Fanvil

Version Number：2.14.4

Applicable Model：W611W/W610W

Date：2025.9.18

Fanvil Link Technology Co., Ltd .

Content

1 Revision History

No.	Version	Release Date	Remarks
1	2.14.2.19	2024.8.9	
2	2.14.2.22	2024.9.16	
3	2.14.2.25	2024.12.18	
4	2.14.2.28	2025.1.22	
5	2.14.4	2025.9.18	

2   Release 2.14.4

Model	Software Version Number	Remarks
W611W & W610W	2.14.4	

2.1   New Features

1. Add the feature of 802.1x EAP-TLS wireless authentication type and enable the roaming function under the 802.1x authentication mode.

2. Add the feature of batch provisioning certificates and ringtone files: support packaging certificates, ringtones, and other files into an etc.tar.gz file for batch provisioning and upgrade.

3. Add the feature of importing Wi-Fi configuration files and PFX certificates via U Disk.

4. Add the feature of OpenVPN mutual authentication.

5. Add the feature of LDAP phonebook search on dialing interface.

6. Add the feature that allows configuring call logs to dispaly phone numbers only.

7. Add the feature of customizing the default protocol header for DHCP Option provision method.

8. Add Persian language.

2.2   Optimizations

1. Optimize the transfer dialing interface by default-enabling Softkey-DSS

Fanvil Link Technology Co., Ltd .
Add: 13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, China
Tel +86-755-2640-2199   Email: sales@fanvil.com   www.fanvil.com

Key for operational efficiency.

2. Optimize the translation quality and UI display effects.

3. Optimize the loading speed of HTTPS web access.

4. Optimize the channel switching mechanism during headset calls, which supports switching between handset and headset channels via the headset key.

5. Optimize Auto Provision function to support repeated update requests for the same configuration files.

6. Optimize the charging status display to prevent the device from showing "Charging" when reconnected immediately after being fully charged.

2.3 Bug Fix

1. Fix the issue of occasional network disconnection of the device in specific environments and optimize the network reconnection mechanism.

2. Fix the issue of occasional SIP registration failure in specific environments.

3. Fix the issue of frequent device roaming in weak network environments and optimize the Wi-Fi roaming mechanism.

4. Fix the issue where the device cannot be woken up when receiving an IP call with an unregistered SIP account.

5. Fix the issue of unsynchronized display of Wi-Fi security types between the web interface and LCD.

6. Fix the issue of device abnormalities caused by excessively long shared Wi-Fi passwords.

7. Fix the issue of occasional one-way audio in calls under specific environments, where the other party cannot hear the voice from the wireless phone end.

8. Fix the issue of sound distortion when the volume is adjusted to the maximum during hands-free calls.

9. Fix the issue where rtpevent messages are not sent when DTMF keys are pressed when the DTMF type is set to In-band+RFC2833.

10. Fix the issue that upgrading W611W devices from versions lower than 2.14.2.23 to 2.14.2.28.1 may result in known WiFi configuration loss, requiring manual reconnection.

2.4   New Feature Description

1.   Add the feature of 802.1x EAP-TLS wireless authentication type and enable the roaming function under the 802.1x authentication mode.

Function Description: Support connection to wireless networks with security modes including 802.1x PEAP-MSCHAPv2, FT-PSK, 802.1x EAP-TLS, and 802.1x EAP-TTLS.

Setting Method:

