



TECHNICAL NOTE

Local Install Assistant using 3rd Gen DTU



Revision History
Version 1.0 (February 2020)
Initial version

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1. Brief Introduction of Local Install Assistant

The Local Install Assistant aims to help the installer to simplify on the installation process. Make sure the quality of communication between DTU and microinverter, also the operation status for DTU and Microinverter is proper. Also, it will help to improve the efficiency for further maintenance.

Note: The first release version – Beta version is a trial version, there might be some unstable condition happens on certain function.

2. Pre-Installation

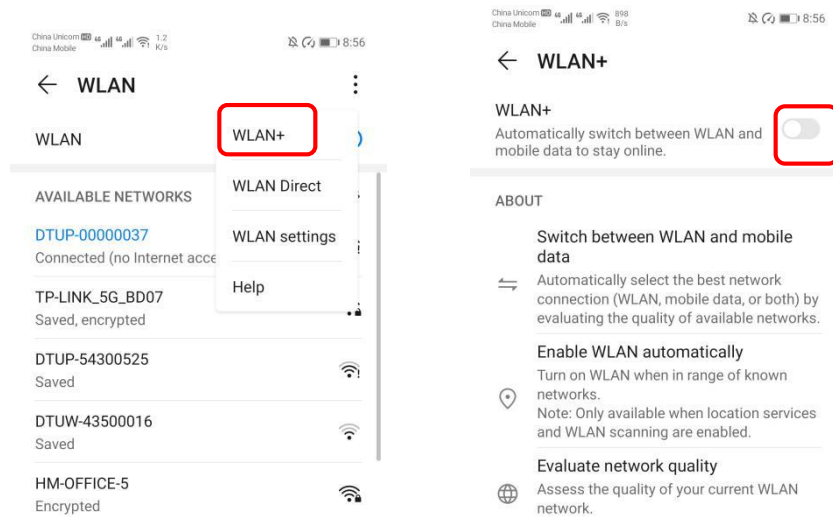
Download the installer App. Please scan the bar code below for App downloading, or you can download it from App Store/Google Play.



Note: Please make sure your App version is 2.1.4 or above for IOS, 2.0.14 or above for Andriod to apply with Local Install Assistant function.

3. WLAN Configuration (Only for Android)

Go to Setting – WLAN – WLAN+, disable the “WLAN+”.



4. Connect the device with DTU WiFi

The Local Install Assistant is only applicable to the following DTU models:

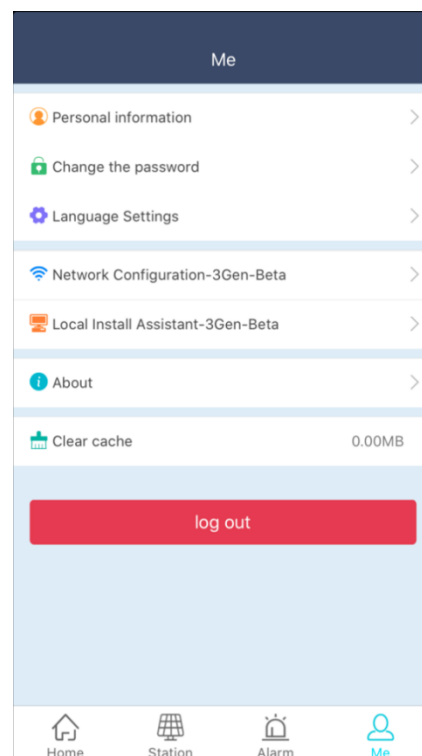
- DTU-W100 (3Gen);
- DTU-G100 (3Gen);
- DTU-Pro (WiFi Version)
- DTU-Pro (GPRS Version)

The WiFi Name for each model will display as below:

Model	DTU WiFi Name
DTU-W100 (3Gen)	DTUL- XXXXXXXXX
DTU-G100 (3Gen)	DTUL- XXXXXXXXX
DTU-Pro (WIFI Version)	DTUP- XXXXXXXXX
DTU-Pro (GPRS Version)	DTUP- XXXXXXXXX

5. Below will take the IOS system as example

Please open the App (Installer App), there is “Network Configuration-3Gen-Beta” & “Local Install Assistant-3Gen-Beta” under “Me” page.



