



# WL Stick Datalogger Quick Installation Manual

Version: 1.0



## Delivery Content

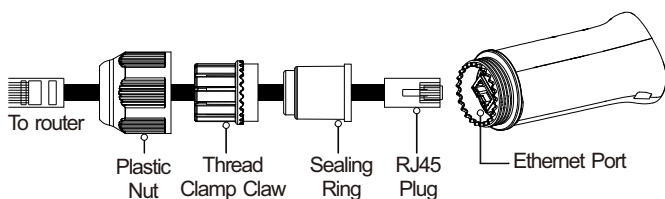
- 1 WL stick
- 1 Quick Installation Manual

# 1 Install

## 1.1 Install the network cable

Step1: Remove the “Plastic Nut”, “Thread Clamp Claw”, and “Sealing Ring” in turn.

Step2: Pass the network cable plug through the “Plastic Nut”, “Thread Clamp Claw”, and “Sealing Ring” (with opening) in the direction as shown in the figure below.

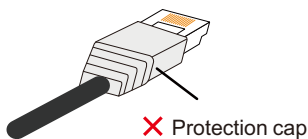
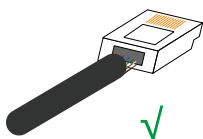


Step3: Fully embed the “Sealing Ring” into the “Thread Clamp Claw”.

Step4: Connect the “RJ45 Plug” to the datalogger and tighten the “Plastic Nut”.

### NOTE

Due to limited space, only RJ45 plug without protective shell can be used.



The diameter of the network cable connection end on the data logger is about 3.5mm after it is completely fastened. The network cable is required to be circular or oval, and the diameter of the network cable needs to be greater than 4mm in order to be properly sealed.

## 1.2 Install the datalogger

Connect the datalogger to the corresponding USB port of the inverter. A Dyness 8K inverter is used here as an example.

Please follow the instructions below:

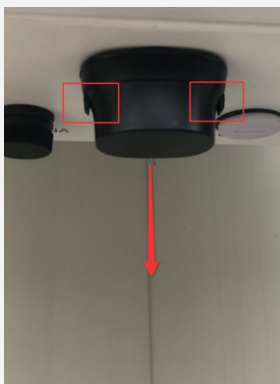


Match the joint

### Install the datalogger:

Step 1: Press both sides of the protective cover and open the inverter USB port protective cover.

Step 2: Match the joint, and then align the datalogger with the USB port groove of the inverter and install it directly.



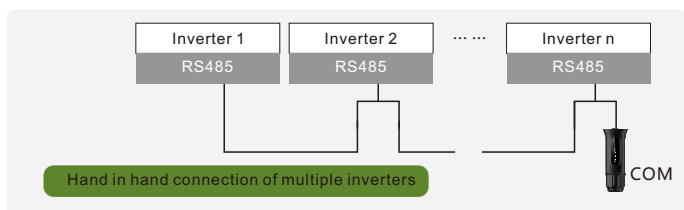
1



2

### 1.3 Install with multiple inverters

If you need to collect data from multiple inverters, please follow the inverter user manual to establish a communication connection with the inverter using the RS485 communication cable in a "hand in hand" manner.



After the datalogger is installed on the inverter, if the inverter is powered on, you need to set the inverter slave address, the default slave address of the inverter is 01, and each inverter on the communication circuit needs to be assigned with different slave address different slave address(like 01, 02, 03, 04...).

#### **NOTE**

The device must be installed away from the strong magnetic field produced by large electrical appliances such as microwave oven, refrigerator, telephone, metal walls, etc. Otherwise, the communication quality may be affected. It may also be affected by lightning storm.