On the web interface, go to Network >> Wi-Fi Settings >> Add Wi-Fi Information. The available security modes include None, WPA/WPA2-PSK, 802.1x PEAP-MSCHAPv2, FT-PSK, 802.1x EAP-TLS, and 802.1x EAP-TTLS.
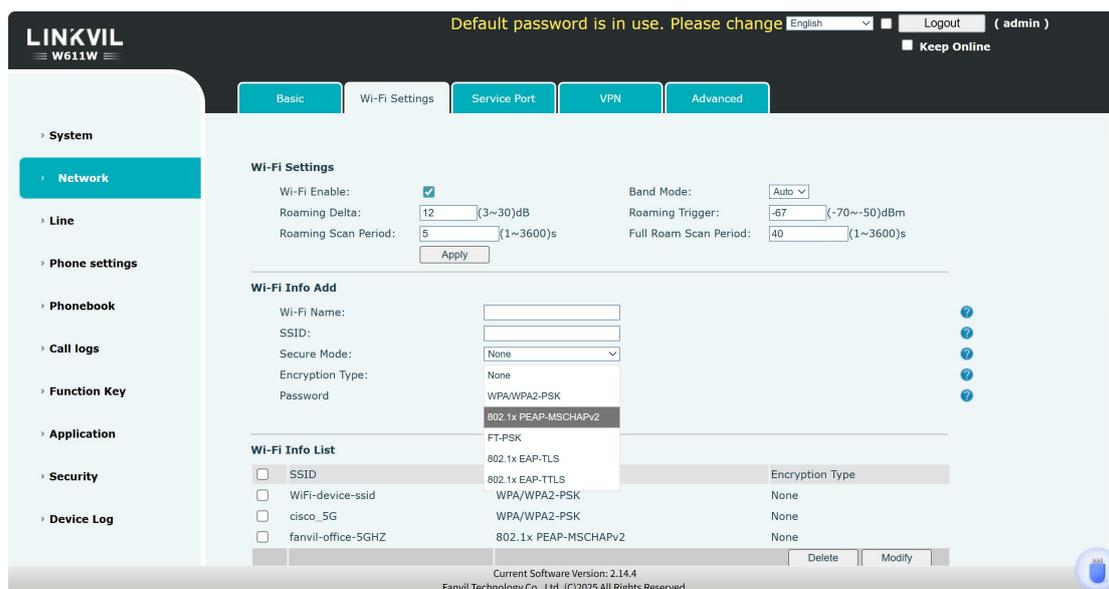
- For 802.1x PEAP-MSCHAPv2 mode, the following authentication methods are supported:

  ➢ Username + Password;

  ➢ Username + Password + CA Certificate.

- For 802.1x EAP-TLS mode, the following authentication methods are supported:

  ➢ Username + Private Key Password + Device Certificate + Private Key;

  ➢ Username + Private Key Password + CA Certificate + Device Certificate + Private Key.

Fanvil Link Technology Co., Ltd .
Add: 13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, China
Tel +86-755-2640-2199   Email: sales@fanvil.com   www.fanvil.com

- For 802.1x EAP-TTLS mode, the following authentication methods are supported:

  ➢ Username + Password;

  ➢ Username + Password + CA Certificate.

2. Add the feature of batch provisioning certificates and ringtone files: support packaging certificates, ringtones, and other files into an etc.tar.gz file for batch provisioning and upgrade.

Function Description: Files such as certificates and ringtones can be organized into a specified directory and packaged into an etc.tar.gz file to realize batch provision and upgrade of certificate and ringtone files.

Setting Method:

● File Packaging Method: According to the directory structure below, place the corresponding certificate and ringtone files in folders with specific names, and package them into an etc.tar.gz file:

```
etc
├──deviceCert        \\ The directory of Device Certificate files
├──trustCert         \\ The directory of Trusted Certificate files
├──httpsCert         \\ The directory of HTTPS Certificate files
├──ring              \\ The directory of Ringtone files
├──vpnCert           \\ The directory of VPN Certificate files
└──dot1xCert         \\ The directory of 802.1x Certificate files
    │   user1.pfx    \\ Place the PFX certificate file in the root directory of dot1xCert
    │
    ├──caCert        \\ The directory of CA Certificate for 802.1x Authentication
    ├──deviceCert    \\ The directory of Device Certificate for 802.1x Authentication
    └──keyCert       \\ The directory of Key file for 802.1x Authentication
```

● Provision configuration item parameters

➢ nc.txt format:

```
ap.AutoEtcUrl = http://user:pass@IP:Port/etc.tar.gz
```

➢ TXT format:

```
<<VOIP CONFIG FILE>>
<AUTOUPDATE CONFIG MODULE>
Auto Etc Url          :http://user:pass@IP:Port/etc.tar.gz
<<END OF FILE>>
```

