Settop M1 configuration

This guide describes the configuration of a Settop M1 with registering it to ISTConnect.

Requirements

- S series total station with finelock (no battery)
- Settop M1
- Data Sim Card with APN, login & password

Workflow

1. Add the cable and add the two antennas to the Settop M1

Make sure that the total station COM port is used to connect to the M1

2. Insert the SIMCard to the Settop M1

3. Go to your laptop or smartphone and locate the Settop WiFi access point and connect to it (default password: settopm1)

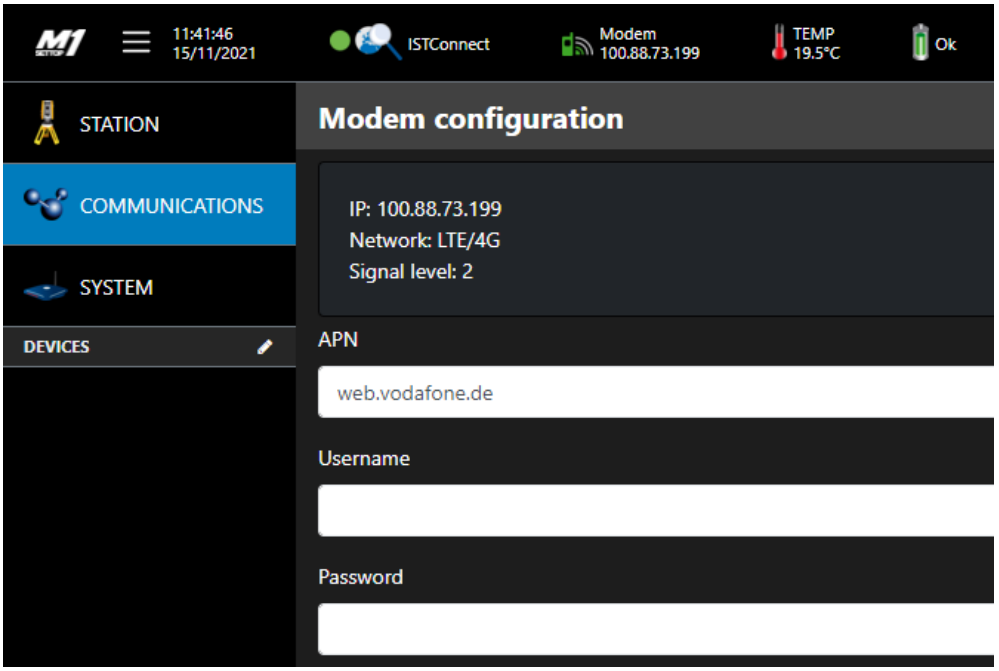
4. Launch your browser and connect to the Settop and type in this IP address 192.168.2.2 - if the computer is not working - try the phone

5. Login to the web interface with username **admin** and password **m1**

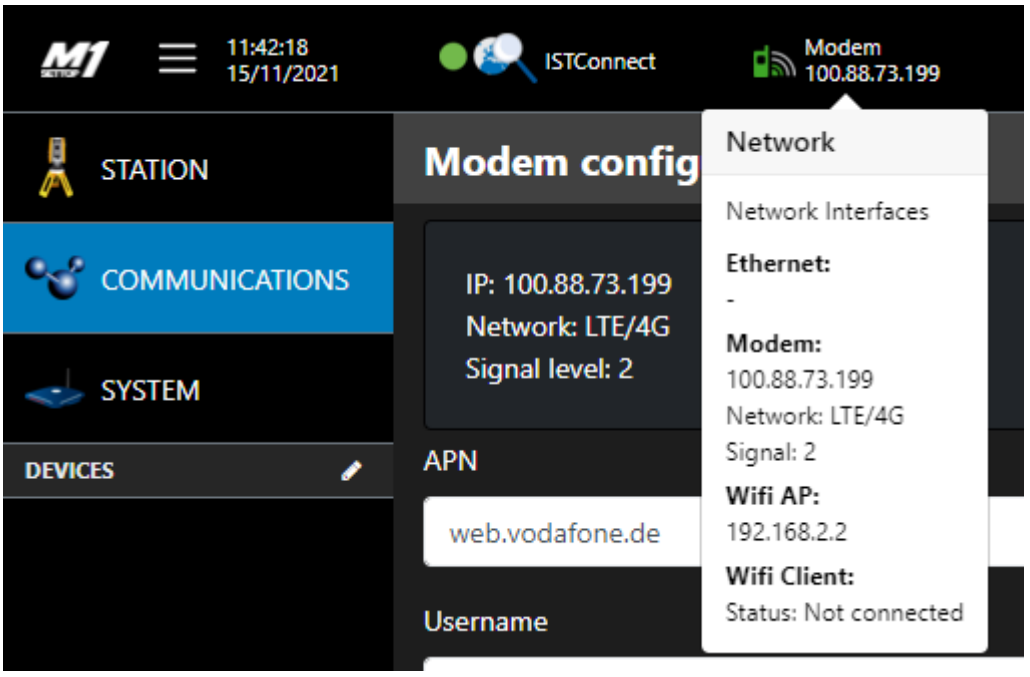
6. Change the default password to a more secure password of your choice, if you'd like.

