CONSTRUCTION INDUSTRY COUNCIL
建造業議會

(Last update in April 2026)

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 11 or above
2. NFC, WiFi & GPS available and enabled

Tested Mobile Phone:

Android OS version	Brand	Model
14	SamSung	A34
		Galaxy A35 5G
	Xiaomi	13T
	Huawei	Nova 11
	Honor	X9b 5G
	Vivo	V30e 5G
12	Vivo	V25
	Redmi	10
	Motorola	G82
	Huawei	Nova 9
	Samsung	A33
	Oppo	A77
	Xiaomi	12 Lite

Android OS version	Brand	Model
	Sony	Xperia 10 IV
11	Oppo	A72
	SamSung	A32

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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 (g) Mounting Kit available	https://www.sebiotec.com.hk/	2851 4567

	Company Name	Device Model	Features	Website	Contact
			(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.	Solution Expert Technology Limited	SE C600	(a) Operating System: Android 14 (b) Processor: MTK8781 Octa-core (2×A76 2.2GHz + 6×A55 2.0GHz) (c) Memory: 4GB LPDDR4X RAM / 64GB ROM (d) Storage Expansion: Supports MicroSD card (up to 1TB) (e) Display: 5.99-inch IPS TFT, 720 × 1440 resolution (f) Battery Capacity: 5000mAh	https://www.sebiotec.com.hk/	2851 4567

	Company Name	Device Model	Features	Website	Contact
			(g) Charging Time: 10W: approximately 4.5 hours 15W: approximately 3 hours (h) Camera: Front: 8MP / Rear: 13MP (i) Network Support: 2G / 3G / 4G (j) Wi-Fi: Wi-Fi 5 (2.4GHz / 5GHz), Wi-Fi Roaming, WPA3 (k) Bluetooth: Bluetooth 5.2 / 3.0 / 2.1 (l) Positioning Systems: GPS, BeiDou, GLONASS, Galileo, AGPS (m) NFC: ISO14443 A/B, ISO15693, Mifare (n) Sensors: Ambient Light Sensor, Proximity Sensor, Accelerometer (o) Audio: Dual-microphone noise reduction, 100dB speaker (p) Ports: USB Type-C, 2-pin cradle, 8-pin expansion port, shared digital audio interface (q) Dimensions & Weight: 163 × 77 × 13.9 mm; approx. 265g (including battery) (r) Protection Rating: IP67 (waterproof, dustproof, shock-resistant)		

	Company Name	Device Model	Features	Website	Contact
5.	Strobus (Far East) Ltd	Nilamtec B1	(s) Android OS Version 9X (t) Waterproof and dustproof IP68 (u) USB-C (v) Support optional RS-232 connectivity with RS232 D-sub connector (w) Support optional Wiegand protocol, optional Wiegand converter is required (x) WIFI / 4G (y) Mounting Kit can be customised (z) Standalone use of the mobile device can return signal for entrance gate opening, optional connection cable is required	https://www.strobus.com.hk/	26903773
6.	Synergos Systems Company Limited	CIC-M729	(a) Android OS Version 7X (b) Waterproof and dustproof IP54 (c) Micro USB (d) RS-232 connectivity (e) Wiegand protocol (f) WIFI / 4G (g) Mounting Kit available (Version 03)	https://www.synergos.hk/	31762121

	Company Name	Device Model	Features	Website	Contact
			(h) Standalone use of the card reading device can return signal for entrance gate opening (i) Temperature check (Version 04) (j) Buy or rent		
7.	Smart Site System	C530v3	(a) Android 11 (b) CPU : RK3568 chipset, 1.8GHz quad-core 64-bit, Cortex-A55 architecture (c) GPU : ARM Mali-G52 MC1 (d) RAM & ROM : 4G RAM + 16G ROM (e) Screen Size : 5 inches, resolution: 1280×720 (f) Communication Ports : RS232 × 1 · RS485 × 1 (g) Weigand Ports : Weigand In × 1, Weigand Out × 1, supports Weigand26 and Weigand34 formats (h) USB : USB2.0 × 2 (i) 4G : Supports Cat4 high-speed network module (j) WiFi : Supported (k) GPS & AGPS : Supported (l) Relay : 2 relay outputs (m) Speaker : Supported (n) NFC : Supported (NXP chipset) (o) Operating Temperature : -10℃ to 60℃ (p) Power Supply : DC12V 2A	https://www.sss.com.hk	Chris Man 21559488 62598011