➢ XML format

```
<?xml version="1.0" encoding="UTF-8"?>
 <sysConf>
     <ap>
         <AutoEtcUrl>http://user:pass@IP:Port/etc.tar.gz</AutoEtcUrl>
     </ap>
</sysConf>
```

or

```
<?xml version="1.0" encoding="UTF-8"?>
```

Fanvil Link Technology Co., Ltd .
Add: 13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, China
Tel +86-755-2640-2199   Email: sales@fanvil.com   www.fanvil.com

```
<VOIP_CONFIG_FILE>
<AUTOUPDATE_CONFIG_MODULE>
<Auto_Etc_Url>http://user:pass@IP:Port/etc.tar.gz</Auto_Etc_Url>
</AUTOUPDATE_CONFIG_MODULE>
</VOIP_CONFIG_FILE>
```

Provision Methods: Support provision methods such as DHCP OPTION, static provision, and SIP PnP, as well as protocols including TFTP, FTP, HTTP, and HTTPS. For specific provision steps and methods, please refer to the Auto Provision documentation on https://fanvil.com/.

3. Add the function of importing Wi-Fi configuration files and PFX certificates via a U Disk.

Function Description: Wi-Fi-related configurations and PFX certificates can be imported via a U Disk.

Setup Method:

- File Packaging: Package the Wi-Fi configuration file (config.txt), PFX certificate, and key password file (pwd.txt) into a file named WiFiAutoConfig.zip:

  ➢ config.txt: Wi-Fi configuration file, with a fixed name "config.txt". The content format is:

```
<<VOIP CONFIG FILE>>Version:2.0000000000
<NET CONFIG MODULE>
--WIFI List--          :
Item1 WIFI Name             :
Item1 WIFI SSID            :WiFi
Item1 Secure Mode          :1
Item1 WIFI Encryption      :1
Item1 WIFI User Name        :
Item1 WIFI Password         :WiFi20250666
<<END OF FILE>>
```

Fanvil Link Technology Co., Ltd .
Add: 13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, China
Tel +86-755-2640-2199   Email: sales@fanvil.com   www.fanvil.com

> ➤ PFX Certificates: Support PFX certificates in .pfx and .p12 formats.

> ➤ pwd.txt: The file name is fixed as "pwd.txt", and the private key password is stored in this file.

● Operation: Place WiFiAutoConfig.zip in the root directory of the U Disk. Access the handset >> Menu >> Application>>U-Disk Debug, insert a Type-C U Disk into the handset, click "U-Disk WiFi Config Update", and when prompted with "Update WiFi Config Now?", select "OK".
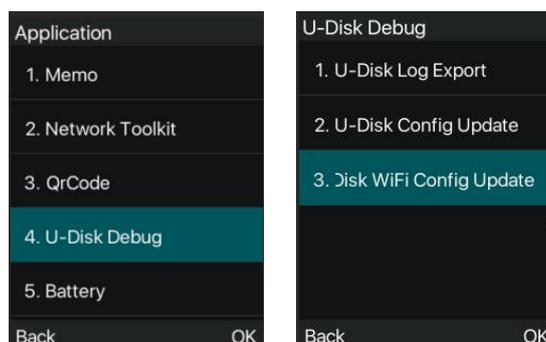
Note: Configuration cannot be updated via U Disk when the battery level is below 15%.

4. **Add support for the OpenVPN mutual authentication function.**

Function Description: Support two-factor authentication for OpenVPN.