7. Select Communications > Modem

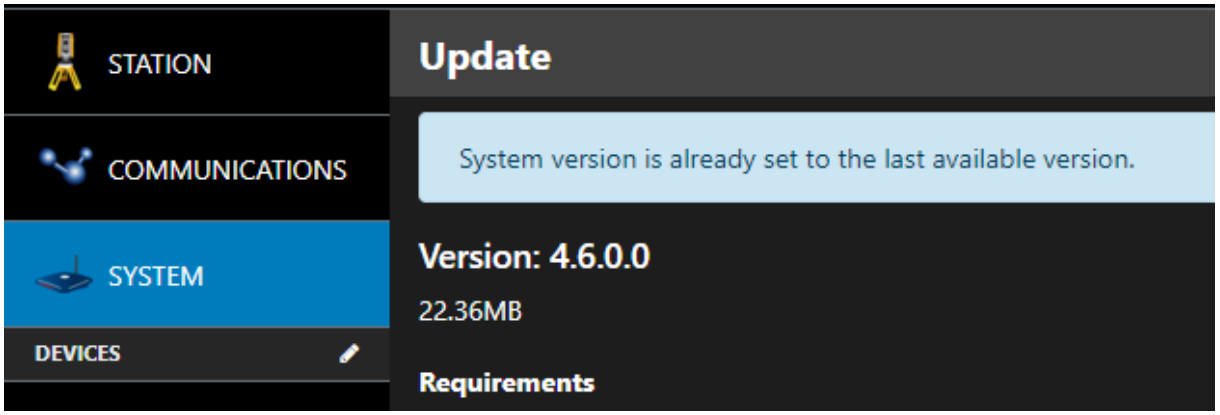
8. Go to **Network** and enter in the **APN** (the APN is a unique number or code provided for you by your SIM card provider. See troubleshooting page of this document for common APN's). If you have a **Username** and **Password** with your SIM card, you can use it, but it's not necessary.



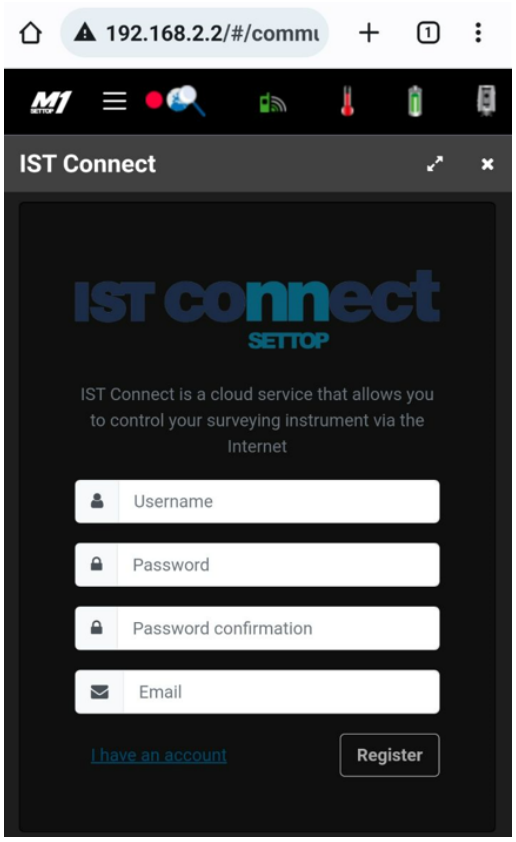
After a short while your SIMCard should have an IP address and show this in the web interface. The blue bars will change to a green cell phone icon.

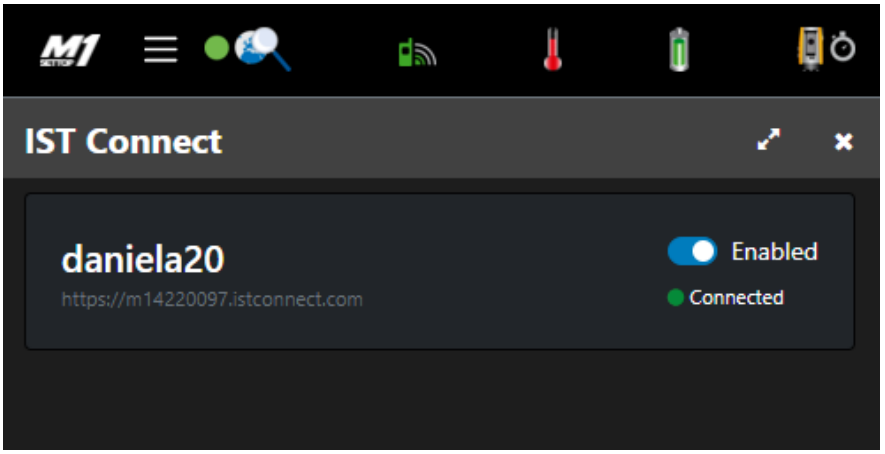


9. Check for firmware updates by clicking on **System** and then **Update** and make sure that your Settop M1 is using the latest version. You will need to reboot your M1. System > Reboot.

