

SUBSTATION AND RIGHT OF WAY CHECK-IN/OUT MOBILE APP

Daniel Marr

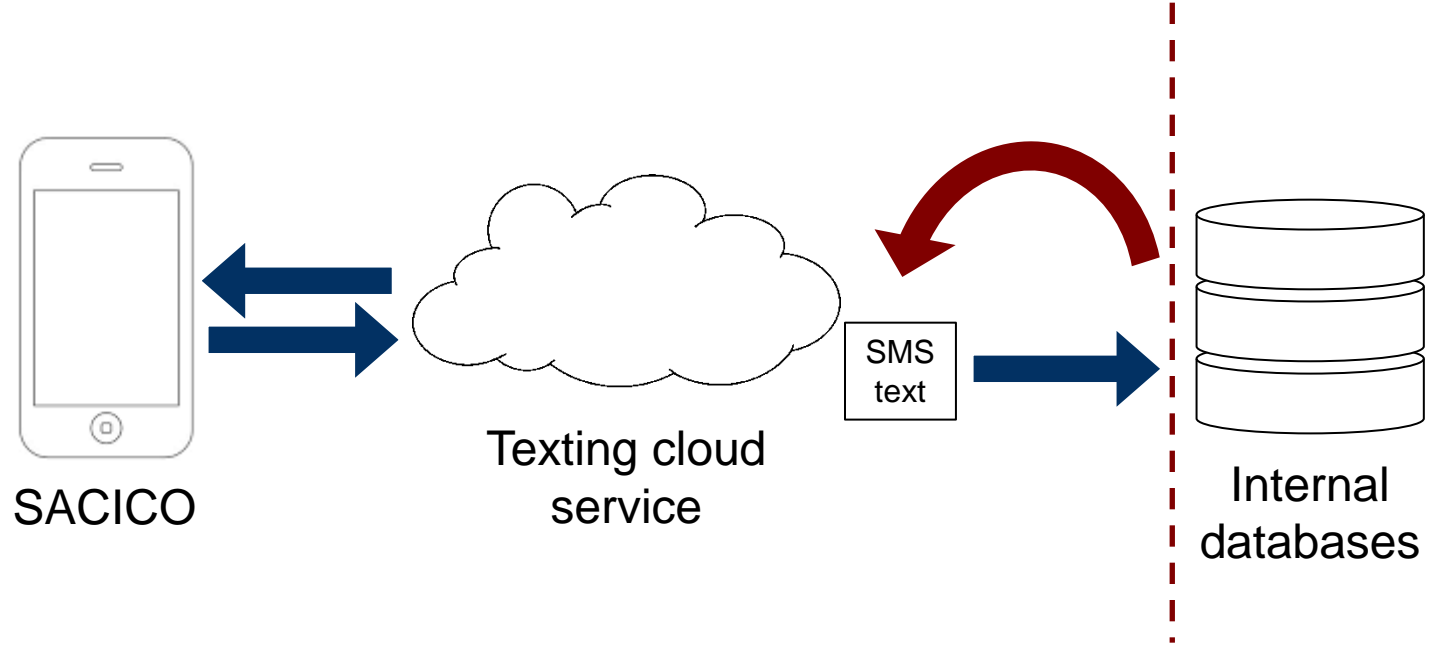
LCRA TSC – Director, SOCC Operations



Problem



Solution – SACICO Check-In Application



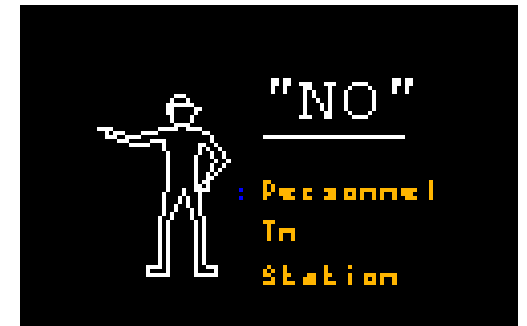


SACICO Benefits

- Reduced phone calls ~325 per week
- Deployment challenges
 - Cell phone plan coverage
 - To pay or not pay for devices and plans
 - EMS/DMS connection
 - Methods of deployment

Current State

- All field personnel are required to call the SOCC when entering or leaving a substation or right of way
- SOCC operator opens EMS site one-line display
- One-line display has personnel in station icon on screen to alert operators



Check-In Details on EMS

PERSON:Personnel in ANDICE

Tag Created Time: 12/06/16 16:45:15 CST

Tag Type: Information

User Name: O

Multi-Item Tag Name:

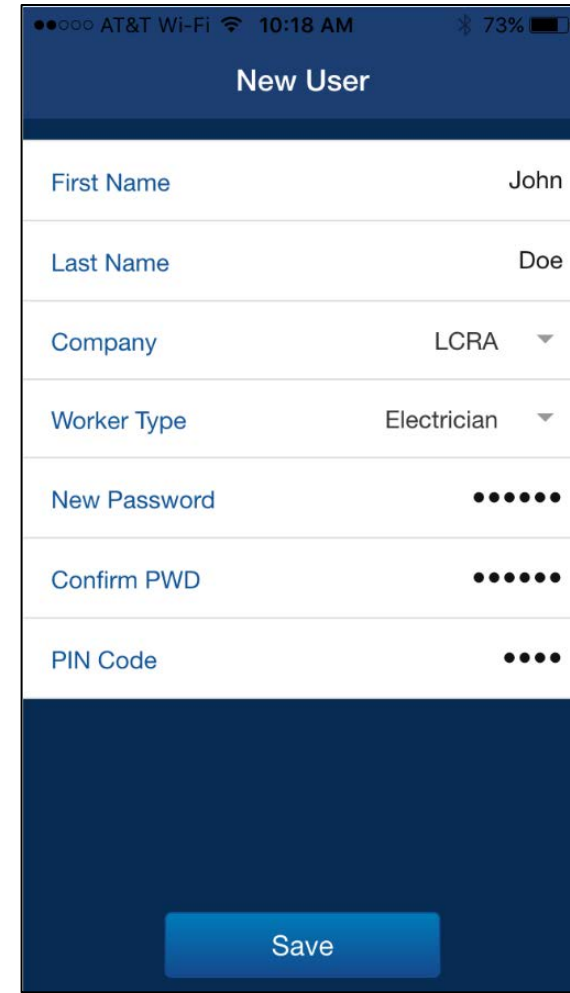
Comment:

Bill Fredenburg (LCRA)
Phone: +15125799560
Type of Work: Switching
Notes: Presentation demo
Duration: 30 minutes

Cancel

Automated Check-in/Check-out Features

- Employee only has to enter identifying information one time during the initial setup
- Employee establishes a PIN code for security



The screenshot shows a mobile application interface for creating a new user. The title is "New User". The form contains the following fields:

First Name	John
Last Name	Doe
Company	LCRA
Worker Type	Electrician
New Password	•••••
Confirm PWD	•••••
PIN Code	••••

A "Save" button is located at the bottom of the form.