## 2 LED and Button

### LED Lights Status:

LED indicators	Description	LED Status	Meanings
Internet Indicators ● (NET)	Shows the connection status between the datalogger and the server.	Flashing	Trying to connect with server
		ON	Successfully connected
		OFF	Abnormal connection
Inverter COM Indicators ● (COM)	Shows the connection status between datalogger and the inverter.	Flashing	Trying to connect with inverter
		ON	Successfully connected
		OFF	Abnormal connection
Power Indicator ● (PWR)	Shows the power supply status of the datalogger.	ON	Datalogger is powered up normally
		OFF	Datalogger is powered up abnormally

### Button Instruction:

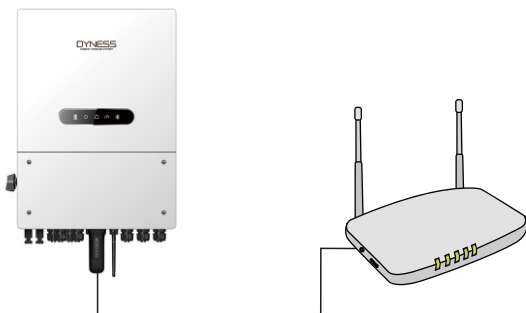
The **[RESET]** button on the front is used for connection.

- Short press will send the data immediately.
- Long press for over 10 seconds until only the red light is on will reset the connection.

The three constantly ON LED lights indicate the datalogger is working normally.

### 3 LAN Configuration

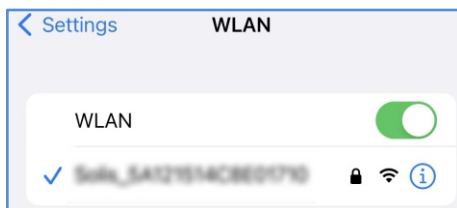
After the datalogger is connected to the router through the network cable, LAN Configuration is completed.



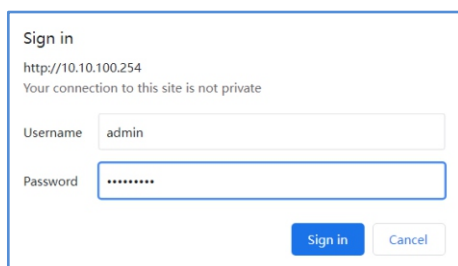
#### NOTE

WL Stick automatically obtains IP by default and connects to the network. If the datalogger fails to connect to the network, please perform the following steps to set the IP address. Otherwise, skip the following steps.

Step 1: The wireless device (mobile phone or laptop) connects to the datalogger hotspot (D\_serial number). The default password is **123456789**.



Step 2: Enter **10.10.100.254** in the web browser, open the following configuration interface. Enter Username **admin** and Password **123456789**.

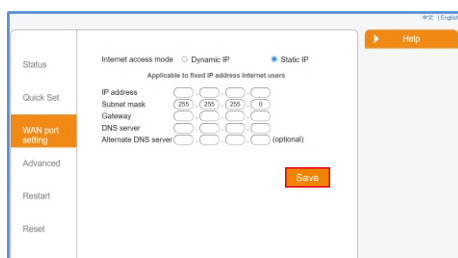


Sign in  
http://10.10.100.254  
Your connection to this site is not private

Username

Password

Step 3: Select the “**WAN port setting**” and “**Static IP**”. Enter IP address, Subnet mask, Gateway address, DNS server address for network cable. Then click “**Save**”.



Status

Internet access mode  Dynamic IP  Static IP

Applicable to fixed IP address Internet users

IP address

Subnet mask

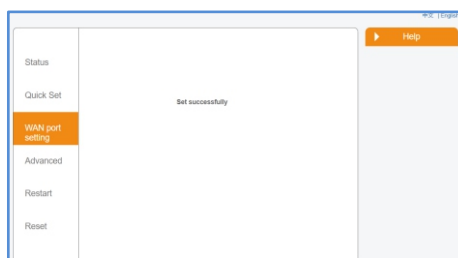
Gateway

DNS server

Alternate DNS server  (optional)

Help

Step 4: The following interface pops up to indicate that the setting is successful. Otherwise please try LAN configuration again.