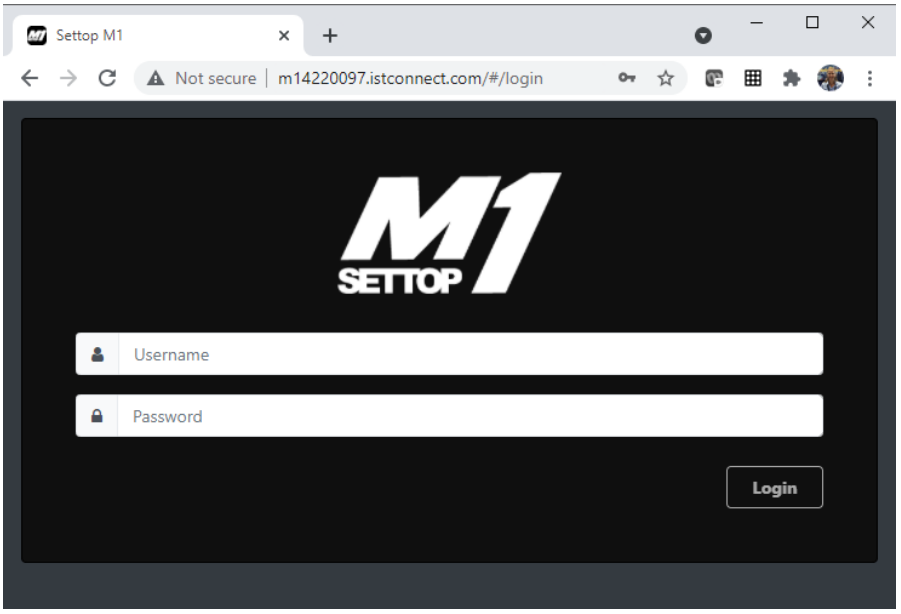


10. Register your unit at ISTConnect, when the icon is green it looks like this:





Now the Settop M1 is available through the internet and the WiFi connection can be closed and the website should be available by entering the URL of your M1 -> **M1<insertserial number>.istconnect.com**



11. Ensure that **Autopower** is enabled. System > Autopower

Troubleshooting Tips

- The WiFi of the M1 is not very strong, have it close to the computer/phone to get a connection. Smartphones will typically find the signal better than a laptop.

- In the US only certain carriers are allowed to connect: T-Mobile and AT&T wifi hotspot internet only (a SIM card for a wifi/mifi hotspot device).

    - Is the SIM card unlimited data or limited data plan? Have they used all of their data up? The user can call their provider to check on the account balance.

    - Did the user register the SIM card with the device IMEI number? (IMEI is found in System> Info on the Settop WebUI)

    - **T-Mobile APN**: fast.t-mobile.com
    - **AT&T APN**: BROADBAND
    - **Movistar APN**: movistar.es
    - **Vodafone APN**: www.vodafone.net.nz

- Ensure firmware is upgraded to the newest version.

- When activating and synchronizing a SIM card to the M1, ensure that the hardware is not too enclosed (e.g. in a metal box, inside an aluminum trailer, between a bunch of concrete and brick, etc) Open space ensures better connectivity to cellular signals.

- Registering with ISTconnect: if you cannot get the 'created new account' to work successfully, ensure that you are on the newest firmware, ensure you can get cellular connectivity, reset device.

- You may need to try registering several times if your first attempt is unsuccessful. If you have another sim that you know is active, then try swapping out the current sim to check that the problem is not with the sim in the Settop.

- If the M1 has shut off or you cannot gain access through the ISTconnect URL, connect directly to the device through the wifi and IP (outlined on Page 2) and ensure that the auto-power option is toggled on/enabled.

- Try your best to close the M1 WebUI in any browser when you are not using it (this includes cellphones and laptops). If you keep the M1's open in the browser it will continue using your cellular data by updating the information in real time. This can use up your data plan in a shorter period of time - unlimited data plans are always a good idea if possible.

- If using a solar/battery power setup at your site, ensure regular power flow to the hardware, try not to allow power to drop below ~10V at any given time. If this does occur, make sure Autopower is still enabled.