Setting Method: Access the handset's web interface, go to Network >> VPN >> OpenVPN Setting, enable "Enable User Auth", enter the authentication username and authentication password, and select to upload

the OpenVPN certificate file.
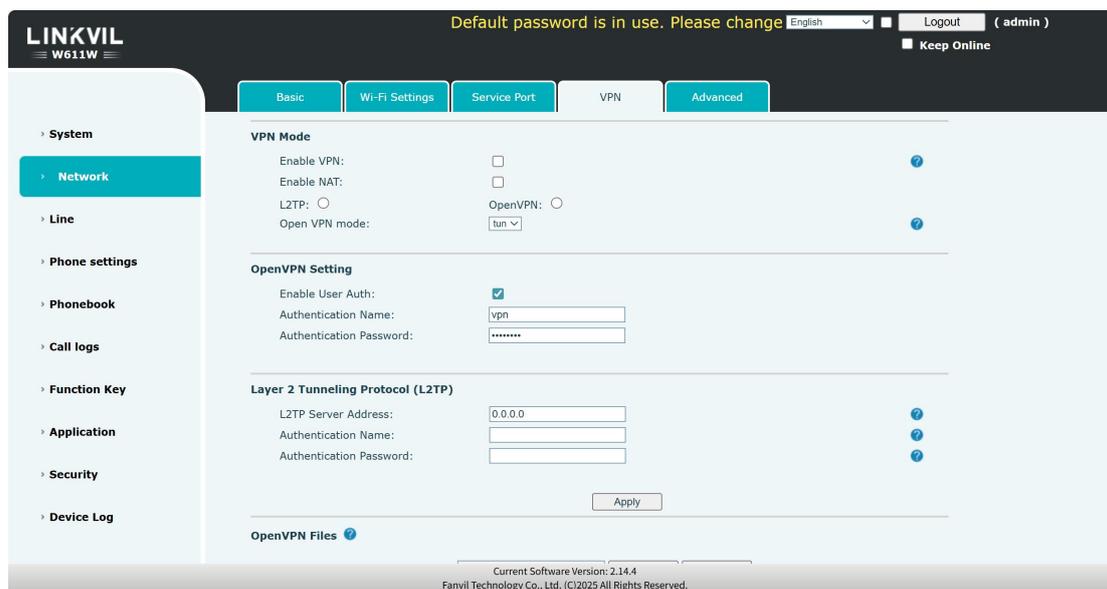
5. Add the feature that allows configuring call logs to display phone numbers only.

Function Description: The call logs can be set to prioritize displaying names or only show numbers by modifying the configuration file.

Setup Method: Modify through the following configuration items:

```
    <<VOIP CONFIG FILE>>Version:2.0000000000
    <PHONE FEATURE MODULE>
    CallLog DisplayType:1 // 0 -- Prioritize displaying the name in call logs; display the
number if no name is available.1 -- Only display the number in call logs.
    <<END OF FILE>>
```

6. Add the feature of customizing the default protocol header for DHCP Option provision method.

Function Description: Support customizing the default protocol used in DHCP OPTION provision. After configuration, when deploying via DHCP OPTION: if the URL is not configured with a protocol header, the set default

Fanvil Link Technology Co., Ltd .
Add: 13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, China
Tel +86-755-2640-2199   Email: sales@fanvil.com   www.fanvil.com

protocol will be used for provision; if the URL is configured with a protocol

header, the configured protocol will be used for provision.

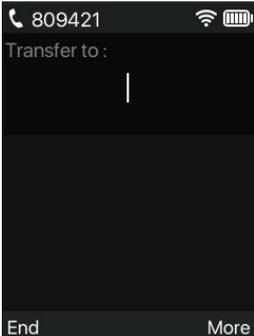**Setting Method:** The default protocol for DHCP OPTION provision can be set
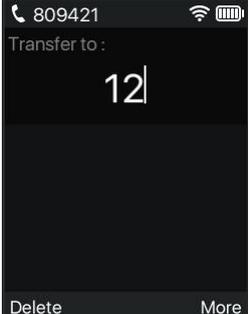
by modifying the configuration file:

```
<<VOIP CONFIG FILE>>Version:2.0000000000
<AUTOUPDATE CONFIG MODULE>
DHCP Protocol Type : 2 //1--FTP; 2--TFTP（Default Value）; 4--HTTP; 5--HTTPS
<<END OF FILE>>
```

2.5   Improved Feature Descriptions

1. Optimize the transfer dialing interface by default-enabling Softkey-DSS Key for operational efficiency.

Function Description: Optimize the default Softkey on the transfer dialing

interface by adding Dsskey buttons to improve interaction efficiency.

