CONSTRUCTION INDUSTRY COUNCIL
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Construction Workers Registration System (CWRS) Seminar

Jan 2019

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1. Terminology

CWRS - Construction Workers Registration System

- New system launched in Dec-2015

SATM - Site Attendance Module

- Old system using excel files to submit DAR

Good List

- The list of workers assigned to work on a specific contract or site
- Controlled by the site admin or master admin of an individual contractor

Bad List

- The list of workers not allowed to work on a specific site
- Controlled by CIC for all contracts or sites

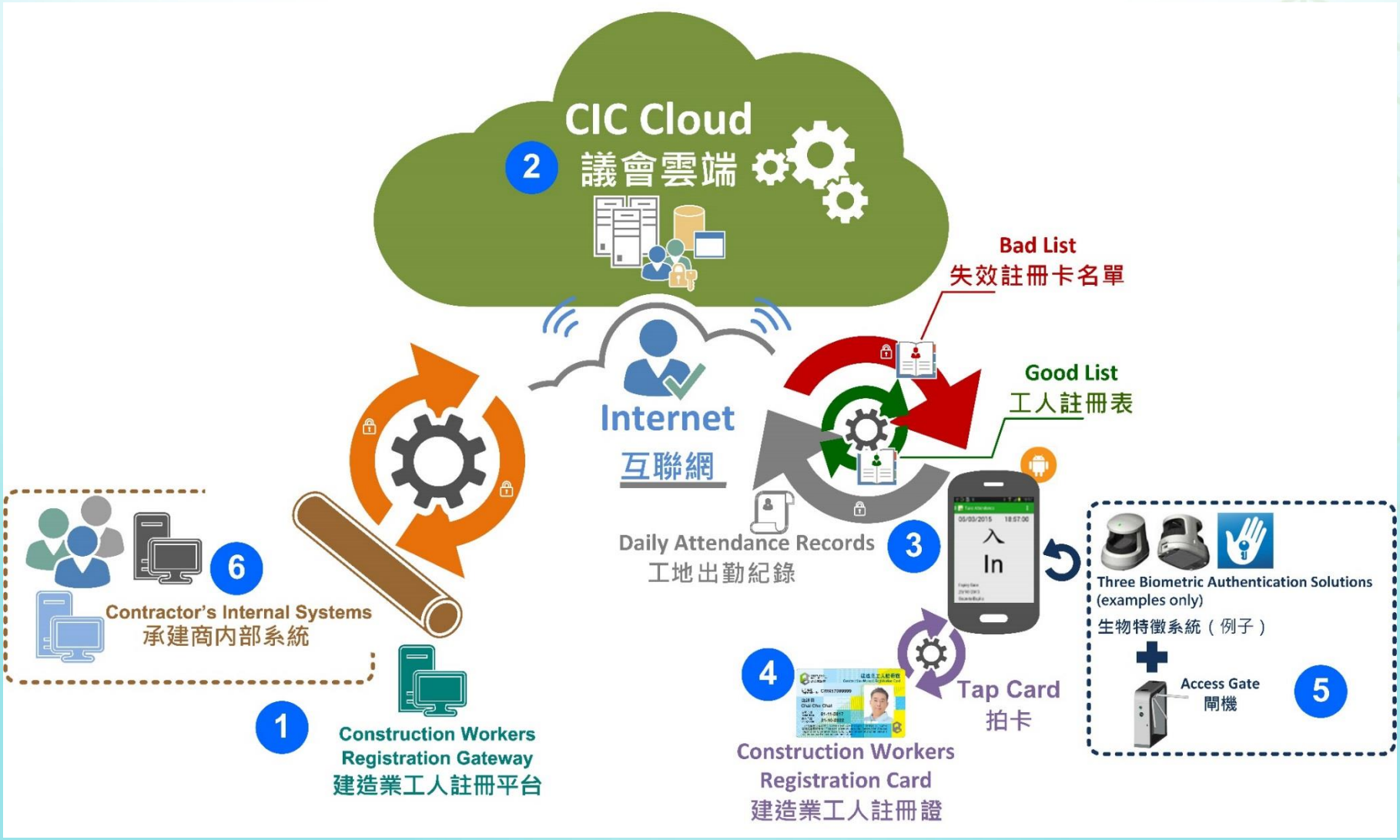
DAR – Daily Attendance Record

NFC – Near Field Communication

CWRG – Construction Workers Registration Gateway (Front-end portal)

CWR Card – Construction Workers Registration Card

2. System Overview



3. Benefits

1. Enhanced flow of collection & submission of DAR
2. More options on card readers to record the workers registration card information
3. Web-based managing platform for daily site administrator work
4. Increased accuracy of DAR collection
5. Simplified registration process for workers
6. Workers can access their DAR on CWR card
7. Multipurpose on one card

3. New Construction Workers Registration Card

4. Roles & Duties

Roles	Duties
Site Admin	•Manage and edit Good List and DAR •Submit DAR via CWRG •Login CIC DAR App for admin functions
Master Admin	In addition to the access rights of the Site Admin: •Create / manage / delete site admin accounts •Manage Contracts
Workers	•Tap CWR Card on CIC DAR App to create attendance record