	Company Name	Device Model	Features	Website	Contact
			(q) Device Dimensions : 200 × 180 × 48 mm		
8.	Smart Site System	SS600	(a) Operating System: Android 14 (b) Processor: MTK8781 Octa-core (2×A76 2.2GHz + 6×A55 2.0GHz) (c) Memory: 4GB LPDDR4X RAM / 64GB ROM (d) Storage Expansion: Supports MicroSD card (up to 1TB) (e) Display: 5.99-inch IPS TFT, 720 × 1440 resolution (f) Battery Capacity: 5000mAh (g) Charging Time: 10W: approximately 4.5 hours 15W: approximately 3 hours (h) Camera: Front: 8MP / Rear: 13MP (i) Network Support: 2G / 3G / 4G (j) Wi-Fi: Wi-Fi 5 (2.4GHz / 5GHz), Wi-Fi Roaming, WPA3 (k) Bluetooth: Bluetooth 5.2 / 3.0 / 2.1 (l) Positioning Systems: GPS, BeiDou, GLONASS, Galileo, AGPS (m) NFC: ISO14443 A/B, ISO15693, Mifare	https://www.sss.com.hk/	Chris Man 21559488 62598011

	Company Name	Device Model	Features	Website	Contact
			(n) Sensors: Ambient Light Sensor, Proximity Sensor, Accelerometer (o) Audio: Dual-microphone noise reduction, 100dB speaker (p) Ports: USB Type-C, 2-pin cradle, 8-pin expansion port, shared digital audio interface (q) Dimensions & Weight: 163 × 77 × 13.9 mm; approx. 265g (including battery) Protection Rating: IP67 (waterproof, dustproof, shock-resistant)		
9.	BIG FIRE SURVEILLANCE TECHNOLOGY LIMITED	DVA-3588-01	(a) Android OS 13 (b) Processor: RK3568 Quad-core Cortex-A55 2.0GHz, NPU 1TOPS (c) Memory: 4GB RAM + 32GB ROM (d) Display: 8" IPS touch screen, resolution 800×1280 (e) Water & Dust Resistance: IP54 (f) USB Port: 2 x USB 2.0 (g) RS485 Interface (h) 4G, WiFi (i) Relay Output (Switching Signal Output)	https://www.bigfire.hk/	James Wen 21163330

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 11 and 12, users are required to change the setting manually. Please follow the instruction in the Annex.

8. When using DAR App, mobile phone with Android 11 and 12 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 11 and 12 to local MAC Address

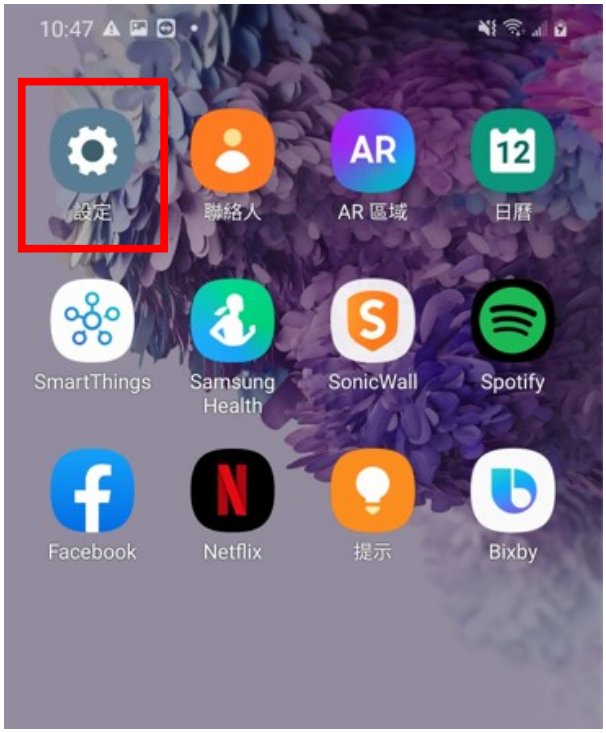
When using Android 11 and 12 systems to install the DAR APP, please pay attention to the following:

The DAR APP uses the device's MAC address to identify the mobile device. However, in Android 11 and 12, the system defaults to using a randomized MAC address. If the randomized MAC address is used, it may cause the following issues:

The device prompts for re-registration.
Users are unable to log in properly.
Before installing the application, please set the MAC address to the device's local MAC address (i.e., non-randomized). Additionally, whenever the device connects to a new Wi-Fi network, you will need to set the MAC address to local mode again.

Please ensure that these settings are completed before installation and use to avoid impacting the user experience.

Steps to Set the MAC Address to Local Mode (Steps may vary depending on the device):
1. Open the Settings menu on your smartphone



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.