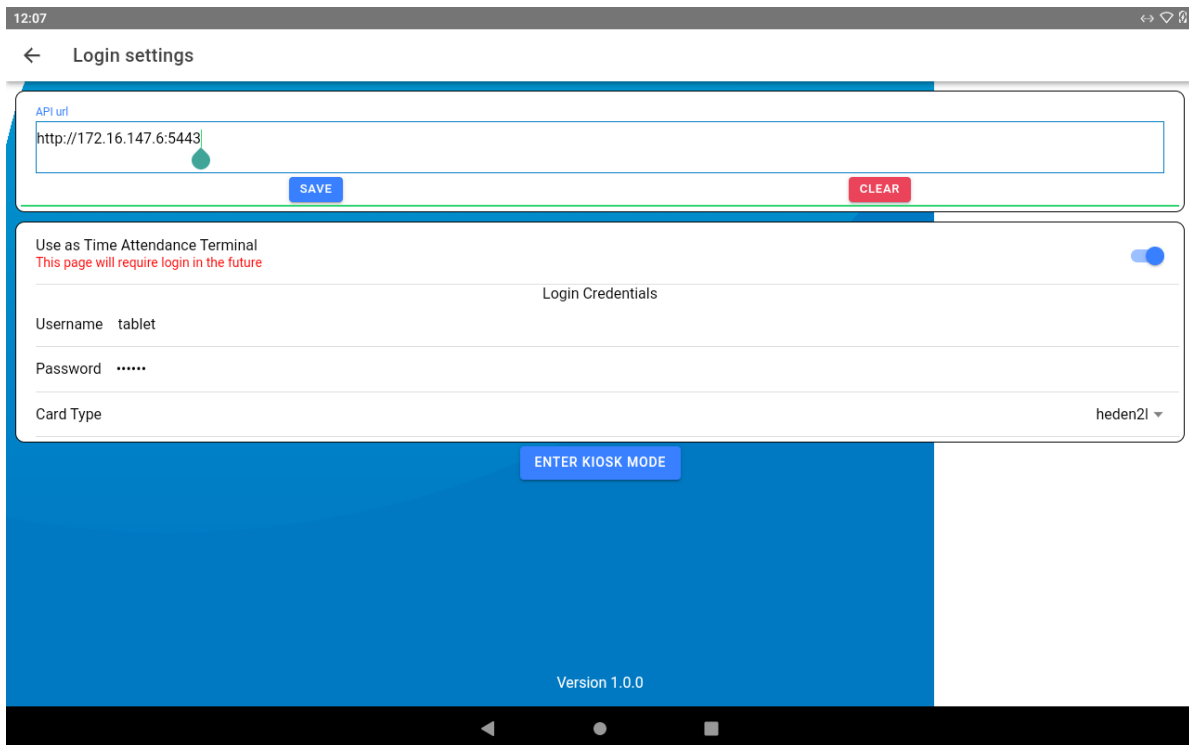
## 7 Launching Application

Once the internet connection is working, launch the Hedsam X TA 2 application.

1. When you launch the application, you must enter the IP address of the Hedsam X server.
2. Enter the address in the format **https://hedsamta.hedengren.fi:5443** or **https://10.20.30.40:5443**.
3. Enter the **TAA-admin** username and password that you configured through the web interface (default: **admin/admin**).



#### 4. The application prompts for login credentials.



5. Enter the address in the format **https://hedsamta.hedengren.fi:5080** or **https://10.20.30.40:5080**.
6. Select **Save**.
7. Enter the username created for the API service, that is, the username **tablet** and the corresponding password. Use the same credentials that were created for connecting to the server (default: **tablet/tablet**).
8. Set the card type (default: **heden2l**).
9. The application is now ready for use.
10. Select **ENTER KIOSK MODE**, after which the device switches to Kiosk mode.

## 8 Kiosk Mode

In this mode, only the Hedsam X TA2 application runs on the device. All other operations are blocked. To exit this mode, go to Settings (cogwheel), enter the admin password and select **Exit Kiosk Mode**.

Launching the application automatically restarts the Kiosk mode.

## 9 Mounting Reader on the Left or Top

To mount the reader on the left or top, you must change the device settings

1. Exit the Kiosk mode and go to Settings.
2. In **Settings**, select **Connected devices** and **PoE power management**.
3. All four micro USB ports can be used for connecting a reader. Activate the necessary ones and deactivate the unnecessary ones. All four ports cannot be activated at the same time.
4. When there is a green light on the reader, it is operational.
5. Exit **Settings**.