6. DTU Configuration

Connect your device with DTU's WiFi. Press "Setting" – "WLAN" to select the DTU's WiFi. If you get the error as figure 2 indicated, which means the device do not connect with DTU's WiFi properly, please check the connection.

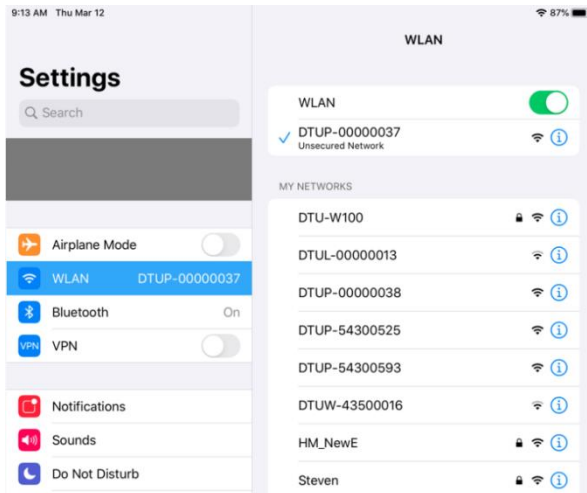


Figure 1

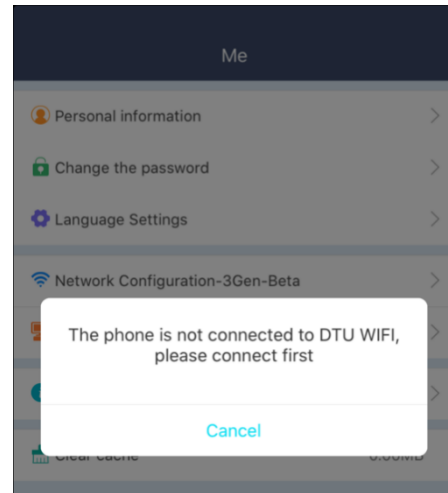


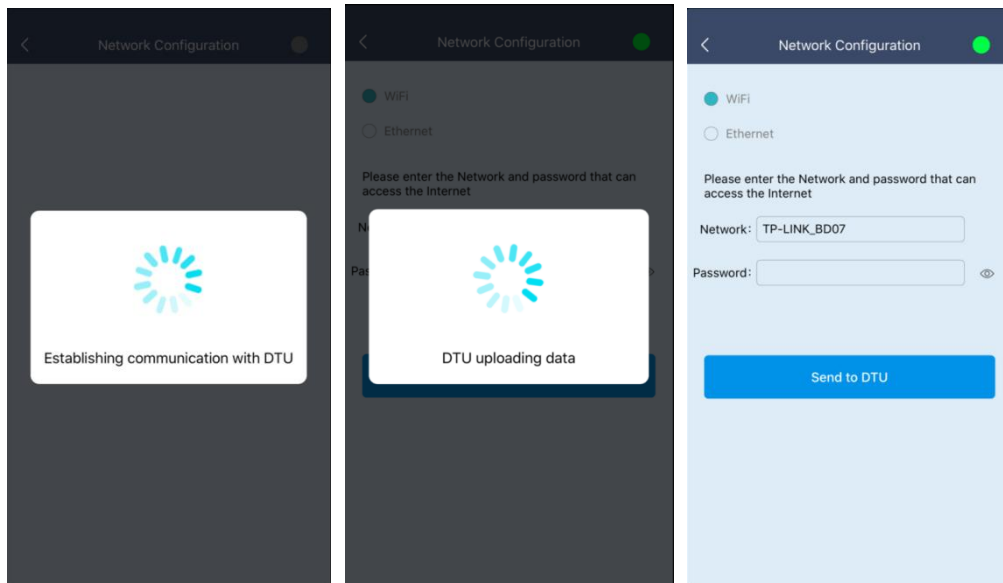
Figure 2

7. Network Configuration

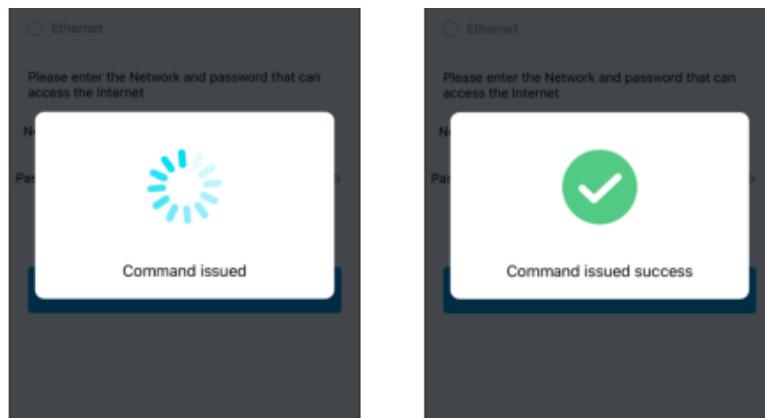
Before creating the power station and using the Local Install Assistant, please select the communication method between the DTU and Hoymiles Monitoring System firstly. Please select "Network Configuration-3Gen-Beta", and then choose the networking method. You can:

- Select "GPRS", if you want to use GPRS as communication method (for 3Gen DTU-G100 and DTU-Pro GPRS Version only);
