

1000i IPKTS

Wi-Fi Setting Guide

Version	Date	DESCRIPTION OF CHANGES
1.0	2021/05/21	Initial Release
1.1	2022/11/02	Added “Phone Entering Text “ Added “How to enter the Wi-Fi Settings Menu”
1.2	2025/02/28	Changed company name.

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Introduction

The 1040i and 1050i are equipped with USB ports, and you can use a Wi-Fi dongle to access your wireless network (AP). This guide provides the LCD and web menus required for Wi-Fi settings. In the LCD menu, you can set up a wireless network with only a connectable AP. First, connect the Wi-Fi dongle to the USB port located on the back of the terminal.

Note: When connecting to a Wi-Fi dongle, support Wi-Fi settings menu in the Phone Network Settings(11. Wi-Fi settings).

- Supported Terminal models and S/W versions
 - . 1040i and 1050i (Version Rls.1.2.0 or later, Rls.3.0.0 or later)
- Compatibility Wi-Fi Dongle Lists
 - . TP-LINK Archer T3U (AC1300 Mini Wireless MU-MIMO USB Adapter, Ver:1.0)
 - . TP-LINK Archer T4U (AC1300 Wireless Dual Band USB Adapter, Ver:3.0)
 - . D-Link DWA-182 (Wireless AC1300 MU-MIMO Wi-Fi USB Adapter, Revision D)
 - . TP-LINK Archer T3U PLUS V1 (Supported on Terminal S/W Version Rls.3.0.0 or later)
 - . TP-LINK Archer T3U NANO V1(Supported on Terminal S/W Version Rls.3.0.0 or later)
- Note
 - . IPECS cannot guarantee other model except the above list and this list will be updated if we have finished testing the new one anytime.
 - . The Wi-Fi and Bluetooth dongle cannot be used together, only one must be connected to the USB port.
 - . Wireless, which uses a dongle, only supports IPv4 address.
 - . To operate reliably against radio interference, we recommend using 5 GHz.
 - . If the Wi-Fi wireless connection does not work during boot, re-register with the AP.
 - . The TP-LINK Archer T3U PLUS dongle does not support phone stand position adjustment and wall mount installation.

Wi-Fi dongle supported in 1040i/1050i

- TP-LINK Archer T3U
AC1300 Mini Wireless MU-MIMO USB Adapter, Ver:1.0
- TP-LINK Archer T4U
AC1300 Wireless Dual Band USB Adapter, Ver:3.0



- D-Link DWA-182
Wireless AC1300 MU-MIMO Wi-Fi USB Adapter, Revision D



LCD Menu

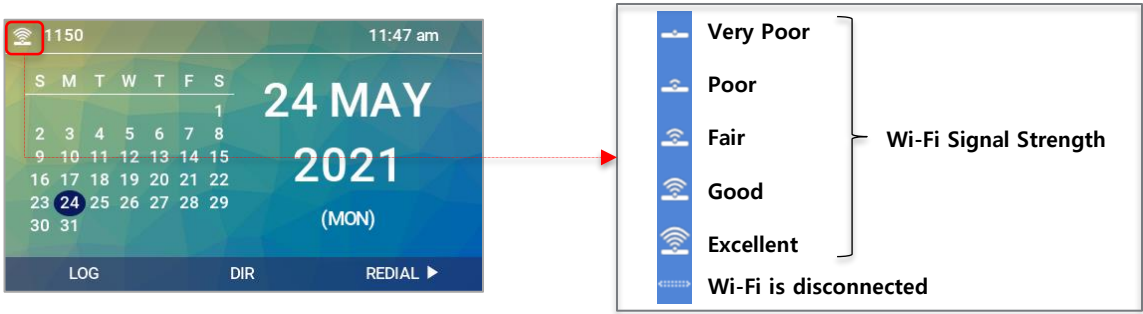
Soft Buttons and Wi-Fi Status Icon

[LCD]

The button functions used in the Wi-Fi setup menu

Buttons	Functions
BACK	Return to the previous menu.
ON	Turn on the Wi-Fi
OFF	Turn off the Wi-Fi
CONNECT	Attempt to connect to the selected AP.
EDIT	Change the information of the selected AP and connect.
DISCONNECT	Disconnect from the connected AP, but data is retained.
DELETE	Disconnect from the connected AP and erase all data.
SEARCH	Search for AP again.
2.4G	Re-search only 2.4G APs
5G	Re-search only 5G APs
2.4G / 5G	Re-search for both 2.4G and 5G APs
ADD	Add AP manually.
◀ or ▶	Means there is an additional Soft menu, use the Left/Right navigation buttons.
NAVI or VOL Up/Down	It is used to move to the desired AP on the AP list screen.
TRANS button	It is used as a soft key MODE in the input screen.

Wi-Fi Status Icon

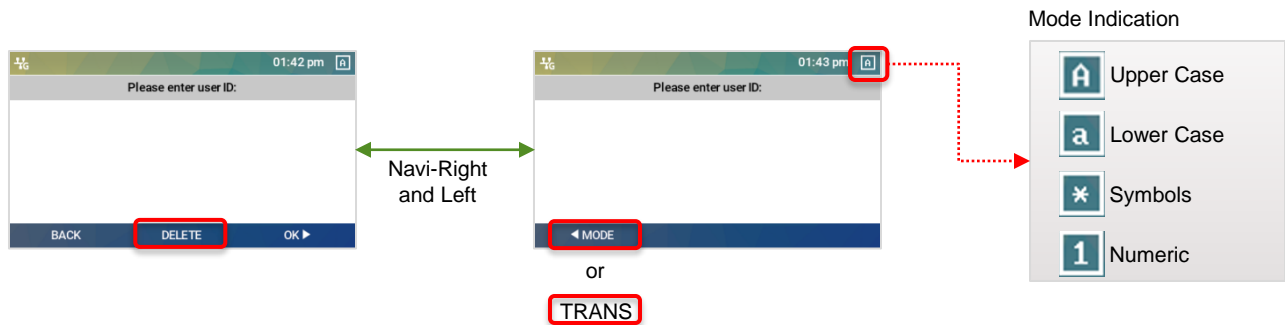


Phone Entering Text

[LCD]

- **Input mode and character deletion**

To change the input mode, use the MODE on the soft menu or the TRANS button.



To delete a character, use the DELETE on the soft menu or the DND button.

