NotauDisplay

User manual

Introduction

We thank you for choosing NotauScore software for managing your competitions.
This manual is intended to explain how to setup remote screens with NotauDisplay.
Keep this manual handy for future reference.

Version	Date	Redactor	Reason for updating
1.0	04/04/2020	Roland Poidevin	Initial and provisional version
1.1	10/26/2020	Roland Poidevin	Setup network access

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NotauScore is a free software designed to handle all kinds of model aircraft competitions (F2B, F3A, F3P, F3M, F3S, etc. ...)
It integrates the management of Notaumatic for entering notes, but it can however be used for manual entry.
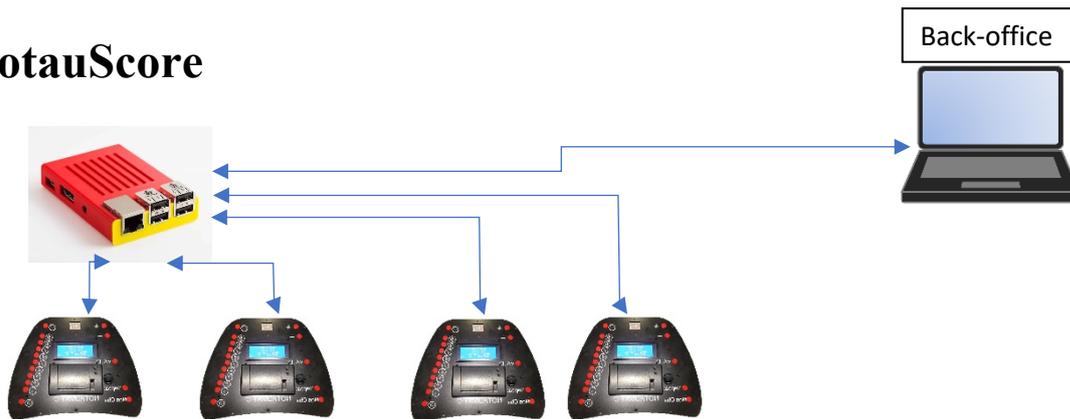NotauScore is intended to work on an Apache server of type XAMPP, LAMP, Raspbian, ...
Everything is planned to make the installation and updates easy for users : disk images are available for download (see downloads page in Notaumatic.f3a.fr).
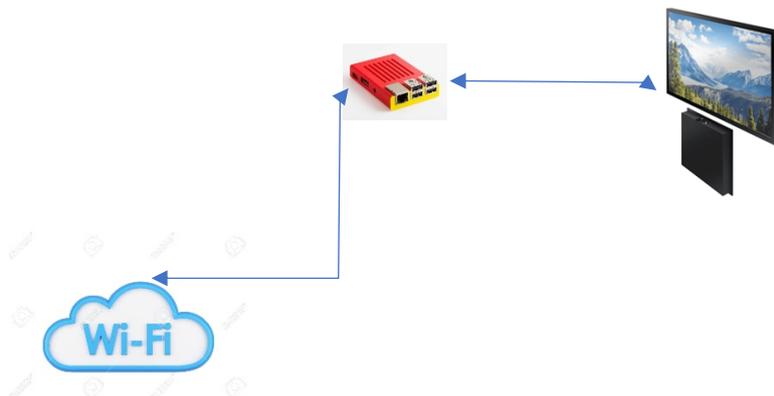
Hardware/Network architecture

The hardware architecture is as follows:

NotauScore

Users can access the software via any device able to browse a web site: smartphone, laptop, etc...

NotauDisplay

NotauDisplay is connected to the WIFI network : just a Raspberry and a screen.

Installation

The easiest way to install the application is to download the SD card image. Unzip it, then use Win32DiskImager (see link at "Téléchargements" page) to copy the image to a SD card. No need for a speedy Raspberry. An old PI 3 will do the job. You just need a Raspberry with WIFI.

Connect an HDMI screen. This screen can be a desktop display or a TV.

Switch on the Raspberry and everything is ready !!!

Connection

The Raspberry will connect to the WIFI network with SSID : "ffam-notaumatic" and PW "citamuaton".
The default hostname is "NotauDisplay1". This value can be changed. See "Setup" chapter.

The remote display can be configured with a new menu in NotauScore. Click on "Kiosk".

In the "DHCP leases" frame, you can see all the devices connected to the WIFI network. The first line shows "notauDisplay999". Select and copy this hostname.
Then add a new line in "Kiosk" frame, copy the hostname and select the screen you want to display on notauDisplay999. Don't forget to confirm with "Enter". You can enter flight line number or leave it to 0 when there is only one flight line.