UI Interface	UI	Default Softkey
transfer dialing interface	809421 Transfer to : End More	● End; ● More>>Dial;Xfer;Dsskey page1;Dsskey page2

Fanvil Link Technology Co., Ltd .
Add: 13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, China
Tel +86-755-2640-2199   Email: sales@fanvil.com   www.fanvil.com

transfer dialing interface - Enter Number	📞 809421 📶 🔋 Transfer to : 12| Delete More	● Delete; ● More>>Dial;Xfer;Dsskey page1;Dsskey page2

2. Optimize Auto Provision function to support repeated update requests for the same configuration files.

Function Description: When obtaining configuration files via Auto Provision, it supports configuring whether to download and update when the configuration file is the same through settings.

Setting Method: You can set whether to update the same Auto Provision configuration file by modifying the configuration file:

```
<<VOIP CONFIG FILE>>Version:2.0000000000
<AUTOUPDATE CONFIG MODULE>
Config Sync Mode :0     // 0 -- Update only when the configuration file changes; 1 --
Always update the configuration
<<END OF FILE>>
```

3　　Release 2.14.2.28

Models	Software Version	Comment
W611W	2.14.2.28	Starting from version 2.14.2.2, it is compatible with hardware V2.0.

3.1　New Features

1. Support parameter to control whether to use a shutdown captcha;

2. Display the corresponding line in the LCD call log;

3. Display battery level, temperature, and health information on the LCD

3.2　Optimizations

1. Optimize the Turkish and Russian input methods;

2. When enabling Bluetooth, directly display the device's Bluetooth information;

3. Optimize the sleep-wake mechanism;

4. Optimize German translations;

5. Optimize the status interface display to make it easier for users to find the software version information

3.3　Bug Fix

1. Fix the issue where contacts cannot be matched when searching with the Chinese input method;

2. Fix the issue where there is a probability of the device freezing when turning off Bluetooth;

3. Fix the issue where contact groups cannot be sorted by name on the website;

4. Fix the issue where the device cannot be shut down under special circumstances

3.4 New Feature Description

1. Support parameter to control whether to use a shutdown captcha;

Feature Description: The default value of the Shutdown Captcha parameter is 0, which means no verification is required during shutdown. Modify the value of Shutdown Captcha to 1, import the configuration, and a captcha will be required during shutdown.

**2. Display the corresponding line in the LCD call log;**

Feature Description: Display the used call line in the call log: L1/L2/L3/L4/IP.

3. Display battery level, temperature, and health information on the LCD

Feature Description: Add display of detailed battery information, including battery health status: 1. Good; 2. Overheated; 3. Cold; 4. Unspecified failure ; 5. Battery not detected.

Usage Instructions: Enter [Menu] > [Applications] > [Battery] to learn about battery capacity, battery temperature, and battery health.
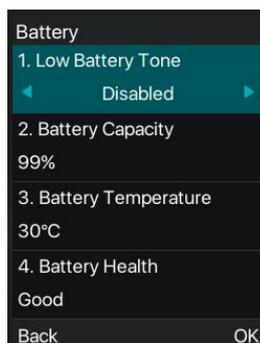
4   Release 2.14.2.25

Models	Software Version	Comment
W611W	2.14.2.25	Starting from version 2.14.2.2, it is compatible with hardware V2.0.

4.1   New Features

1. Add U-Disk debug mode;
2. Support device reboot after long pressing the red handle button

4.2   Optimizations

1. On the Dsskey interface, after pressing the handset/speakerphone button, the selected number can be dialed directly;
2. Optimize Wi-Fi roaming performance;
3. Optimize the wake-up mechanism;
4. Optimize the speed at which the device retrieves FDMS-assigned account information;
5. Optimize the display of the Wi-Fi list.