Automated Check-in/Check-out Features

AT&T 10:47 AM 95%

< Back Check-In

Connected Test SMS

Type of Work Sub Inspection/Battery

Location Search Hicross

Estimated Time 1 Hr

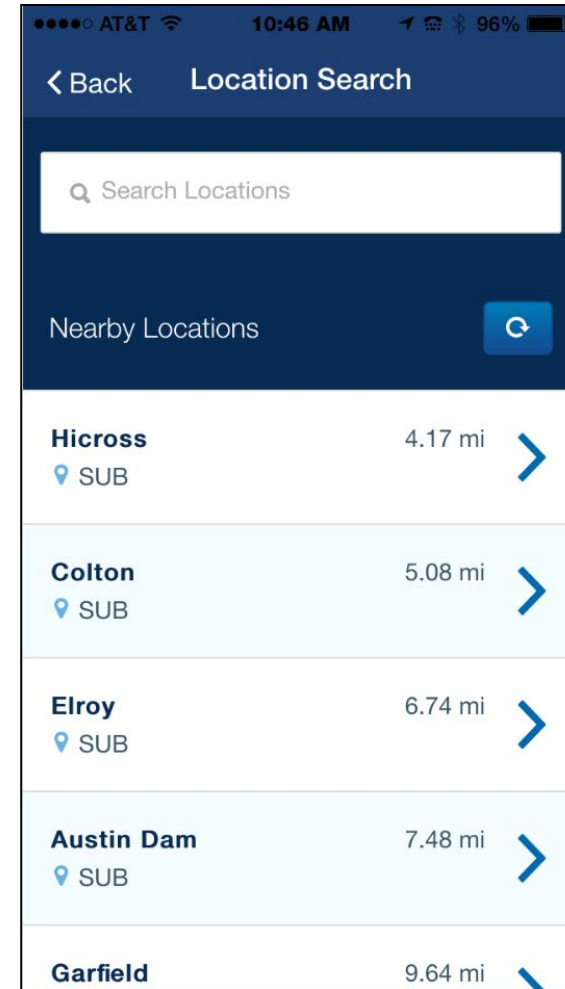
Monthly battery inspection

Check-In

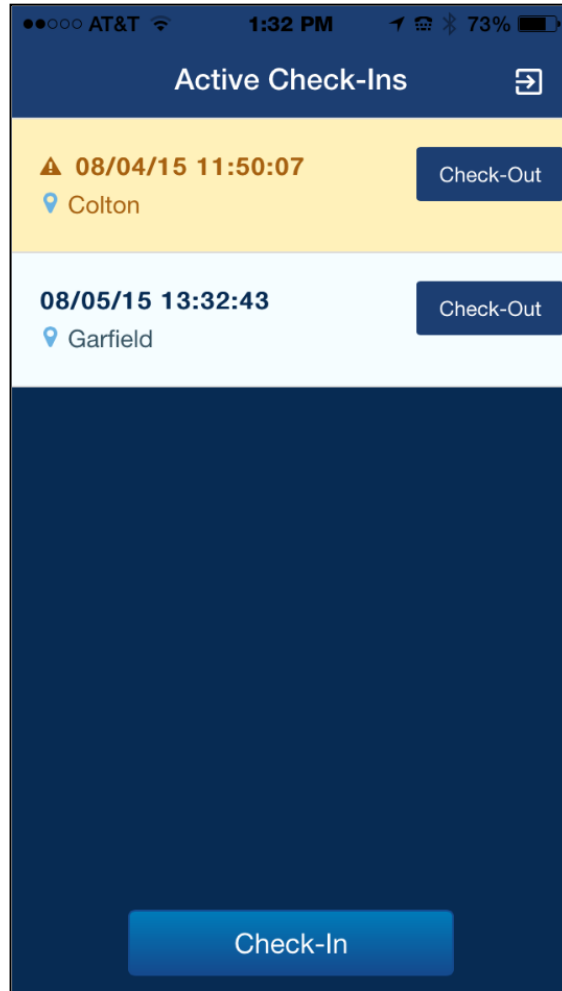
- Provides simple dropdown menus to simplify data entry
- Location search
- Estimated time onsite to provide reminders
- Optional notes field (65 character max)

Automated Check-in/Check-out Features

- App presents the closest 10 substations when selecting location, or user can also search by name or number for ROW

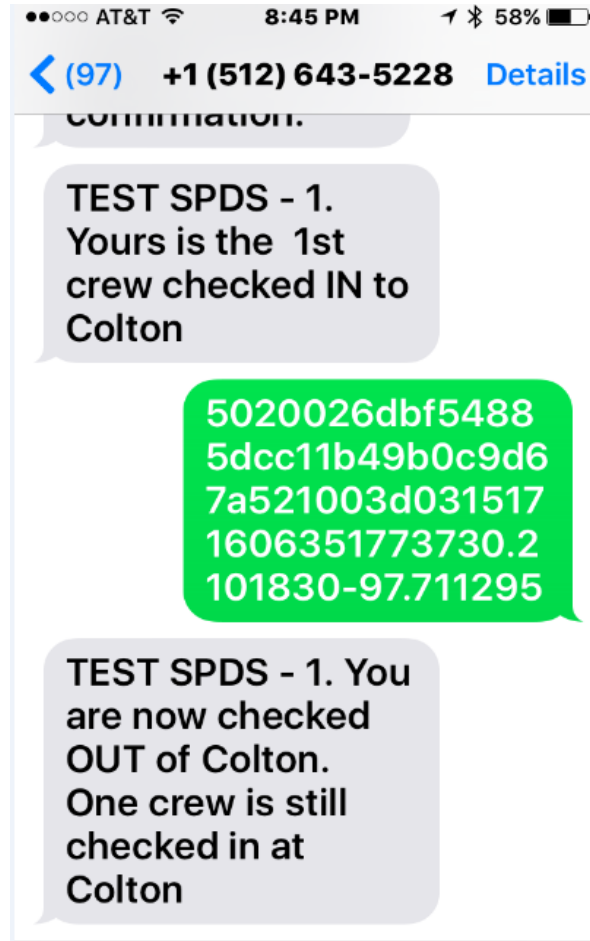


Automated Check-in/Check-out Features



- Main screen displays current check-in status
- Provides visual alert, as well as pop-up alert when checked in past estimated time to remind personnel to check out
- App will never check you out; it will only send a reminder.

Multiple Crew Message



Important Information

- There will still be many situations where you need to call and talk to SOCC operators
 - This app is not intended to replace that interaction
- Until the confirmation is received, you are NOT checked in and nobody knows you are there
- You will still need to call and notify other control centers when in jointly owned stations
- Ability to use the app to check-in/out is separate from physical access to a substation or getting keys to the substation
- The app will only update when on Wi-Fi – not while on cellular data plan

Important Information

- The app only uses text messages to communicate with SOCC EMS system.
- Typical time from sending check-in/out message to being logged in or out is 35-55 seconds.
- If checking into substation to test alarms, you can check in with app, but must still call prior to leaving to verify alarms are clear.
- App shows up in Apple App Store and Google Play as SACICO.
- Discrepancies in checked in/out crew count **MUST** be reported to SOCC!

Questions?

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