That's all…

In "Background image" frame, you can choose the background image which will be displayed on all the remote screens. Be careful, you will have to make different tests to build a suitable image: size, proportions, transparency, etc ... In the "Test" frame, you can have a look at the actual display.

Setup

As you may have several remote displays, you need to change the "hostname" for each device. In order to proceed to this setup, you'll need a keyboard connected to the remote Raspberry.
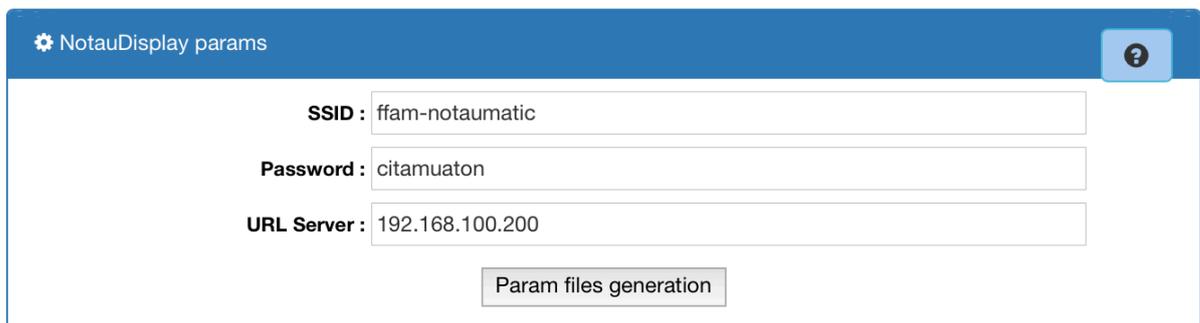
The steps are below :

- Type `<CTRL><ALT><F1>`. This will close the browser and give you access to the command line. Don't be scared by this screen…
- Type `./h newHostname`. For example `./h notauDisplay2`
  Don't forget to hit <Enter>
- Type `sudo shutdown -h now` or simply switch off and on the Raspberry and disconnect the keyboard.

Accès réseau

The initial setting is as follows:

- SSID : ffam-notaumatic
- PASSWORD : citamuaton
- URL server : 192.168.100.200

There is nothing to change in this setting if you are using a standard network configuration. If you are using a larger network with WIFI routers or repeaters, you may need to modify it. To do this, there is a very simple procedure from NotauScore, in the "Kiosk" window:
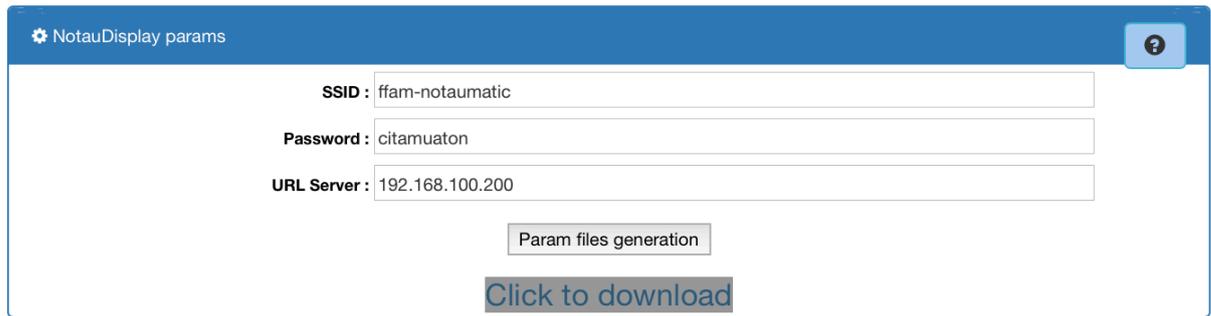
Simply enter the correct values for your network: SSID, WIFI Password and the server URL then click on the "Generation ..." button. You will then see another button appear:

Then click on this button to download the generated file.

All you have to do is copy this file ("paramNotauDisplay.zip") from your download folder to the "/ boot" directory of the NotauDisplay SD card.

Reinsert the SD card into the NotauDisplay, it will restart automatically with the new settings.

Without NotauDisplay

You can still use this feature with any connected device : a laptop, an Ipad, etc… Just connect to the WIFI network, open your favorite browser and enter this URL :

```
http://192.168.100.200/kiosk.php
```