- **1000i series phone's Character Entry Chart**

(D1: Press once, D2: Press twice, D3: Press three times, D4: Press four times)

	Entry Mode												
	Upper Case				Lower Case				Symbols				Numeric
	Button Depressions												
Dial Pad Digit	D1	D2	D3	D4	D1	D2	D3	D4	D1	D2	D3	D4	D1
1	@	:	/		@	:	/		@	:	/		1
2	A	B	C		a	b	c			\$	%		2
3	D	E	F		d	e	f		^	&	_		3
4	G	H	I		g	h	i		()	?		4
5	J	K	L		j	k	l		-	+	/		5
6	M	N	O		m	n	o		<	>	=		6
7	P	Q	R	S	p	q	r	s	;	:			7
8	T	U	V		t	u	v		'	"	`		8
9	W	X	Y	Z	w	x	y	z	{	}			9
0	.	,	?	!	.	,	?	!	.	,	?	!	0
*	.	*			.	*			.	*			*
#	Space(' ')				Space(' ')				#	[]		#

Example :

'A' : Select Mode as Upper Case and press Dial 2 once.

'b' : Select Mode as Lower Case and press Dial 2 twice.

How to set up Wi-Fi

[LCD]

The Wi-Fi setting menu is only displayed when the Wi-Fi dongle is installed, so you must first plug the dongle into the USB port on the back of the phone.

Procedure for setup :

- Step 0. Connect Wi-Fi USB dongle
- Step 1. Turn-on Wi-Fi
- Step 2. Search & Connect AP
- Step 3. Configure Network
- Step 4. Reboot the phone

How to enter the "Wi-Fi Settings" Menu

[LCD]

Enter the "Network Settings" Menu

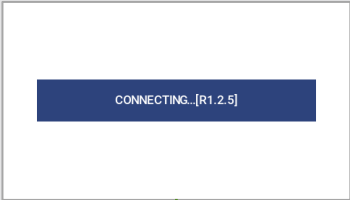
- If already registered in the system and works normally.



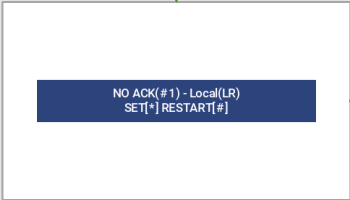
Cloud(CM) : MENU + 80
UCP : TRANS + 78

If it is registered in the system but doesn't work due to disconnection, restart and enter from the screen below.

- If not yet registered with the system

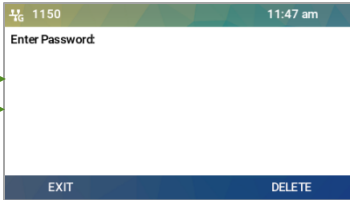


Press TRANS

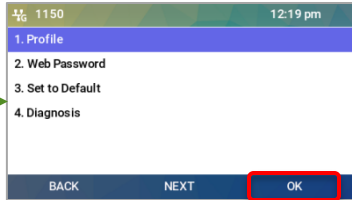


Press *

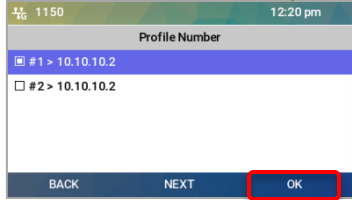
Enter Password : 1 4 7 *



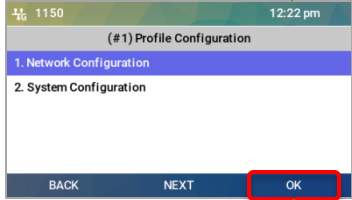
Select the "1. Profile"



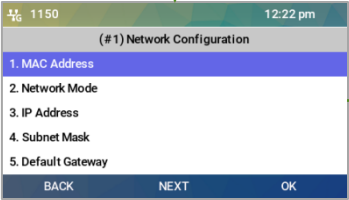
Select the desired profile



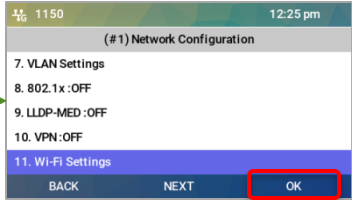
Select the "1. Network Configuration"



Select the "11.Wi-Fi Settings"



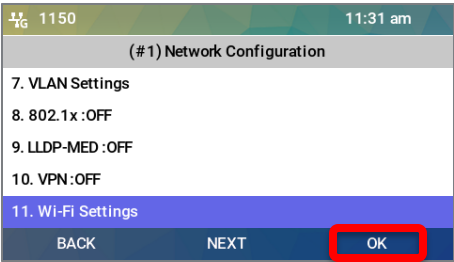
Press Navi-down



Turn-on Wi-Fi and Scan AP

[LCD]

1. Select “11. Wi-Fi Settings” from the Network Settings – Profile – Network Configuration



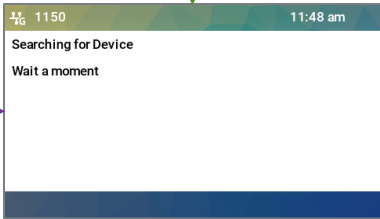
When Wi-Fi is off

2-1 Turn-on Wi-Fi if it is off



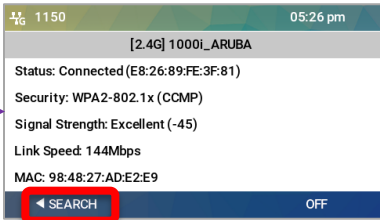
When Wi-Fi is already on

2-2 Searching AP



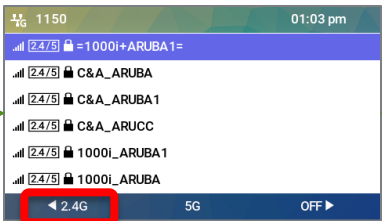
When Wi-Fi is connected

2-3 View current connected AP



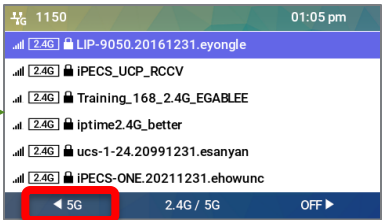
Searching AP...

Scan 2.4G / 5G both



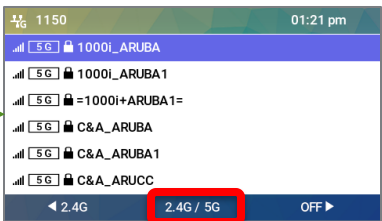
Searching AP...