Status

Quick Set

**WAN port setting**

Advanced

Restart

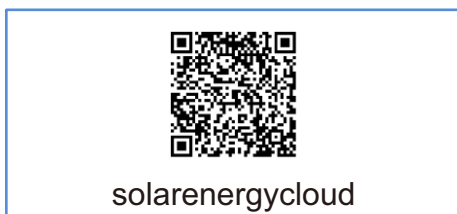
Reset

Set successfully

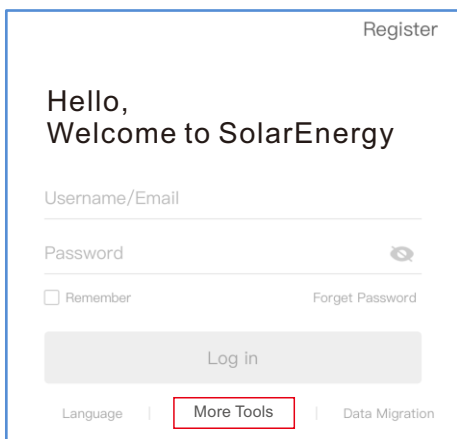
Help

# 4 WiFi Configuration

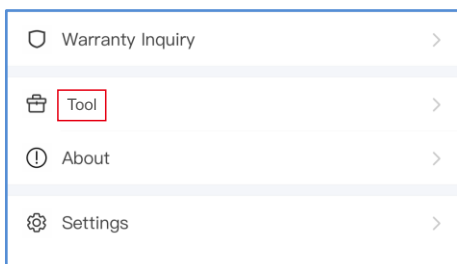
Step 1: Use your phone to scan the QR code to download and register the solarenergycloud APP. Or directly download from APP Store or Google Play Store by searching "solarenergycloud".



Step 2: If it is a new datalogger, please configure it first, then click the "WiFi Configuration".



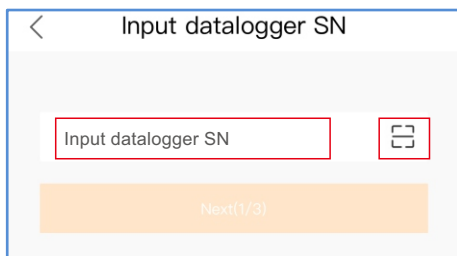
Unlogged account, click on "More Tools" and select "WiFi Configuration"



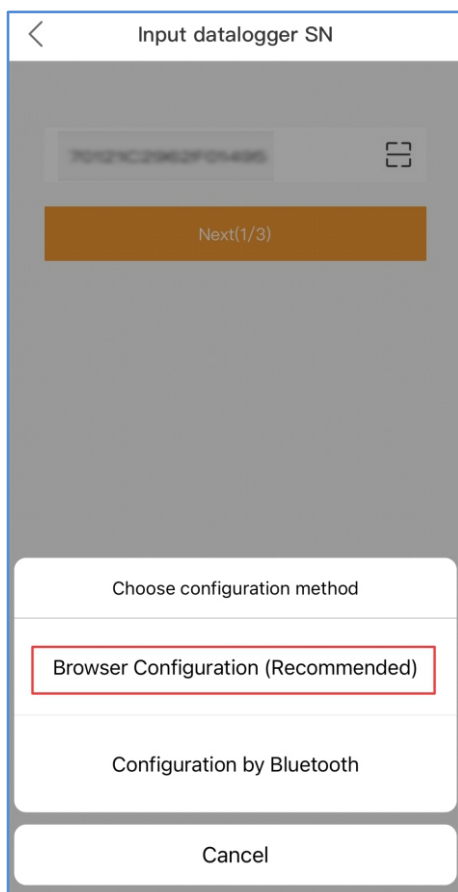
If you have logged in, please click "Tool" to enter "WiFi Configuration"



Step 3: Manually input datalogger SN or scan the SN on the datalogger.




Step 4: Choose the configuration method, then click the "[Browser Configuration](#)".



Step 5: Make sure that the green light flashes at intervals, then click the "I'm sure it is flashing".

