MOBATIME

Quick Installation Guide

ECO-DC Wifi Digital Clock's

The WiFi clock has default network settings, which are used to connect the clock to a computer with Hotspot function.

Once this connection to the WiFi clock is established, the clock network settings must be changed to the final settings of customers existing WiFi network.

Step	To Do	Notes
1.	Connecting to the WiFi clock using the Hotspot function of your computer. 1. Use a windows 10 OS based computer that is capable of WiFi. 2. Open the Mobile Hotspot menu on your computer 3. Configure your mobile hotspot with the default settings of the WiFi clock: Network Name: **MOBA-WIFI** Password: **hgfedcba** Network Band: **2.4 GHz** 4. Turn on the hotspot on your computer 5. Plug in the clock to mains power 6. Set value 2 in item P15 in the main MENU. Please see clock manual for instruction. 7. Check on the computer if the WiFi clock is connected correctly to the hotspot. You can Check also the displayed MAC address to ensure the connection of the right clock.	**Mobile hotspot** Share my Internet connection with other devices ● On Share my Internet connection from Wi-Fi Share my Internet connection over ◉ Wi-Fi ○ Bluetooth Network name: MOBA-WIFI Network password: hgfedcba Network band: 2.4 GHz Edit Devices connected: 0 of 8 Network name: MOBA-WIFI Network password: hgfedcba Network band: 2.4 GHz Edit Devices connected: 1 of 8 Device name IP address Physical address (MAC) MOBATIMEB8AD60 192.168.137.71 d4:ca:6e:b8:ad:60
2.	Now connect to the clock with telnet. 1. Install the freeware "Putty" on your computer. Make sure that	(Example: Putty https://www.putty.org/)

	the software is installed correctly on your computer. 2. Connect with Putty (connection type telnet) to your WiFi clock. For this, you need the clocks IP address which is displayed on the hotspot configuration overview. 3. Click "Open" and enter the Password: **718084** Now you have access to the clock via the putty tool.		
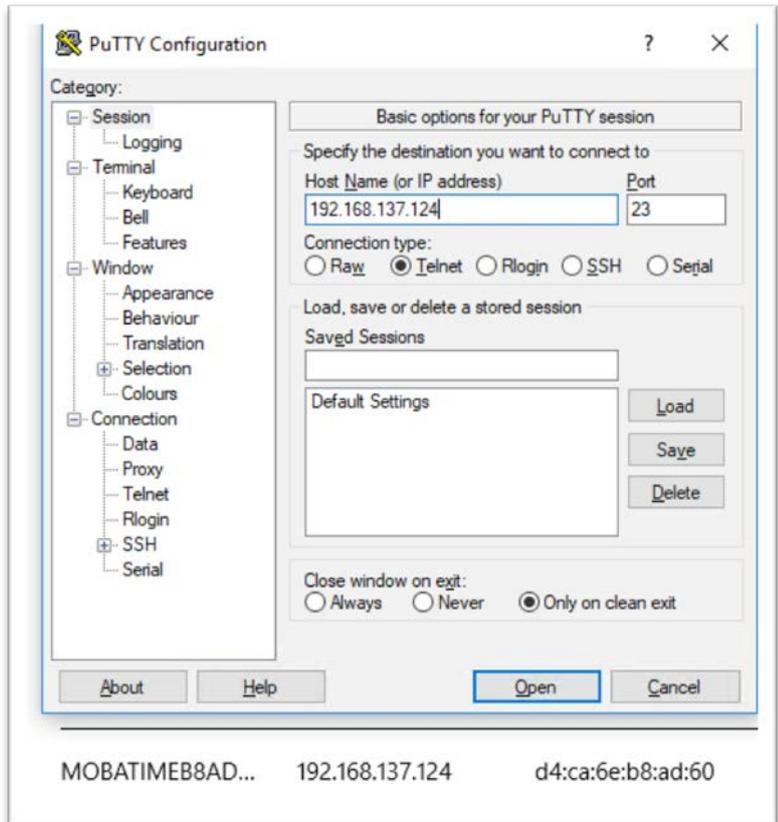
| 3.1 DHCP | **Option 1:**
 Integrate the WiFi clock into the desired WiFi network with DHCP.