Scan 2.4G only



Searching AP...

Scan 5G only



Searching AP...

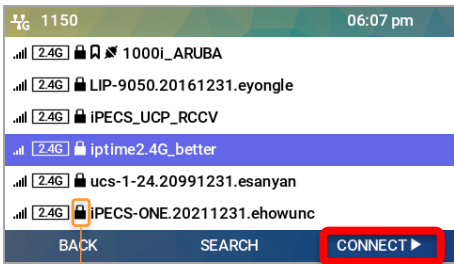
Icons

- Very Poor
- Poor
- Fair
- Good
- Excellent
- 2.4G 2.4G only
- 5G 5G only
- 2.4/5 2.4G/5G both
- Secured AP
- Saved AP
- Connected AP

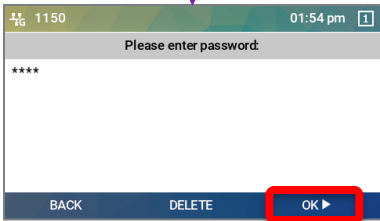
Connect to the scanned AP

[LCD]

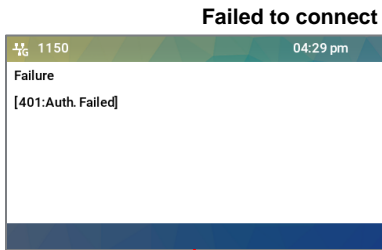
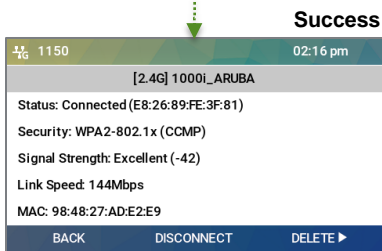
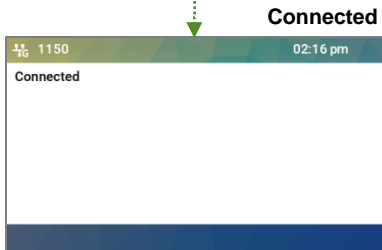
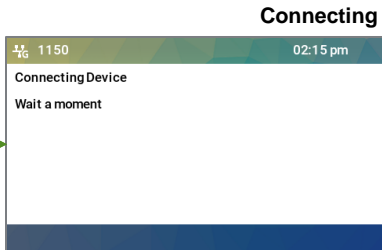
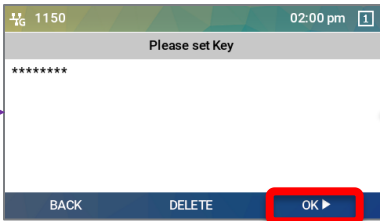
1. Move to the desired AP and press “CONNECT”



2-1. Enter ID & Password



2-2. Enter key

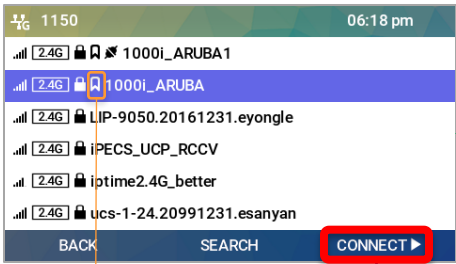


☞ To change the input mode, press the soft key "MODE" or "TRANS" button.
☞ Refer to "Phone Entering Text" for text input.

Connect to a saved AP

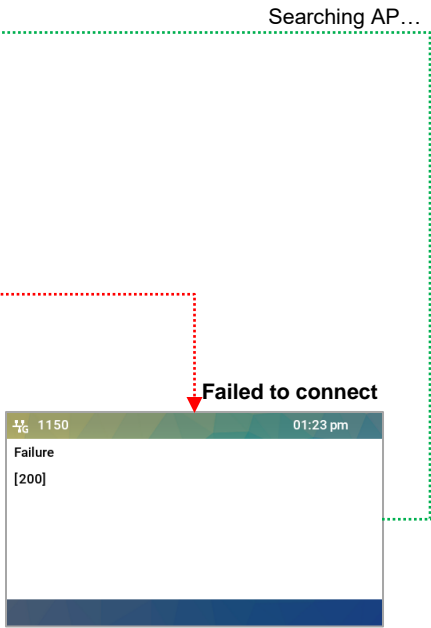
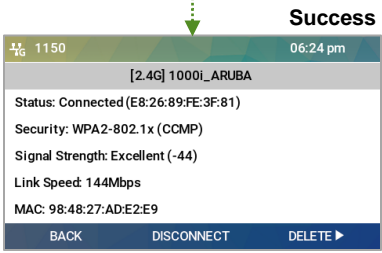
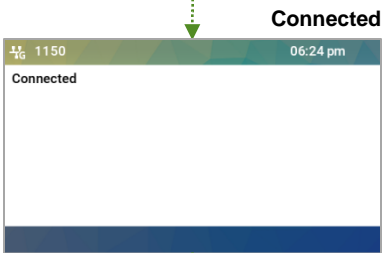
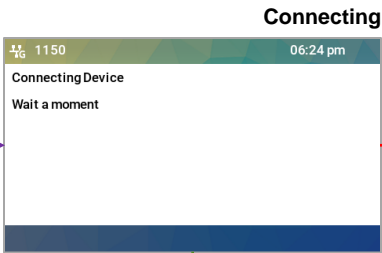
[LCD]

1. Move to the desired saved AP and press “CONNECT”



🔖 means saved AP

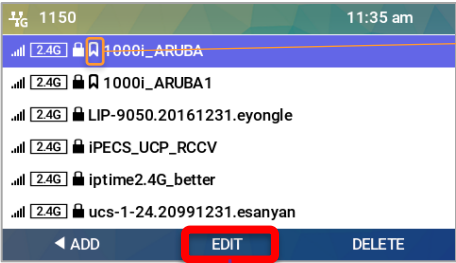
📖 For APs that have already been saved, attempt to connect without ID & Password.