- Select "WiFi", if you want to use WiFi as communication method, and then select the Network name and input the password for house router (for 3Gen DTU-W100 and DTU-Pro WiFi Version only);
- Select "Ethernet", if you want to use the Lan cable as communication method (for DTU-Pro only).

Note: For IOS system, the current version App need to manually input the Network name, it will be upgraded to manual select in the future.



Please press “Send to DTU” once the Network method be selected, and the command is successfully sent to DTU if you see “Command issued success” message.



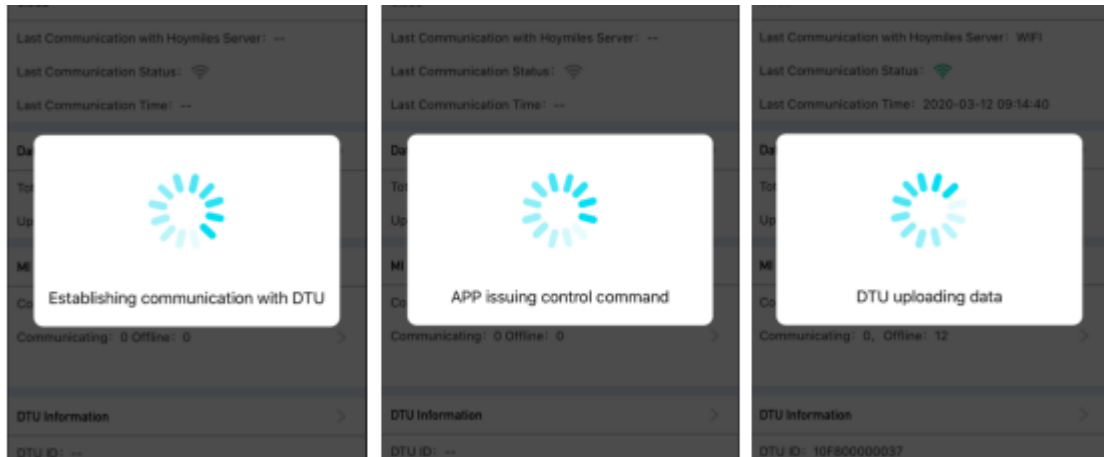
8. Local Install Assistant

8.1 Preparation

Please complete the DTU Network configuration and platform station creation first.