4.3   Bug Fix

1. Fix the issue where the LCD cannot access the search-type LDAP phone book;
2. Fix the issue where the static provision scheduled upgrade does not take effect;
3. Fix the issue with the open Wi-Fi icon display;
4. Fix the issue of unstable SIP registration after using an open VPN;
5. Fix the issue where incoming calls cannot wake up the device in IPV6

mode;

6. Fix the issue with the Wi-Fi sharing function being abnormal when there are spaces in the SSID;

7. Fix the issue of the Wi-Fi list displaying two identical Wi-Fi networks;

8. Fix the issue where the device does not automatically reconnect to the network after returning from out of range.

4.4 New Feature Description

1. Add U-Disk debug mode;

Feature Description: Go to [Menu]>[Application]>[U-Disk Debug], the user needs to insert a USB drive containing a valid configuration file into the device within seven seconds (or before entering USB debug mode). Select "U-Disk Config Update" and confirm to update the configuration file:
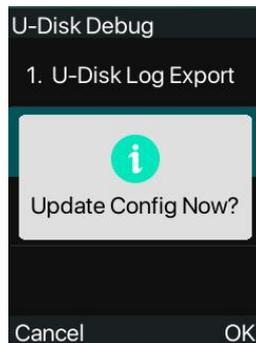

Select "U-Disk Wi-Fi Config Update" and confirm to update the known Wi-Fi networks for quick connectivity:

2. Support device reboot after long pressing the red handle button

Feature Description:1) Press and hold the red button for three seconds to

Fanvil Link Technology Co., Ltd .
Add: 13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, China
Tel +86-755-2640-2199   Email: sales@fanvil.com   www.fanvil.com

display a three-digit shutdown verification code. Enter it correctly to shut down the device. If the entry is incorrect three times, you will need to wait for 30 seconds before retrying.
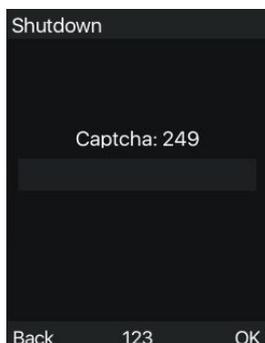
2) Press and hold the red button for twelve seconds to restart the device.

5　Release 2.14.2.22

Models	Software Version	Comment
W611W	2.14.2.22	Starting from version 2.14.2.2, it is compatible with hardware V2.0.

5.1　Optimizations

1. Optimized the speed of obtaining account information from the FDMS;

2. Improved standby time duration.

5.2　Bug Fix

1. Fixed the issue where the device occasionally failed to wake up on incoming calls in IPV6 mode;

2. Fixed the issue where the LCD could not access the LDAP phone book;

3. Fixed the issue where sharing Wi-Fi failed when the SSID contained spaces.

Fanvil Link Technology Co., Ltd .
Add: 13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, China
Tel +86-755-2640-2199　　　　Email: sales@fanvil.com　　　www.fanvil.com

6   Release 2.14.2.19

Models	Software Version	Comment
W611W	2.14.2.19	Starting from version 2.14.2.2, it is compatible with hardware V2.0.

6.1   New Features

1. Add Chinese input method;

2. Add new Dsskey Pages option in the transfer interface;

3. Add factory reset captcha in standby mode;

4. Support for upgrading wallpapers in multiple formats;

5. Support for sharing EAP-PEAP type Wi-Fi;

6. Support for fuzzy case query in Russian;

7. Prioritization of Russian input method when Russian is set;

8. Support for PTT key synchronization with multicast listening settings;

9. Support for roaming trigger and roaming scanning period settings.

6.2   Optimizations

1. Optimize UI display when returning to the standby interface from the secondary menu with one click on the red hang-up button;

2. Improve multilingual translation;

3. Improve prompts on the standby interface when there is no network or no registered account;

4. Enhance the security of logs;

5. Improve prompt information for the phone web page;

6. Improve Wi-Fi reconnection speed after booting;

7. Optimize Wi-Fi band scanning processing.

Fanvil Link Technology Co., Ltd .
Add: 13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, China
Tel +86-755-2640-2199   Email: sales@fanvil.com   www.fanvil.com