Connect by editing the saved AP

[LCD]

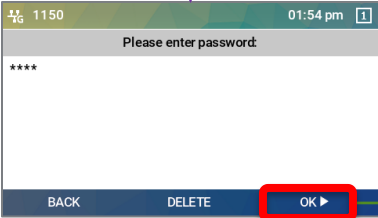
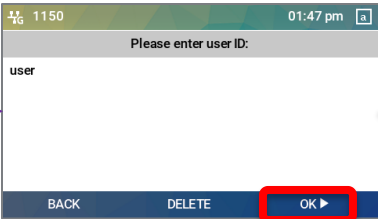
1. Move to the desired saved AP and press "EDIT"



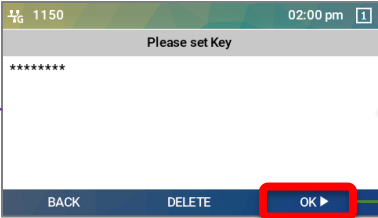
means saved AP

If the information of saved AP has been changed, you can edit and reconnect from the EDIT menu.

2-1. Enter ID & Password



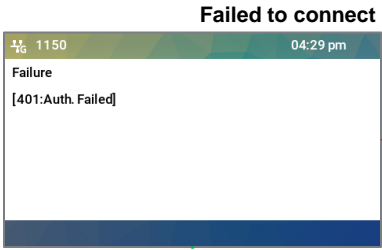
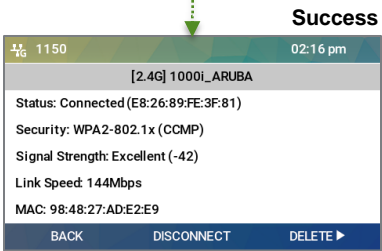
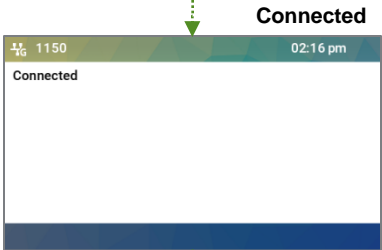
2-2. Enter key



Auth. Type :
WPA-Enterprise

Auth. Type :
WPA-Personal

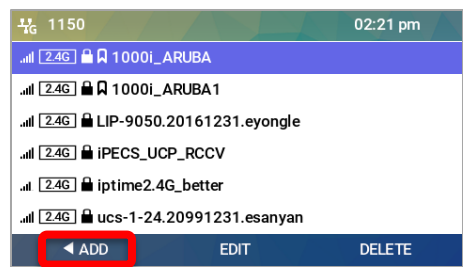
- To change the input mode, press the soft key "MODE" or "TRANS" button.
- Refer to "Phone Entering Text" for text input.



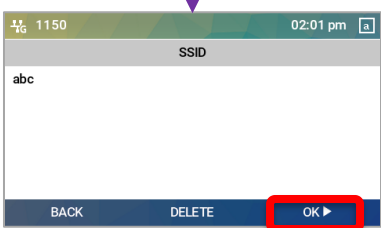
Connect by manually adding AP

[LCD]

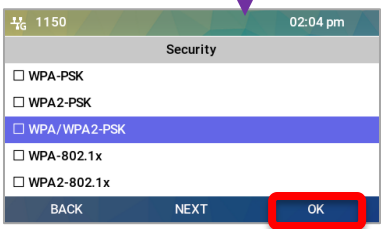
1. Press “ADD” on the AP list screen



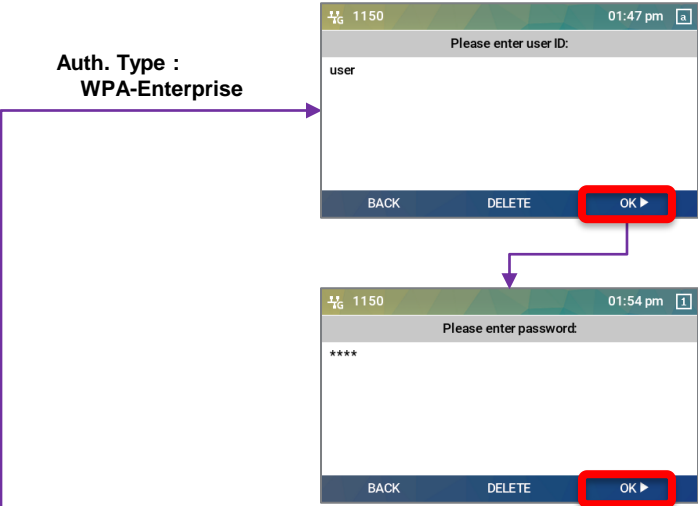
2. Enter SSID



3. Select auth. type



4-1. Enter ID & Password



Auth. Type :
WPA-Enterprise

4-2. Enter key

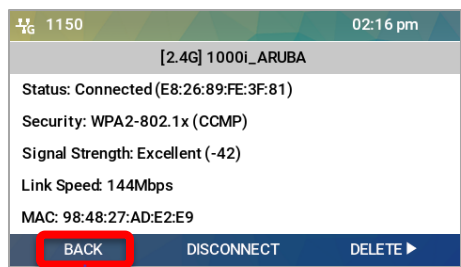


Auth. Type :
WPA-Personal

- ☞ To change the input mode, press the soft key "MODE" or "TRANS" button.
- ☞ Refer to "Phone Entering Text" for text input.

After connecting AP, set up the network and exit the menu[LCD]

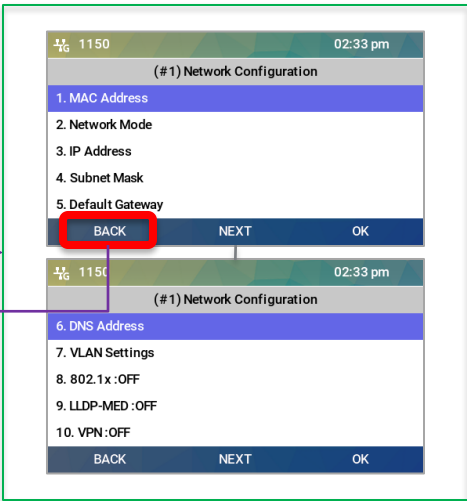
1. Press "BACK" for other network settings.



☞ You can set up your network and server before setting up the Wi-Fi.
If the Network, Server or Wi-Fi settings are changed, you must reboot.

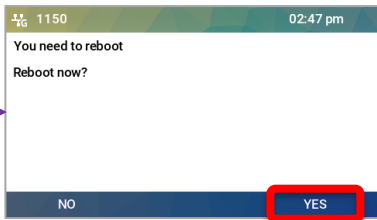
☞ Even if the Wi-Fi is turned on and connected to the wireless AP,
the wired connection is maintained before rebooting.

