(Last update on November 2023)

Tested Mobile Device List for Construction Workers Registration System (CWRS)

To facilitate contractors to select mobile devices being compatible with the CWRS, the CIC has tested a number of Android mobile devices that can read the Construction Workers Registration Card and function well with the installation of the DAR App. The basic requirements for the Android mobile device are as follows:

1. Android operating system must be 4.4.2 or above

2. NFC, WiFi & GPS available and enabled

3. NXP chipset (controller)

Tested Mobile Phone:

Android OS version	Brand	Model
12	Vivo	V25
	Redmi	10
	Motorola	G82
	Huawei	Nova 9
	Samsung	A33
	Oppo	A77
	Xiaomi	12 Lite
	Sony	Xperia 10 IV
11	Oppo	A72
	SamSung	A32
10.X	Nokia	5.3
	Oppo	Find X2 Pro
		Reno4 Pro

Android OS version	Brand	Model
	Sony	Xperia 10 II
	Vivo	X50e
		Y50
	Xiaomi	Redmi Note 9T
9.X	Huawei	Nova 5T
	Nokia	4.2
		8.1
	Oppo	A9 2020
	Sony	Xperia 10
		Xperia 10 Plus
	Vivo	Y19
8.X	Asus	Zenfone 5
	Huawei	Honor 10
		Y7 Prime 2018
	LG	Q Stylus +
	Nokia	8
	Sony	Xperia XA2
	Vivo	Y95
7.X	CAT	S41
	HTC	UPlay
	LG	G5
		K10 Power
		K10 2017
		Stylus 2 Plus
		Stylus 3
	Motorola	Moto G5 Plus
	Sony	Xperia XA1
6.X	HTC	Desire 530
	LG	Power X

Android OS version	Brand	Model
	SamSung	Galaxy C5
		Galaxy Note 5
	Sony	Xperia XA
	Xiaomi	Mi5
5.X	HTC	OneE8
		OneME
	Lenovo	Vibe P1
	LG	G3
		G3 Beat
		G4 Stylus
		GPro2
	Meizu	Pro 5
	SamSung	Galaxy A8
		Galaxy J5 2016
	Sony	Xperia C3
		Xperia M4 Aqua
		Xperia Z5 Premium
4.X	Huawei	Hone 6 Plus
	InFocus	M810t
	SamSung	Galaxy GrandPrime
	Solution Expert	C530
	Sony	Xperia SP

Tested Mobile Device:

	Company Name	Device Model	Features	Website	Contact
1.	Star-on System	SP-3	(a) Android OS Version 5X (b) Waterproof and dustproof IP54 (c) Micro USB (d) RS-232 connectivity (e) Wiegand protocol (f) WIFI / 4G (g) Mounting Kit available (h) Must use in conjunction with biometric solution which can return signal for entrance gate opening	https://starind.com.hk/web/Star_Industries/shou_ye.html	23761414
2.	Solution Expert Technology Limited	C530	(a) Android OS Version 4X (b) Waterproof and dustproof IP54 (c) Micro USB (d) RS-232 connectivity (e) Wiegand protocol (f) WIFI / 4G	https://www.sebiotec.com.hk/	2851 4567

	Company Name	Device Model	Features	Website	Contact
			(g) Mounting Kit available		
			(h) Standalone use of the mobile device can return signal for entrance gate opening		
3.	Solution Expert Technology Limited	C530 V2.0	(a) Android OS Version 4X (b) Resolution 1024*600 (c) 7 inch screen (d) RS-232 connectivity (e) Wiegand protocol (f) WIFI / 4G + GPS (g) Mounting Kit available (h) Standalone use of the mobile device can return signal for entrance gate opening	https://www.sebiotec.com.hk/	2851 4567
4.	Strobus (Far East) Ltd	Nilamtec B1	(a) Android OS Version 9X (b) Waterproof and dustproof IP68 (c) USB-C (d) Support optional RS-232 connectivity with RS232 D-sub connector (e) Support optional Wiegand protocol, optional	https://www.strobus.com.hk/	26903773

	Company Name	Device Model	Features	Website	Contact
			Wiegand converter is required		
			(f) WIFI / 4G		
			(g) Mounting Kit can be customised		
			(h) Standalone use of the mobile device can return signal for entrance gate opening, optional connection cable is required		
5.	Synergos Systems Company Limited	CIC-M729	(a) Android OS Version 7X	https://www.synergos.hk/	31762121
			(b) Waterproof and dustproof IP54		
			(c) Micro USB		
			(d) RS-232 connectivity		
			(e) Wiegand protocol		
			(f) WIFI / 4G		
			(g) Mounting Kit available (Version 03)		
			(h) Standalone use of the card reading device can return signal for entrance gate opening		
			(i) Temperature check (Version 04)		
			(j) Buy or rent		

Notes:

1. For security reasons, the Construction Workers Registration System (CWRS) including the Construction Workers Registration Gateway (CWRG) and the CIC DAR App will only allow access from Hong Kong IP addresses. If you encounter any issues while trying to access the CWRS, please contact the CWRS Helpdesk at 2100 9863.