< Configuration Tip



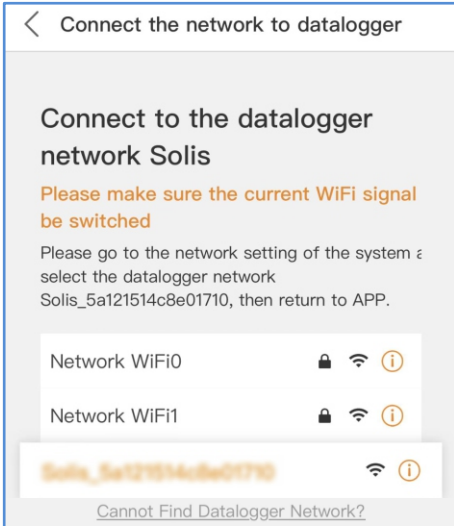
**Please turn on the configuration mode of the datalogger**

Plug the datalogger into the inverter and wait for the indicator light of the datalogger to be stable. That means, the red light on the datalogger keeps on, and the green light flashes every second, as shown in the figure above. Then you can start connecting to the WiFi signal of the logger, click to "[view the tutorial](#)":

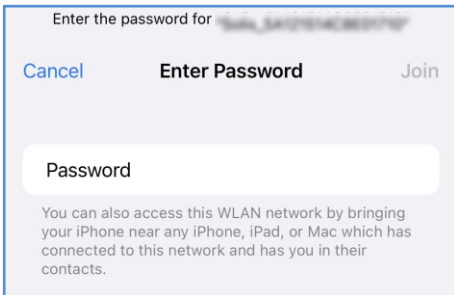
- (1) Make sure that the green light of the datalogger flashes at intervals. If the WiFi signal is not found, try re-plug the datalogger;
- (2) If the WiFi signal still can not be found, please long-press the datalogger for over 10 seconds to restore to the default setting, wait for the indicator light of the datalogger to be stable, and click to [view the tutorial](#);
- (3) If the datalogger is connected to the network, but the network needs to be changed, please follow the method 2
- (4) If the network is not found after multiple attempts of the above methods, please replace the datalogger.

[I'm sure it is flashing](#)

Step 6: Connect to the datalogger hotspot (D\_serial number).




Step 7: The default password is 123456789.



After that, return to APP.

Step 8: Click “☞”, make sure the phone is connected to router WiFi and switch back to the page to fill in the WiFi password, then move to next step.

### Connect to Router


Click to connect router 

Input router's password

Next(2/3)

Step 9: Configuration Complete.

### Configuration Complete



### Configuration Complete

OK(3/3)

The setting is succeeded, the logger will try to connect to the corresponding WiFi source.

Note:

1. It takes about 1 minute for the datalogger to connect to the Internet. If the green indicator light on the logger is always on, it means that the logger is rightly connected to the Internet.
2. If the green indicator light of the logger keeps flashing after 1 minute, please try reset it again.

For more help or other questions, please check the installation manual or contact the local distributor for help.

# 5 Change the Password

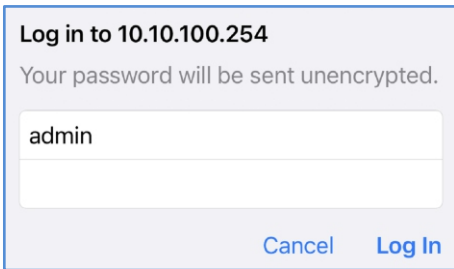
For security reasons, you are advised to change the password of the datalogger hotspot, which is also the login password of the website [10.10.100.254](http://10.10.100.254).

Step 1: The wireless device (mobile phone or laptop) connects to the datalogger hotspot (D\_serial number). The default password is [123456789](#).

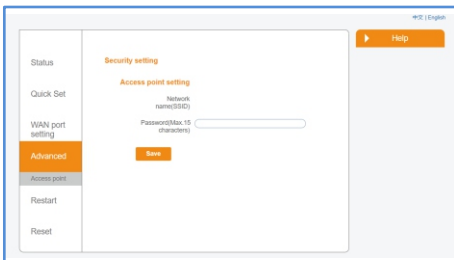


Step 2: Enter [10.10.100.254](http://10.10.100.254) in the web browser when the router is not connected, open the following configuration interface.

Enter Username [admin](#) and Password [123456789](#).