8.2 Start procedure

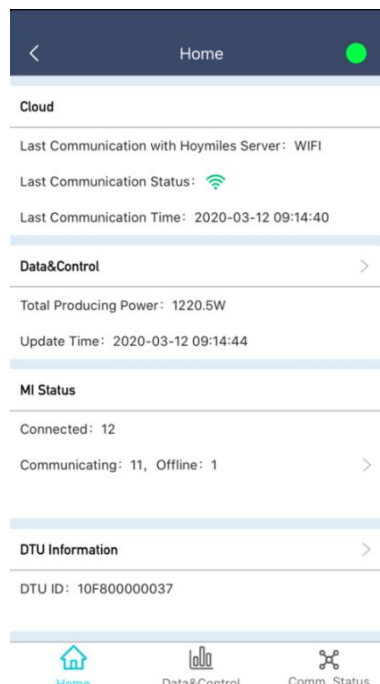
Select the “Local Install Assistant-3Gen-Beta” to enter into the local page. You will see “Establishing communication with DTU”, “APP issuing control command”, and “DTU uploading data” during the loading time (roughly around 10 – 20 secs) before entering into the local page.



8.3 Home page of Local Install Assistant

You will be able to see DTU connection status, Microinverter data, the communication status between DTU and Microinverter, and DTU information on the home page.

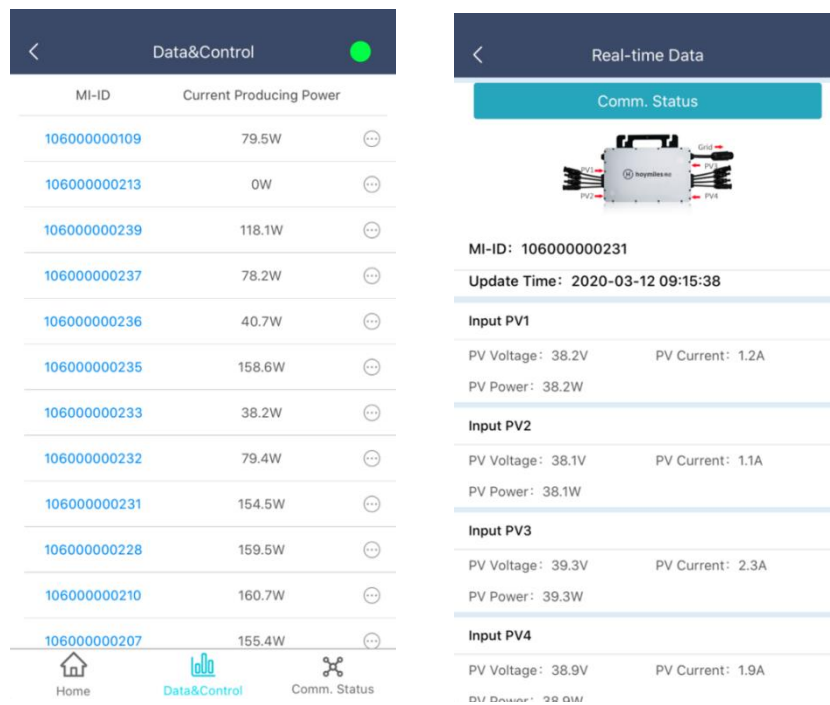
- “Cloud”: contains the communication method between DTU and monitoring platform, and the communication status etc..
- “Data&Control”: contains all real-time data of microinverter’s power generation and some control commands. You can click “Data&Control” to enter into the sub-page.
- “MI Status”: contains all communication status between Microinverters and DTU. You can click “Communicating: 11, Offline: 1” to enter into the sub-page.
- “DTU Information”: contains all DTU device information. Please click “DTU Information” to enter into the sub-page.