6.3　Bug Fix

1. Fix the issue of abnormal LCD language display when the language configuration is empty;

2. Fix the issue of occasional white screen;

3. Fix the issue of not being able to scan Wi-Fi under certain conditions.

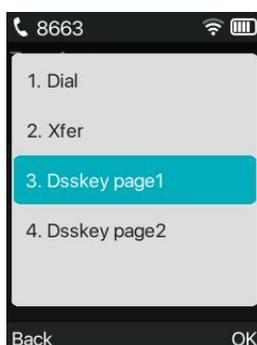## 6.4　New Feature Description

1. Add Chinese Input Method;

Feature Description: When the LCD language is set to Simplified Chinese or Traditional Chinese, the device supports Chinese input methods.
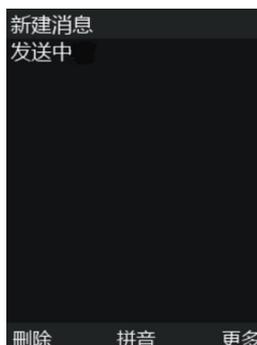
2. New Dsskey Page Option in Transfer Interface;

Feature Description: To facilitate users to quickly enter contact numbers during transfers, two options "Dsskey Page 1" and "Dsskey Page 2" are added by default in the transfer interface.

3. **Add Factory Reset Captcha in Standby Mode;**

Feature Description: To prevent accidental activation, after pressing the OK

Fanvil Link Technology Co., Ltd .
Add: 13th Floor, Building 2, Runzhi R&D Center, Xin'an Street, Bao'an District, Shenzhen, China
Tel +86-755-2640-2199　　　　Email: sales@fanvil.com　　　www.fanvil.com

key for seven seconds in standby mode, a "Factory Reset Captcha" will be displayed. Users can restore the device to factory settings by correctly entering the three-digit number shown on the screen.


4. Support for Upgrading Wallpapers in Multiple Formats;

Feature Description: Supports upgrading wallpapers in various formats through the web page, including JPG, PNG, and BMP.

5. Support for Sharing EAP-PEAP Type Wi-Fi;

Feature Description: Users can select "802.1x EAP" when setting up shared Wi-Fi information. After setting the correct network name, username, and password, the device can share EAP-PEAP type Wi-Fi.
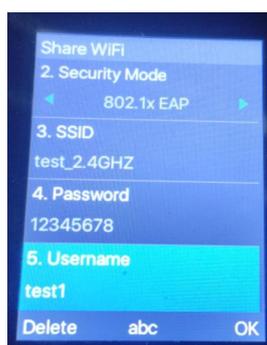
6. Support for Fuzzy Case Query in Russian;

Feature Description: When the device's LCD language is set to Russian, it supports fuzzy case query when searching for contacts.

7. Priority Display of Russian Input Method in Russian Language

Setting;

Feature Description: When the device's LCD language is set to Russian, the Russian character input method is displayed by priority.

8. Support for PTT Key Synchronization with Multicast Listening Channel Settings;

Feature Description: An additional configuration "Phone Settings" > "Multicast" > "PTT Multicast Standby Synchronization" has been added.

Once this configuration is enabled, the current multicast listening configuration will be synchronized to the PTT key settings.

When there is no multicast listening setting on the web page, the left and right keys on the standby interface maintain the original dsskey function configured. When there is one MCAST listening settings, it will be synchronized to the PTT configuration and displayed on the standby interface. By pressing the PTT key, the multicast of the corresponding channel can be initiated. When there are multiple listening settings, the channel for initiating the multicast can be selected by pressing the left and right keys.

9. **Support for Roaming Trigger and Roaming Scan Period;**

Feature Description: Add configuration items "Network" > "Wi-Fi Settings" > "Roaming Trigger", "Roaming Scan Period" and "Full Roam Scan Period" with the functions as described in the table.

Parameter	Description
Roaming Trigger	The device begins roaming scanning when the signal strength reaches this value.
Roaming Scan Period	The period for scanning available APs on the current channel during roaming.
Full Roam Scan Period	The period for scanning available APs using

Parameter	Description
	all channels during roaming.