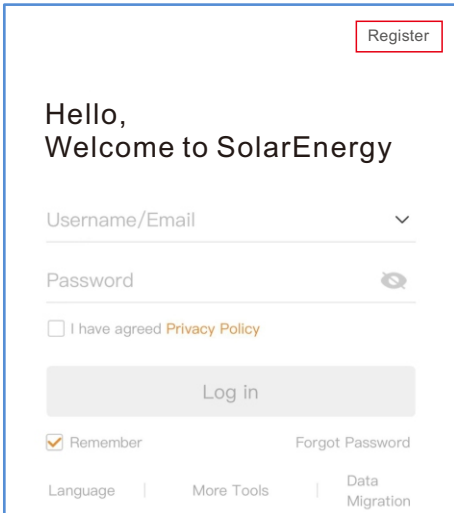


Step 3: Select the "Advanced", enter the new password and then click the "Save".



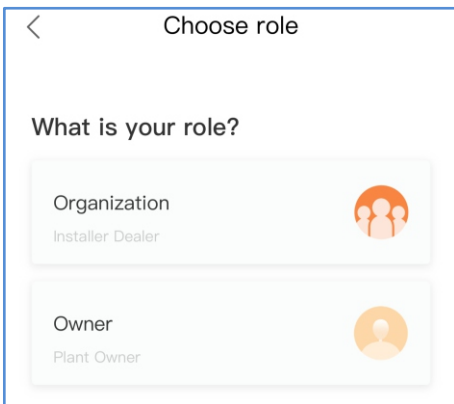
# 6 Create the solarenergycloud Account

Step 1: Click the “[Register](#)”.



The screenshot shows a registration page for SolarEnergy. At the top right, there is a red-bordered button labeled "Register". Below it, the text reads "Hello, Welcome to SolarEnergy". There are two input fields: "Username/Email" with a dropdown arrow and "Password" with an eye icon. Below the password field is a checkbox labeled "I have agreed [Privacy Policy](#)". A grey "Log in" button is positioned below the checkbox. At the bottom, there are three links: "Remember" (with a checked checkbox), "Forgot Password", "Language", "More Tools", and "Data Migration".

Step2: Select Owner or Organization for email address registration.



The screenshot shows a screen titled "Choose role" with a back arrow on the left. The question "What is your role?" is displayed. There are two selectable options, each with a circular icon: "Organization" (Installer Dealer) with an icon of three people, and "Owner" (Plant Owner) with an icon of a single person.

Step3: Enter the email to get the verification code, than enter your account and password, last click the "Register".

< Owner

\* Registration Method

Input email

Input verification code Send

\* User Name

Input 2 to 60 English letters, not pure n...

\* Password

Input 6 to 32 letters, symbols and...

\* Time Zone

(UTC+08:00) PRC >

\* I have agreed [Privacy Policy](#)

Register

Owner Register



## Organization

**Note:** If your organization has registered an account in SolisCloud, you do not need to register again. Please contact the administrator to add you as a sub-organization or member in organization management.

\* Organization (Company) Name

Input 2 to 60 characters

\* Registration Method

Input email

Input verification code

Send

\* User Name

Input 2 to 60 English letters, not pure n...

\* Password

Input 6 to 32 letters, symbols and...



\* Organization Code

541248



\* Time Zone

(UTC+08:00) PRC



\* I have agreed [Privacy Policy](#)

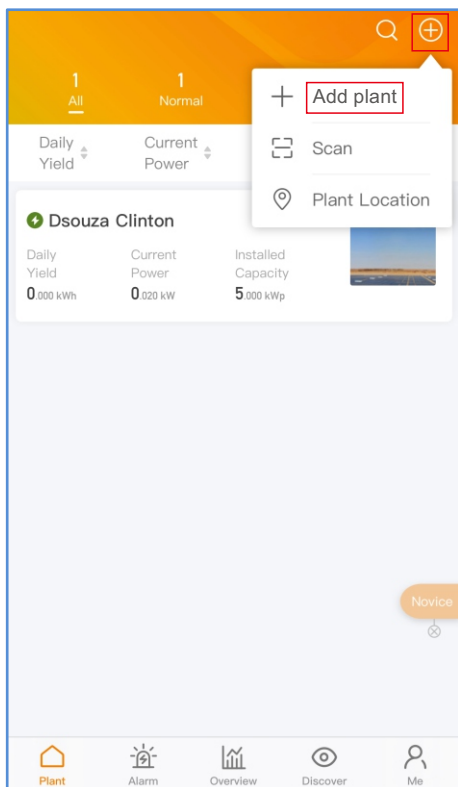
Register

Organization Register



# 7 Create Plant

Step1: Enter the main page of solarenergycloud APP, click “+” at the top right corner and select "Add plant".