2.1 Network Configuration



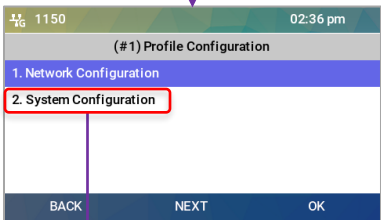
3. To exit the menu or to finish settings, press 'Speaker' button.

☞ If you press the Speaker button in all menus, the following screen is displayed.

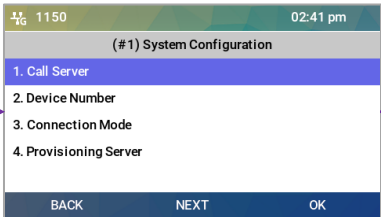


- 1) Press 'YES' :
The phone will reboot to apply the changes.
- 2) Press 'NO' :
The phone saves the changes, but exits the menu without applying.

☞ Even if Wi-Fi is connected,
you must reboot to operate wirelessly.



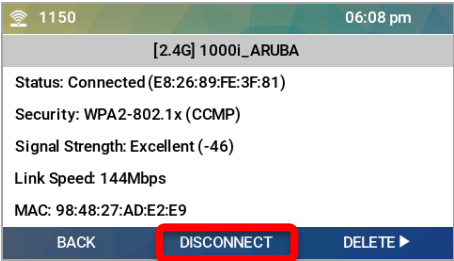
2.2 System Configuration



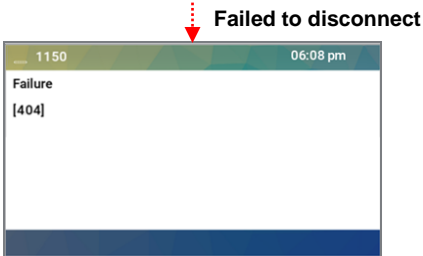
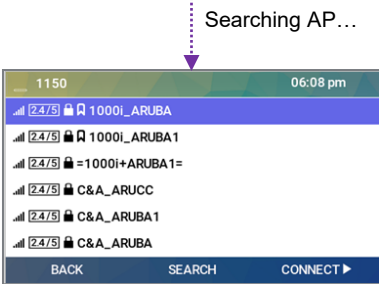
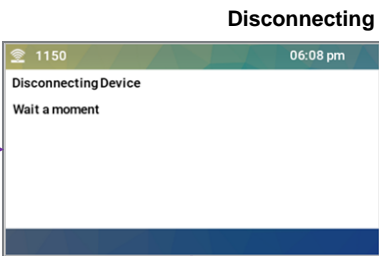
Disconnect the connected AP

[LCD]

1. Press “DISCONNECT” in the connected AP Information.



- ☞ All data of the disconnected AP is maintained as the saved AP.
- ☞ If you perform 'DISCONNECT' in the wireless connection state, the network is disconnected, so be careful.

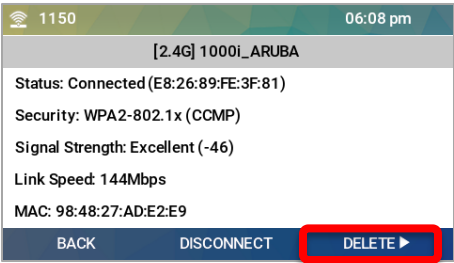


Delete the connected AP

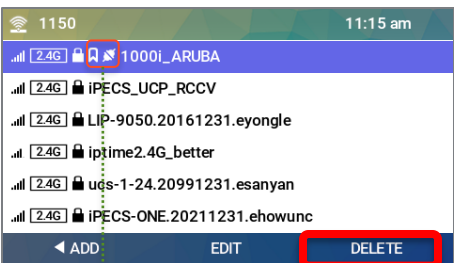
[LCD]

1. Press “DELETE”

On the connection information screen :

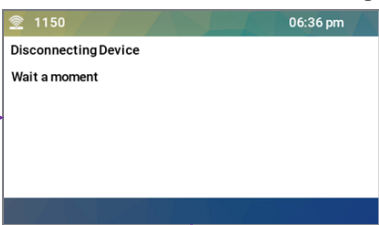


On the search results screen :

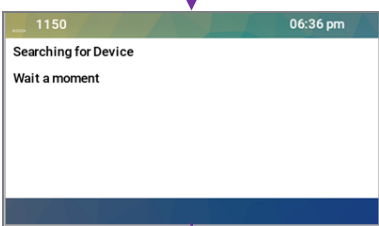


- ☞ All data of the deleted AP will be erased.
- ☞ If you perform 'DELETE' in the wireless connection state, the network is disconnected, so be careful.
- ☞ In order to operate as a wired network after deletion, you must reboot.

Disconnecting



Deleted

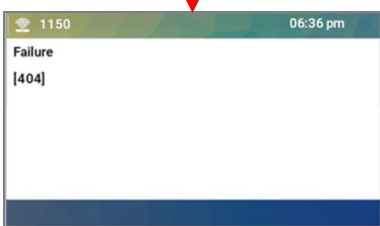


Searching AP...



After deletion, the Connected Icon (🔗) disappears.