2. The NFC contact point varies with different mobile device models. Many mobile devices have their NFC contact points at the back. If the CWR cards cannot be detected or read properly, please try placing it at a varied distance from your mobile device. If the problem persists, please refer to the respective mobile device manufacturer's website or user manual for the detailed NFC function and location of the NFC antenna area.

3. New Android OS (or Operating System) may release from time to time. The CIC would test the compatibility of a new, major Android OS with the CIC DAR App 6 months after its official release and with considerable number of mobile devices already operating on the new OS.

4. The above list is not exhaustive. If a mobile device model is not on the list, users are advised to perform feasibility test on the device before deployment for use. Users may consult CIC by emailing the device technical specification to CWRS helpdesk (email: cwrs_helpdesk@cic.hk).

5. Samsung Galaxy A20 – can support with firmware version A205GNDXU1ASCE (release date: Mar 2019) or older. However, A20 with firmware version A205GNDXU2ASG2 (release date: Jul 2019) or newer cannot read new CWR card.

6. Nokia 7.2 – can support with Android OS version 9 (release date: Sep 2019). However, 7.2 with Android OS version 10 (release date: 31st Mar 2020) or newer cannot read CWR card.

7. Due to the default setting of "MAC Address" as random in Android OS version 10 or above, users are required to change the setting manually. Please follow the instruction in the Annex.

8. When using DAR App, mobile phone with Android 10 or above version is required to connect to a stable Wi-Fi network (e.g. the Wi-Fi network connected through hotspot), regardless of whether a SIM card is being used.

9. Points to note when installing DAR App on Devices running Android 13:

   (a) The error message "Duplicated device registration" will appear when registering a new device. The error message can be ignored.
   (b) All Android 13 MAC addresses are the same in the DAR app.
   (c) All Android 13 Device Name are the same in the DAR app.

(d) If your construction site has more than one Android 13 device, do not deregister the device until contract ends.

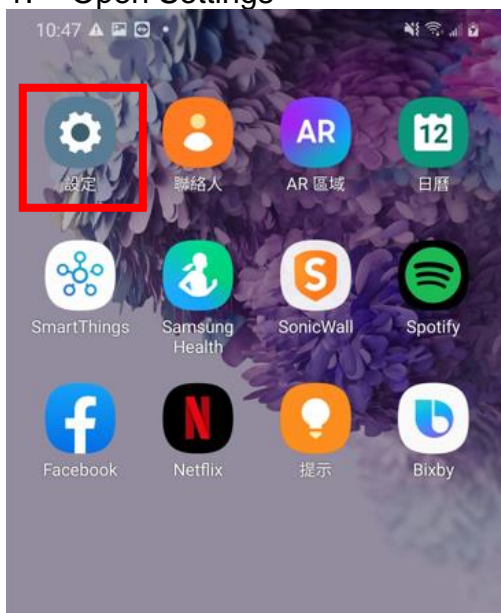(e) Other functions of the DAR app work fine with Android 13.

Set MAC Address in Android Device with Operating Platform 10 or above to local MAC Address