Step 2: Input the information of the plant as required.  
Then click "Done".

< Create Plant Done

* Plant Name	Input plant name
* Installed Capacity(kWp)	Installed Capacity
* Area	Location 📍
* Plant Address	Input detailed address
* Earning per kWh	Input Earning per kWh
Organization Code	Input Organization Code >
Add Guest ?	⊕
Installer Phone	Input installer phone
Installer Email	Input installer's email
Module	Input number of modules
Plant Type	Residential >
Grid Connection Type ?	Entire Energy to Grid >
* Time Zone	-- >
* Currency	-- >

Step 3: Confirm the plant information.  
Click "[Create plant](#)".

Plant Name test

Rated Power(kWh) 5

Location

Plant Address

Currency CNY

Earning per kWh(CNY/kWh) 0.3949

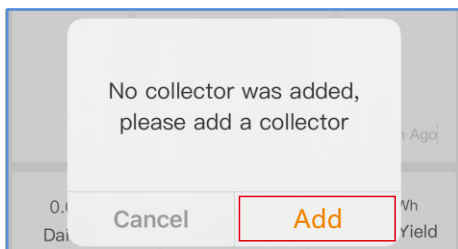
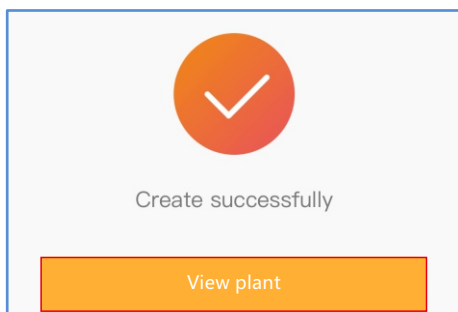
Inclination 30

Timezone (UTC-12:00) Sun Line West

Installator 2020-04-03

Cancel Create plant

Step 4: Click "[View plant](#)" to enter the plant homepage , then add the datalogger.



Step 5: Scan the SN number of the datalogger or manually input it.



Note: Scan the **datalogger SN**, NOT the **inverter SN**.



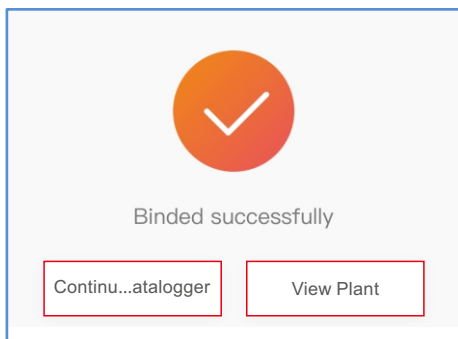
Ambient temperature	-40...+60°C
AC-Input	
Rated Voltage a.c.	1/N/PE, 220 V/230 V
Current(maximum continuous)	20.0 A
Rated Frequency	50/60 Hz
 S/N	110F40186080081

Dyngess Digital Energy Technology Co., LTD.  
No.688, Liupu Road, Guoxiang Street, Wuzhong Economic and Technological Development Zone, Suzhou, Jiangsu, China  
Made in China

✓

✗

Step 6: Plant creation succeeds. Click "[Continu...atalogger](#)" to check the monitoring data. If the plant has multiple dataloggers, please click "[View Plant](#)".





## FCC Certification

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **FCC warning:**

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **Note:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## Contact

Please contact us if you have any technical problems in terms of the product. Please provide the following information as well:

- ◆ Inverter SN
- ◆ Datalogger SN
- ◆ Problem Description

### **Dyness Digital Energy Technology Co., LTD.**

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