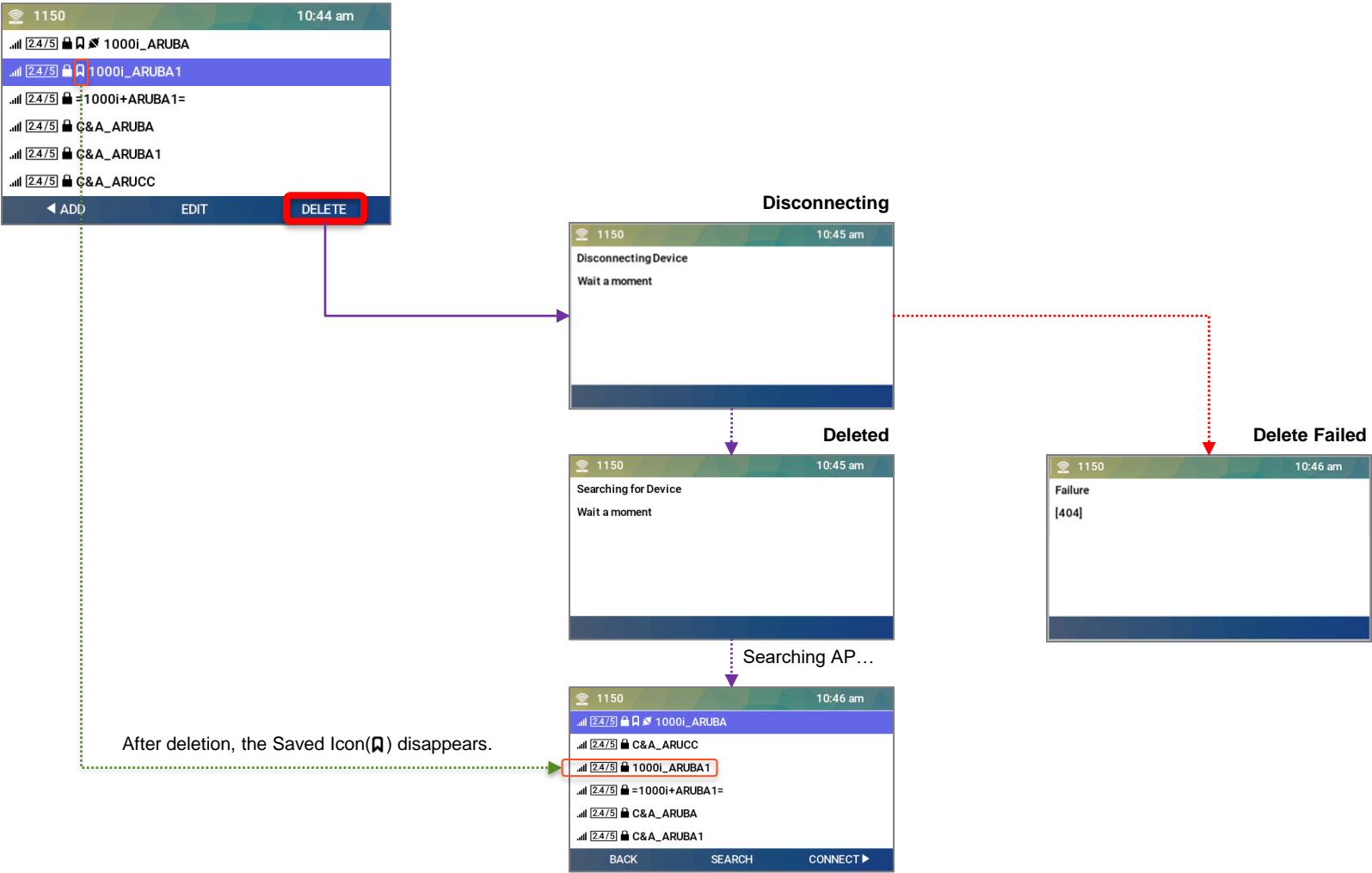
Delete Failed



Delete the saved AP

[LCD]

1. Move to the desired AP and press “DELETE”.

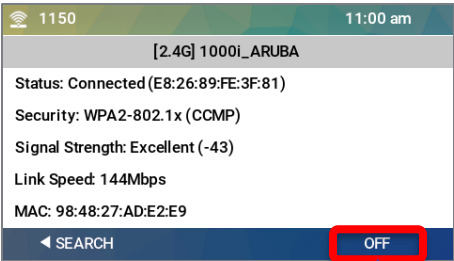


Turn-off Wi-Fi

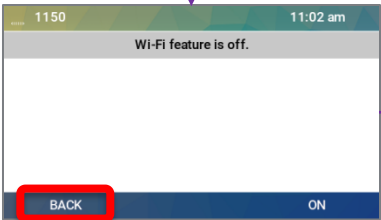
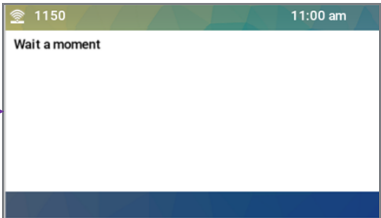
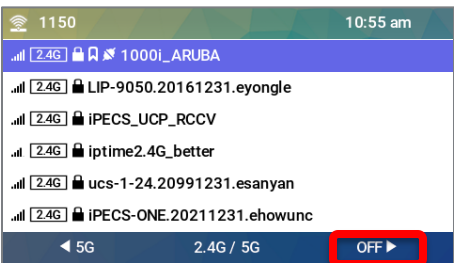
[LCD]

1. Press "OFF"

On the connection information screen :



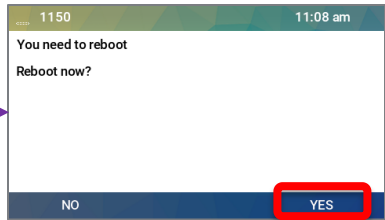
On the search results screen :



Since it operates by wired after rebooting, you can change the network settings from the previous menu by pressing "BACK" if necessary.

2. To exit the menu or to finish settings, press 'Speaker' button.

If you press the Speaker button in all menus, the following screen is displayed.



- 1) Press 'YES' :
The phone will reboot to apply the changes.
- 2) Press 'NO' :
The phone saves the changes, but exits the menu without applying.