 For this, the information about your WiFi network with DHCP is needed:
     a. SSID
     b. Password
     c. Security/ encrypt. type
     d. NTP Server
     e. Network operation mode: unicast, DHCPv4
     f. Change Wifi Mode to the above defined network

 Use the following commands for the WiFi clock configuration.
 1. **Putty:** wifi –s <SSID>
 As example **wifi –s Mobatime**
 Press "enter" and continue with step 2 - 8
 2. **Putty:** wifi –p <Password>
 3. **Putty:** wifi –w <Encryption type see on the printscreen>
 4. **Putty:** conf –u1 <NTP Server> | Example for WiFi network settings:

  | |

	5. **Putty:** conf –p8:03 6. **Putty:** wifi –m 1 7. **Putty:** exit With the command "exit" the configuration settings will be submitted to the WiFi clock. Your WiFi clock is now connected to your local WiFi network.	After "exit" this message appears, which is normal.
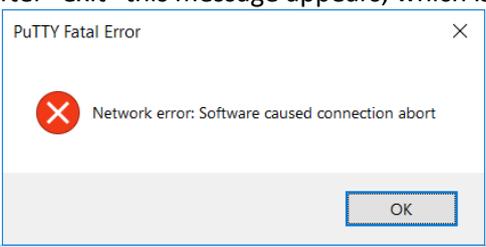
3.2 Static	**Option 2:**
	Integrate the clock into the desired WiFi with static IP.
	For this, the information about your wifi without DHCP is needed:
	   a. SSID
	   b. Password
	   c. Security/ encrypt. Type
	   d. Network operation mode: unicast, manual network settings
	   e. IP
	   f. Gateway
	   g. Subnetmask
	   h. NTP Server
	   i. DNS Server
	   j. Change Wifi Mode
	
	Use the following commands for the WiFi clock configuration.
	1. **Putty:** wifi –s <SSID>
	As example **wifi –s Mobatime**
	Press "enter" and continue with step 2 - 11
	2. **Putty:** wifi –p <Password>
	3. **Putty:** wifi –w <Encryption type see on the printscreen>
	4. **Putty:** conf –p8:02
	5. **Putty:** conf –i <IP>
	6. **Putty:** conf –s <Subnet Mask>
	7. **Putty:** conf –g <Gateway>
	8. **Putty:** conf –u1 <NTP Server>
	9. **Putty:** conf –d <DNS Server>
	10. **Putty:** wifi –m 1
	11. **Putty:** exit
	With the command "exit" the configuration settings will be submitted to the WiFi clock. Your WiFi clock is now connected to your local WiFi network.
		``
		> wifi -s mobatime
		> wifi -p 123456789
		> wifi -w 4
		> conf -p8:02
		> conf -i 192.168.1.2
		> conf -s 255.255.255.0
		> conf -g 192.168.1.1
		> conf -u1 ntp.mobatime.com
		> conf -d 8.8.8.8
		> wifi -m 1
		``
		
		``
		- Security type
		  0-None, 1-Reserved, 2-Reserved,
		  3-WPA, 4-WPA2, 5-WPA/WPA2,
		  6-LEAP, 7-PEAP
		``
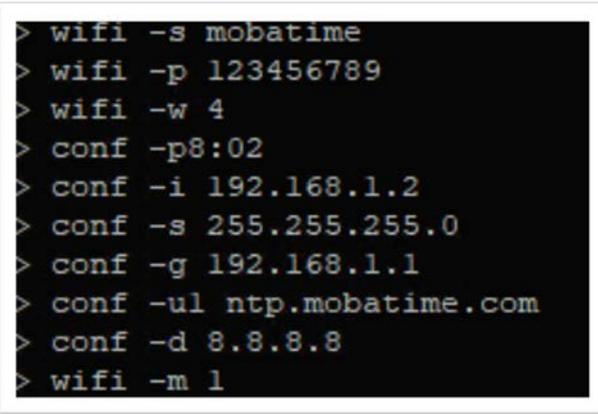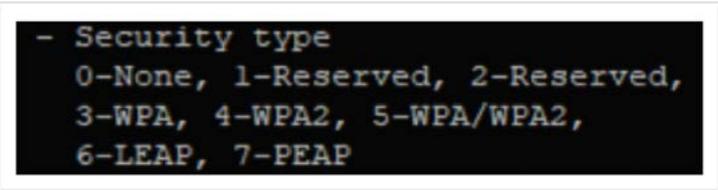		
		After "exit" this message appears, which is normal, because of lost network connection.

5.	Configure the correct time zone. 1. Connect to your clock with a telnet client 2. **Putty:** conf –p6:<ZoneTable>	``` > conf -p6:11 ```