5. System Components

Applications

- Construction Workers Registration Gateway [CWRG]
- CIC Daily Attendance Record Application [CIC DAR App]

Hardware

- Android device with NFC (NXP chipset) & GPS (ver.4.4.2 to 8.1)
  * Final result depends on actual testing
- Computer with browser*
  *IE: v.10 or above
  Chrome: v.48 or above
  Screen resolution: 1280 x 1024 (recommended)

CWR Card

- Valid & Updated Workers Registration Card

6. CIC Android Device

Basic

- Android (OS ver. 4.4.2)
- WiFi + 3G
- NFC (NXP chip set)
- GPS
- Micro USB
- Micro SD

Durability

- Water Resistant (IP54)
- Shock Resistant (810G)

Options

- Wiegand & RS232 & USB connectivity
- Fixation

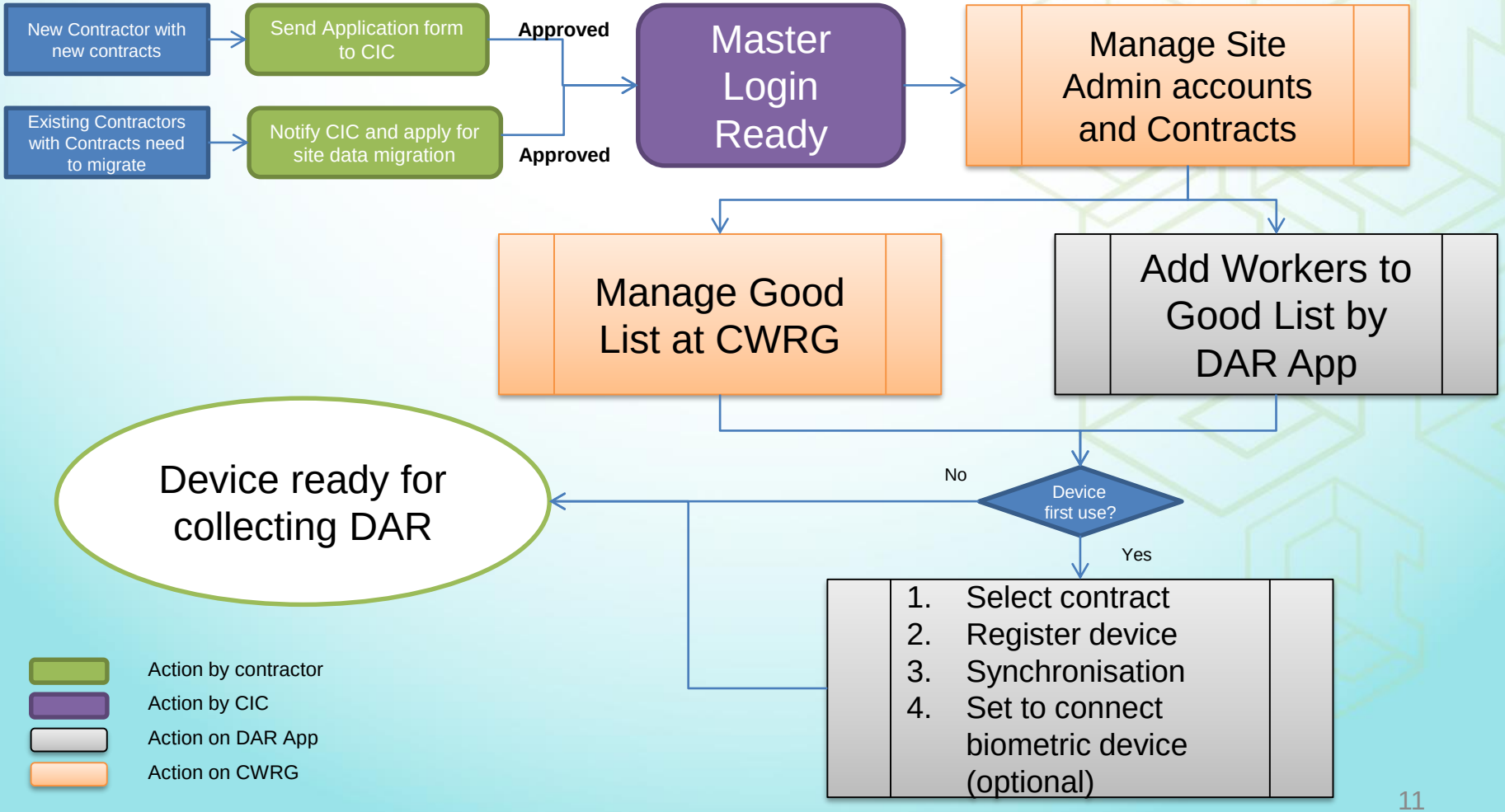
7. Other tested Android Devices

1. Asus Zenfone 5**
2. CAT S41*
3. HTC One E8
4. HTC One ME
5. HTC Desire 530
6. HTC U Play*
7. Huawei Honor 6 Plus
8. Huaiwei Y7 Prime 2018**
9. InFocus Vibe P1
10. LG G3
11. LG G3 Beat
12. LG GPro2
13. LG G4 Stylus
14. LG G5*
15. LG Sytlus 2*
16. LG Sytlus 3*
17. LG X Power
18. LG K10 Power*
19. LG K10 2017*
20. LG Q Stylus +**
21. Meizu Pro 5
22. Motorola Moto G5 Plus*
23. Nilamtec A1**
24. Nokia 8**
25. Samsung Galaxy A8
26. Samsung Galaxy C5
27. Samsung Galaxy Grand Prime
28. Samsung Galaxy J5 2016
29. Samsung Galaxy Note 5
30. Solution Expert C530
31. Sony Xperia C3
32. Sony Xperia SP
33. Sony Xperia Z5 Premium
34. Sony Xperia M4 Aqua
35. Sony Xperia XA
36. Sony Xperia XA1*
37. Sony Xperia XA2**
38. Synergos CIC-M729*
39. UniStrong E7738A1 (HK ver.)