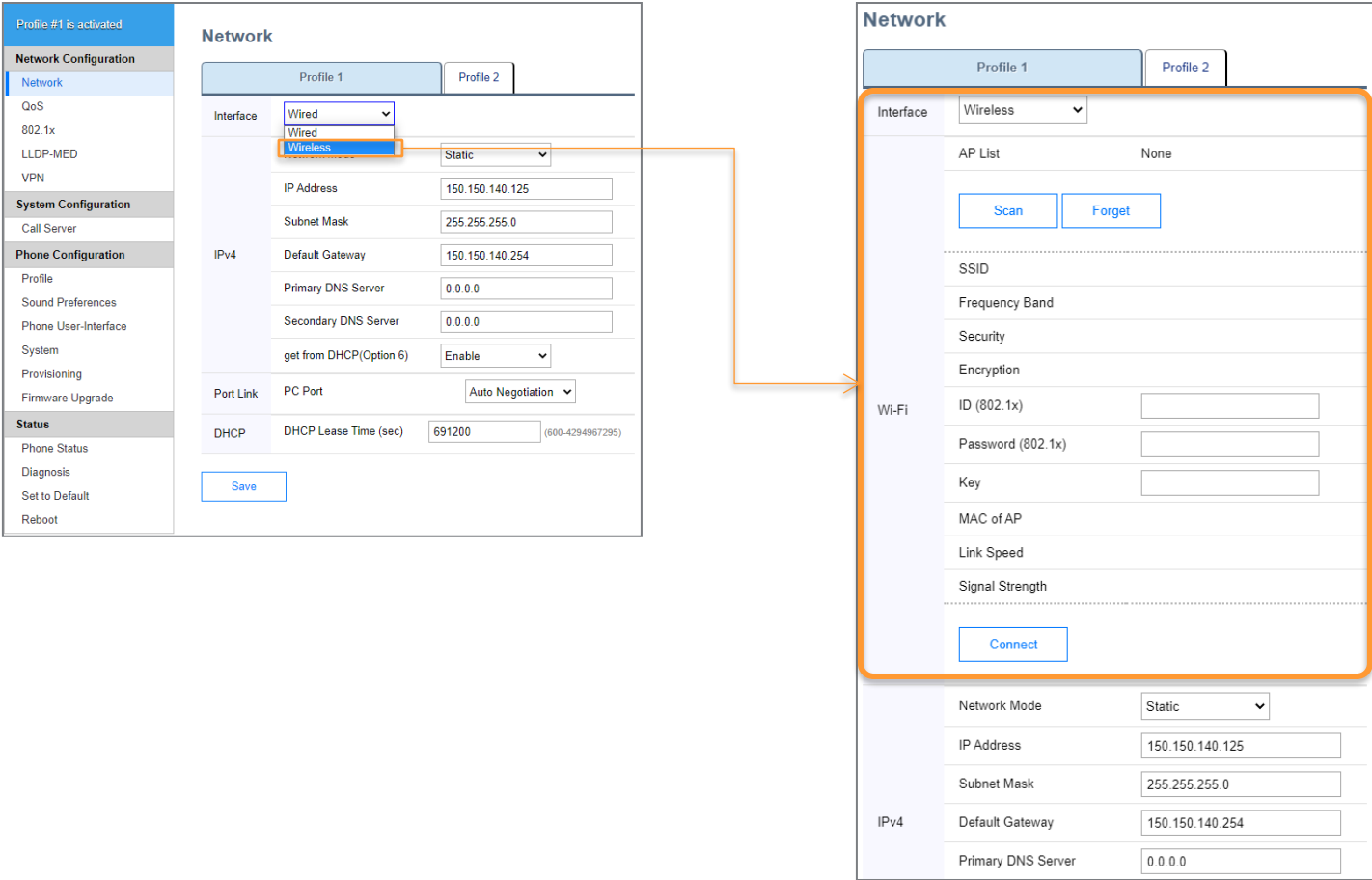
Even if the wired network is connected after wireless off, the wired does not work before rebooting.

Web menu

Turn-on Wi-Fi

[WEB]

To turn on the Wi-Fi, connect to the web manager and select “Wireless” as the Interface in the Network menu of the Network configuration. If you select “Wireless”, a menu for searching and setting wireless APs is displayed as shown below, and if you select “Wired”, this menu disappears.



Scan AP

[WEB]

Click "Scan" to search for connectable APs, and after completion, you can check the list in the AP List.

1. Click "Scan"

The screenshot shows the 'Profile 1' configuration page. The 'Interface' is set to 'Wireless'. The 'AP List' is currently 'None'. The 'Scan' button is highlighted with a red rectangle. Below the 'Scan' button, there are fields for SSID, Frequency Band, Security, Encryption, and Wi-Fi settings (ID, Password, Key, MAC of AP, Link Speed, Signal Strength). A 'Connect' button is at the bottom.

2. Search Complete Screen

The screenshot shows the 'Search Complete' screen. The 'AP List' now shows '1000i_ARUBA (2.4G) :saved'. The 'Scan' button is still present. The 'Wi-Fi' section shows the detected AP's details: SSID (1000i_ARUBA), Frequency Band (2.4GHz), Security (WPA2-802.1xEAP_PEAP), Encryption (CCMP), ID (802.1x), Password (802.1x), Key, MAC of AP (E8:26:89:FE:3F:81), Link Speed, and Signal Strength (Excellent (-36)).

3. Searched AP Lists

The screenshot shows the 'Searched AP Lists' screen. The 'AP List' dropdown is open, showing a list of detected APs. The 'Scan' button is still present. The 'Wi-Fi' section shows the detected AP's details: SSID (1000i_ARUBA (2.4G) :saved), Frequency Band (2.4GHz), Security (WPA2-802.1xEAP_PEAP), Encryption (CCMP), ID (802.1x), Password (802.1x), Key, MAC of AP (E8:26:89:FE:3F:81), Link Speed, and Signal Strength (Excellent (-36)).

Searching AP...

The screenshot shows the 'Searching AP...' screen. The 'AP List' dropdown is open, showing a list of detected APs. The 'Scan' button is still present. The 'Wi-Fi' section shows the detected AP's details: SSID (1000i_ARUBA (2.4G) :connected), Frequency Band (2.4GHz), Security (WPA2-802.1xEAP_PEAP), Encryption (CCMP), ID (802.1x), Password (802.1x), Key, MAC of AP (E8:26:89:FE:3F:81), Link Speed, and Signal Strength (Excellent (-36)).

The AP displayed in the list box is the status

1000i_ARUBA (2.4G) :connected	connected AP
1000i_ARUBA (5G) :saved	saved AP
1000i_ARUBA1 (5G)	new searched AP

Connect to AP

[WEB]

If you select the AP you want to connect to from the searched AP list, the authentication screen appears as shown below.

- Connecting to a saved AP

Profile 1		Profile 2	
Interface	Wireless		
AP List	1000i_ARUBA (2.4G) saved		
<div>Scan Forget</div>			
Wi-Fi	SSID	1000i_ARUBA	
	Frequency Band	2.4GHz	
	Security	WPA2-802.1xEAP_PEAP	
	Encryption	CCMP	
	ID (802.1x)	*****	
	Password (802.1x)	*****	
	Key	*****	
	MAC of AP	E8:26:89:FE:3F:81	
Link Speed			
Signal Strength	Excellent (-36)		
<div>Connect</div>			

- ☞ The stored AP information is applied, and if you click "Connect", the connection will proceed.
- ☞ If necessary, you can modify the previous information before clicking "Connect".
- ☞ For APs that are both (2.4G/5G using the same SSID), when one is connected, the other is added as "saved".

"1000i_ARUBA : Connection success"

Profile 1		Profile 2	
Interface	Wireless		
Connected AP	1000i_ARUBA (2.4G)		
<div>Scan Forget</div>			
Wi-Fi	SSID	1000i_ARUBA	
	Frequency Band	2.4GHz	
	Security	WPA2-802.1xEAP_PEAP	
	Encryption	CCMP	
	ID (802.1x)	*****	
	Password (802.1x)	*****	
	Key	*****	
	MAC of AP	E8:26:89:FE:3F:81	
Link Speed	144Mbps		
Signal Strength	Excellent (-40)		
<div>Connect</div>			

When the connection is complete, the input window and the Connect icon are deactivated.