Users who use Android 10 or above to install DAR App should note that as DAR App relies on MAC Address to ascertain the identity of the mobile device, while starting from Android 10, the default MAC Address setting is random, users are required to change the MAC Address setting to "local" in order to use DAR App. (The "random" setting will cause the mobile device to trigger "re-registration" or "can't log in" status.)
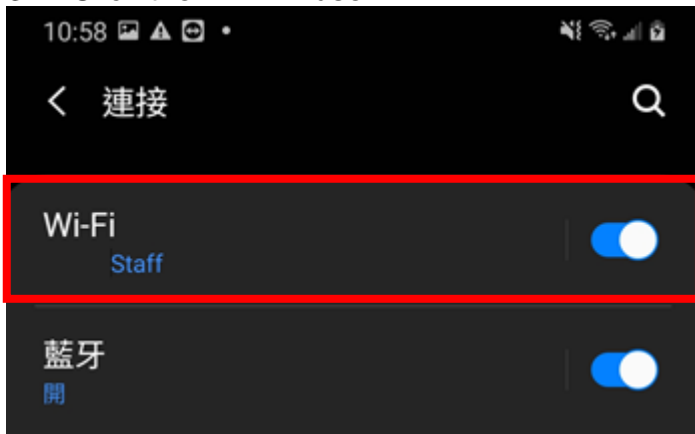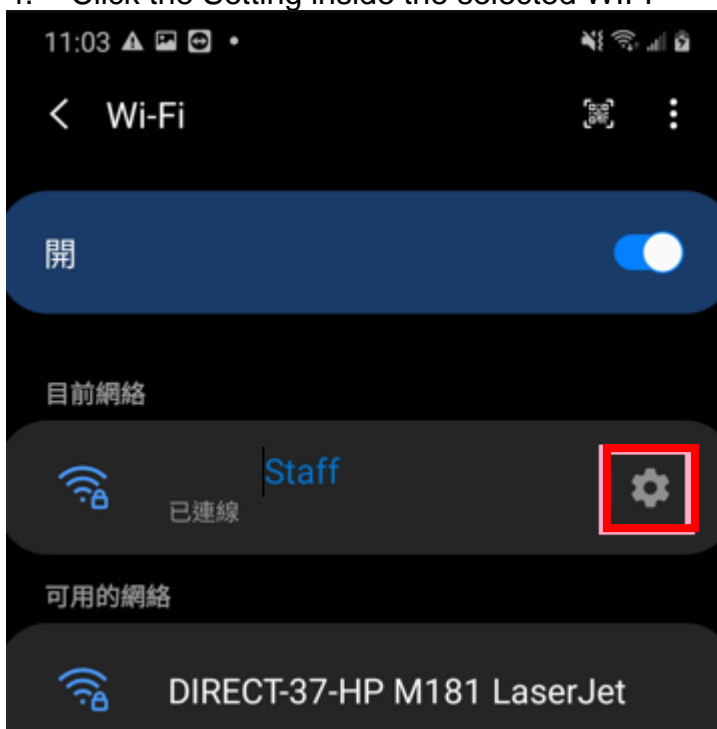
1.   Open Settings
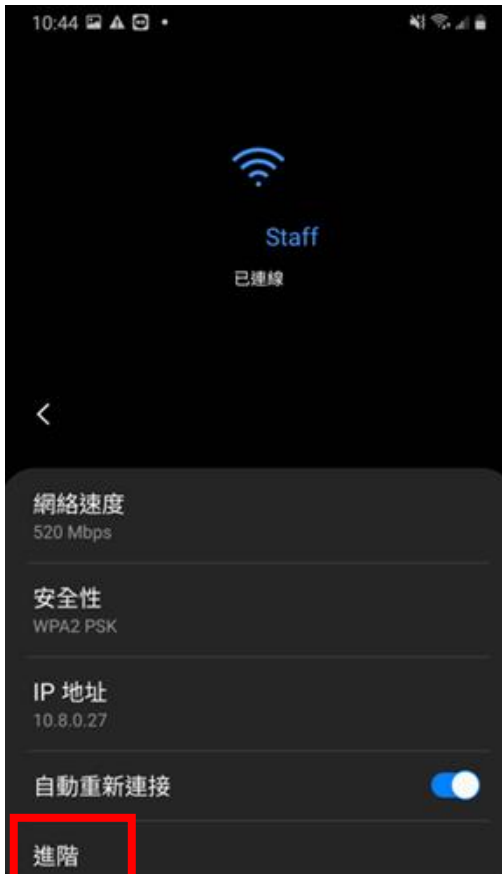

2.   Click Connect inside Settings

3. Click the WIFI in use

4. Click the Setting inside the selected WIFI

5. Select "advanced" at the bottom of the menu

6. Select "Mobile Phone MAC"

Remarks: Certain devices contain the MAC Address under "Privacy".

Disclaimer

1. The mobile device models listed on this document are company products (from its original factories) and have been tested by the CIC for compatibility with CWR card via the CIC "DAR App". Parallel import products' performance may be different.

2. Actual performance of the CIC "DAR App" may vary depending on individual device. The card reading performance may also be affected by the action and precision of tapping the card on the mobile device.

3. Other factors like operating system version, software version, NFC (Near Field Communication) detection area, system setting of the mobile device, operating environment, network connection as well as the tapping action may affect the performance and operation of the "DAR App" in reading the CWR card.

4. Whilst reasonable efforts have been made to ensure the accuracy of the information in this document, users should test the mobile device under actual environment and integration with other users' systems, if any, before deployment for use.

5. The CIC reserves the right to make any changes to this document without prior notice.