40. UniStrong E7759-B2*
41. Xiaomi Mi5

(Android ver. 7.0)*
*(** Android ver. 8.0)*

1. The CIC does not hold any bias towards any brands or models of mobile device for DAR operations.
2. The list above is only a record of testing devices. Contractor users are free to choose any mobile device as long as they fulfill the basic requirements for the CIC Attendance apps operations

8. Setup Procedure



9. Daily Operation after Setup

Raw data will synchronize with CWRS automatically at

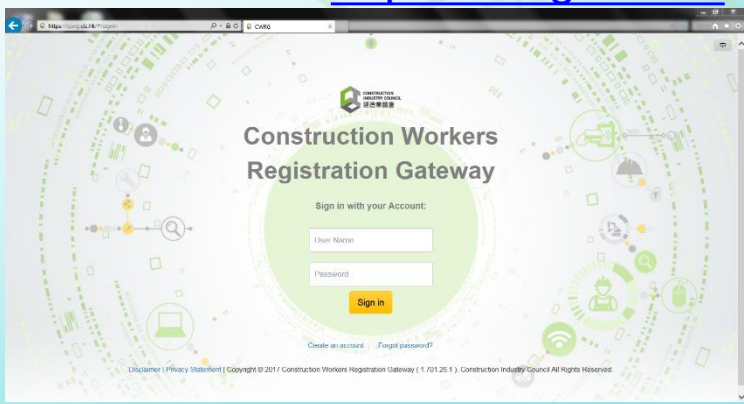
- Around 04:00, 10:00, 16:00, 22:00 (4 times daily)

- Duties during the 7-day cycle:
  1. Check raw DAR
  2. Edit DAR if necessary
  3. Submit DAR in time

10. Manual Highlight - CWRG

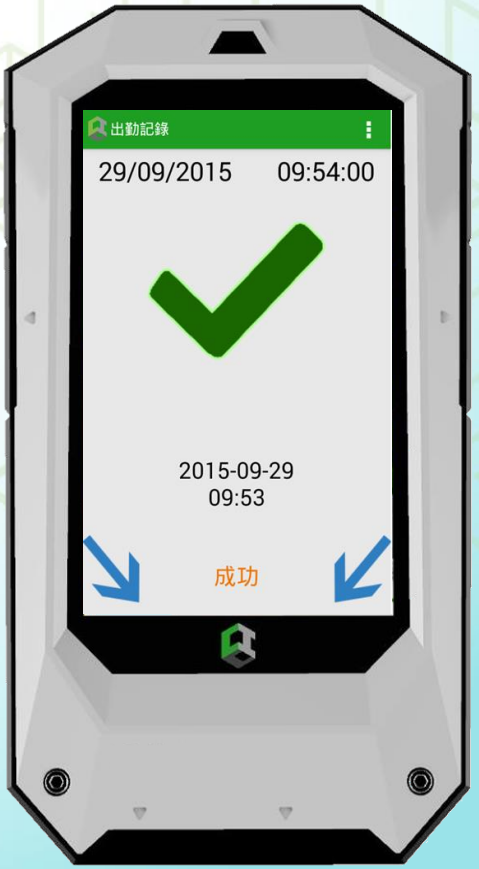
- Contractor/ Contract Profile [chapter 2.2]
  - Apply new contract/ Update request
- DAR – Editing & Submission [chapter 2.3]
- Good list Conflicts [chapter 2.4.1]
- Export and Download [chapter 2.4.2 & 2.4.4]
- Email notifications [chapter 2.4.8]
- DAR for verification [chapter 2.4.9]
- Heartbeat [chapter 2.4.11]

https://cwrg.cic.hk/



11. Manual Highlight - DAR App

- Reminder on Stable Network [chapter 1.1.2]
- Device De-/Registration [chapter 1.1.3-4]
- Setup (Tap Indicator, Biometric, Auto-start, Heartbeat, Auto Download, Return Signal Response time) [chapter 1.1.6]
- Good List Management (Add/ Edit/ Delete) [chapter 1.2]
- Data Synchronization [chapter 1.4]



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Thank you