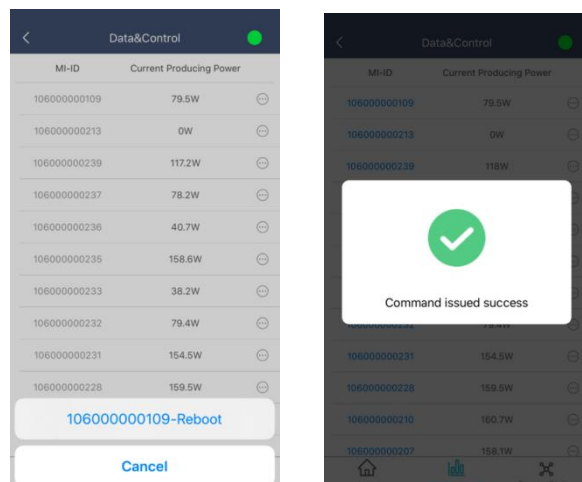
9. Microinverter data page & sub-page

You will be able to see the list of real-time power generation for all microinverter that bind with this DTU. The data on this page will be refreshed automatically in turns.

You can click the microinverter ID on the left side of the list to see more details of the real-time information for this particular microinverter, which will including Voltage, Current, Power etc.. The data will be refreshed for about every 2 secs.



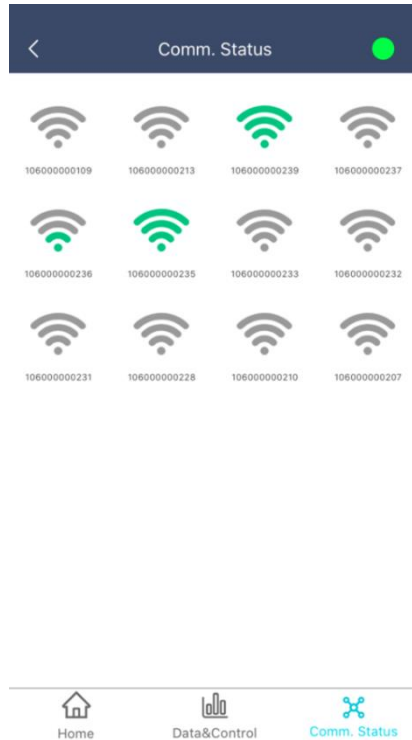
You can press the “...” icon on the right side of the list to see “Restart” functions, once you pressed the restart you will able to see “Command issued success” that means the command has been sent to microinverter successfully (there will be more remote function available in the future version).



10. Microinverter data page & sub-page

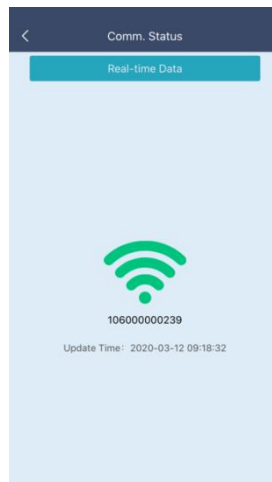
“Comm. Status” contains communication status list for all microinverters. The communication status of the microinverters will be loading in terms when you first enter into this page.

Note: the MI serial microinverter will take around 4 secs to load for each unit’s status, and around 2 secs for HM series.



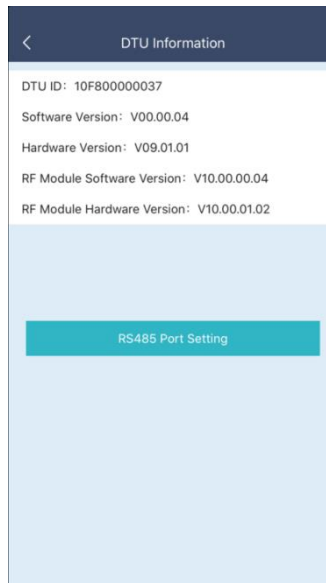
You will able to see more details and accurate communication status if you click the signal icon and enter into the sub-page.

Note: the refresh time for this page will be 20 secs for MI series and 10 secs for HM series.



11. The Sub-page of “DTU information”

You will be able to see the DTU SN, firmware version under “DTU information”



You will be able to set the function of the RS485 on this page (for DTU-Pro only). The default function of the RS485 is for “Export Management”. It can also be used for Remote Control in some European countries if you change the selection to “Remote Control/Modbus Protocol” function. Please input the “RS485 Port Address” (101~254) and click “ok” if you want to use “Remote Control/Modbus Protocol” function.