7   Release 2.14.0.23

Models	Software Version	Comment
W611W	2.14.0.23	

7.1   New Features

1. Add the function of sharing WiFi;

2. Add A.I Noise Reduction Technology and Acoustic Enclosure;

3. Add Arabic language displaying;

4. Add a configuration item for low battery tone.

7.2   Optimizations

1. The device can be woken up by Push XML message when sleeping;

2. Block the function of pressing and holding the OK button when idle to factory reset, in order to avoid misoperation;

3. The left and right navigation keys of the dialing status can be used to switch between lines;

4. Optimize the stability of hotspot connection during hibernation.

7.3   Bug Fix

1. Fix the problem of missing configuration in specific cases;

2. Fix the problem that the phone frequently sends registration messages;

3. Fix the problem that the phone could not receive incoming calls occasionally during hibernation;

4. Fix the problem of garbled characters when LCD displays Japanese;

5. Fix the one-way audio issue during the call under a specific server.

7.4 New Feature Description

1. **Add the function of sharing WiFi**;

Description: 1) The device has a built-in WiFi with a fixed SSID and password, and when there is an AP with the same configuration in the environment, the phone can automatically connect to this AP after powering on to obtain a WiFi IP.
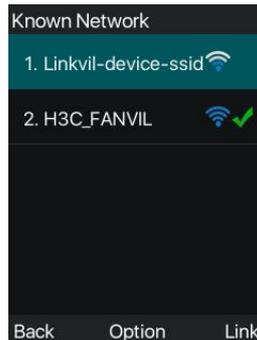

2) After the user connects to an AP, the user can enter [Menu] > [Advanced Settings] > [Share WiFi] on the device, turn on the WiFi sharing function, fill in the SSID, security mode, and password of the AP, and other devices that do not have any known network except the fixed SSID can automatically obtain this WiFi to realize the WiFi sharing function.


2. **Add A.I Noise Reduction Technology and Acoustic Enclosure;**

Description: Users can enable the **A.I Noise Reduction Technology** or **Acoustic Enclosure** from the device's web page> [Phone Settings]> [Media Settings] > [Noise Reduction].
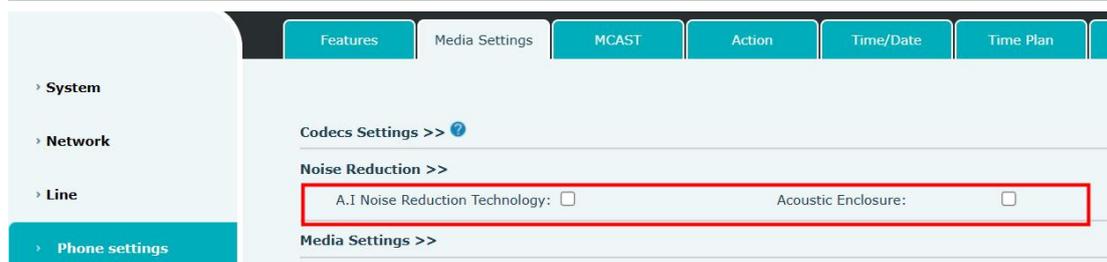
3. Add Arabic language displaying;

Description: Users can import the configuration "Default Language:ar" through the web page, or select Arabic through the LCD > [Menu]> [Settings] > [Language] to change the language displayed on the device screen to Arabic.
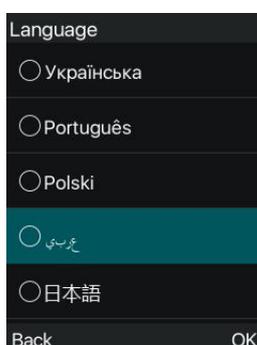
4. Add a configuration item for low battery tone.

Description: User can set whether to turn on the low battery tone through the [Phone Settings] > [Features] > [Tone Settings] on the web page, or turn on the low battery tone by importing the configuration "Low Battery Tone:1".

When the low battery tone is turned off, only the indicator light and pop-up prompt will be shown when the battery is low. When the low battery tone is turned on and the battery is low, the indicator light and pop-up prompt will be displayed and the phone will play the low battery tone.