- Connecting to a new AP

Profile 1		Profile 2	
Interface	Wireless		
AP List	1000i_ARUBA1 (2.4G)		
<div>Scan Forget</div>			
Wi-Fi	SSID	1000i_ARUBA1	
	Frequency Band	2.4GHz	
	Security	WPA2-PSK	
	Encryption	CCMP	
	ID (802.1x)	*****	
	Password (802.1x)	*****	
	Key	*****	
	MAC of AP	E8:26:89:FE:3F:80	
Link Speed			
Signal Strength	Excellent (-48)		
<div>Connect</div>			

- ☞ For newly discovered APs, enter the required information for authentication and click "Connect".
- ☞ Depending on the AP's authentication method, a window where you can enter ID/Password or KEY is activated.
- ☞ Authentication method
 - WPA-Enterprise : Use the ID and Password
 - WPA-Personal : Use KEY only.

After connecting AP, set up the network and exit

[WEB]

After connecting the AP, press “Save” after completing the network setup, and a reboot confirmation window will appear.

Profile 1

Profile 2

Interface

Wireless

Connected AP

1000I_ARUBA (2.4G)

Scan

Forget

Wi-Fi

SSID

1000I_ARUBA

Frequency Band

2.4GHz

Security

WPA2-802.1xEAP_PEAP

Encryption

CCMP

ID (802.1x)

Password (802.1x)

Key

MAC of AP

E8:26:89:FE:3F:81

Link Speed

144Mbps

Signal Strength

Poor (-82)

Connect

IPV4

Network Mode

Static

IP Address

10.10.10.10

Subnet Mask

255.255.255.0

Default Gateway

10.10.10.254

Primary DNS Server

0.0.0.0

Secondary DNS Server

0.0.0.0

get from DHCP(Option 6)

Enable

Port Link

PC Port

Auto Negotiation

DHCP

DHCP Lease Time (sec)

691200

(600-4294967295)

Save

For network setting, use the same setting value for wired and wireless.

Network Configuration has been changed.
You must **Reboot** the phone to apply modified value(s).
Restart now?

Reboot

Cancel

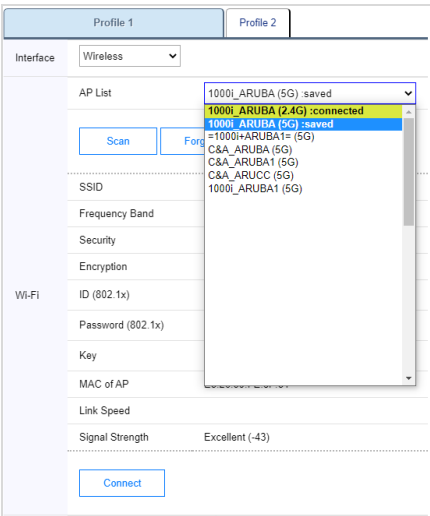
- You can set up your network and server before setting up the Wi-Fi. If the Network, Server or Wi-Fi settings are changed, you must reboot.
- Even if the Wi-Fi is turned on and connected to the wireless AP, the wired connection is maintained before rebooting.

Delete the saved AP

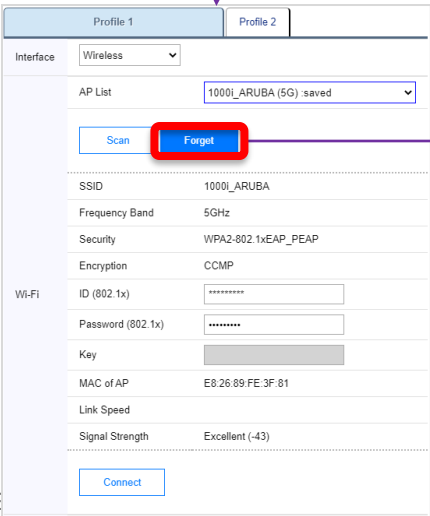
[WEB]

You can delete the “saved” AP by selecting it from the AP List.

1. Select the AP you want to delete from the AP list and click “Forget”.



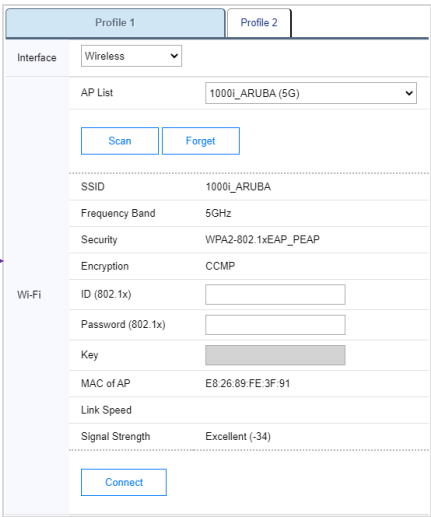
This screenshot shows the 'AP List' dropdown menu in the 'Profile 1' configuration page. The menu is open, displaying a list of available APs. The AP '1000i_ARUBA (2.4G) :connected' is highlighted in blue. Below the list, there are 'Scan' and 'Forget' buttons. The 'Forget' button is highlighted with a red rectangle. The 'Connect' button is at the bottom of the page.



This screenshot shows the 'Profile 1' configuration page after the 'Forget' button has been clicked. The 'AP List' dropdown menu is now closed, and the selected AP '1000i_ARUBA (5G) :saved' is shown. The 'Forget' button is highlighted with a red rectangle. The 'Connect' button is at the bottom of the page.

“Forgetting success – 1000i_ARUBA”

2. When the deletion is complete, the result is displayed as shown below. After deletion, the re-searched results are shown in the list.



This screenshot shows the 'Profile 1' configuration page after the AP has been deleted. The 'AP List' dropdown menu is now closed, and the selected AP is '1000i_ARUBA (5G)'. The 'Scan' and 'Forget' buttons are visible. The 'Connect' button is at the bottom of the page.

Searching AP...

- ☞ If you access the Web in a wireless connection and the currently connected AP is deleted, the Web connection will be disconnected, so be careful.
- ☞ If it has been deleted, you must proceed with the Wi-Fi setting in the LCD menu.

