Document type	QA-Report
Project	mQis
Document Title	RFID and Touch Cable UI and alerts updates
Prepared by	Konda Santhosh
Verified by	Srinidhi M S
Department	Engineering &Development

Table of Contents

	QA-Report	Doc No:
SUN MOBILITY	RFID and Touch Cable UI and alerts updates	**Project Name: mQIS-CCU-SW**

1.Overview

- Project Name: RFID and Touch Cable UI updates
- Report start Date: 8th July2025
- Report Prepared by: Konda Santhosh
- Test Period: (1st July)
- Version/Build Tested:
  CCU Branch - https://gitlab.sun-mobility.in/blinston/ccu/-/tree/display_touch_issue
  CCUUI Branch - https://gitlab.sun-mobility.in/blinston/ccuUI/-/tree/display_touch_issue
- OS Version:22.04.
- Station number: 2039

2.Objective

- The objective of this feature is to address field display or RFID issues that may occur due to cable failure or loss of connectivity. In such cases, the system will notify the user by displaying a symbol on the UI to indicate connectivity issues, along with an alert to ensure the user is aware of the problem.

3.Problem statement

- Currently, in the field, due to **loose connectivity of the RFID or touch screen cables**, users are unable to **scan RFID cards** or **access the admin screen**. This leads to failed interactions with the system and limits functionality during critical operations...

4.Tools /Dashboards used

- CNC-Cloud Alert verification.
- Kibana-Station alert verification.
- UI-For Gif verification.

5.Test cases

Test Case ID	Test Scenario	Preconditions	Test Steps	Expected Result	Actual Result	Status PASS/FAIL
TC_01	RFID Sensor Not Detected - Icon Display	1.Station is powered ON. 2.RFID sensor is disconnected or fails to respond during boot.	1.Power ON the station. 2.Ensure the RFID sensor is physically disconnected or simulate failure in firmware.	RFID error icon is displayed on the Home Screen indicating sensor is not detected.	RFID symbol displayed as expected.	Pass
TC_02	RFID Sensor Not Detected - Alert Generation	1.Station is powered ON. 2.RFID sensor is disconnected or fails.	1.Disconnect the RFID sensor. 2.Observe the alert in Kibana or alert logs.	An alert is generated (e.g., "mQis-Touch-Screen-Fault" or relevant alert code). Alert timestamp and ID are logged correctly.	1.Alert generated same and expected.	Pass
TC_03	Display Touch Sensor Not Detected - Icon Display	Touch panel hardware issue or firmware failure.	1.Simulate a failure of the touch sensor (e.g., disconnect touch cable or use test firmware). 2.Boot the station and observe the Home Screen.	A dedicated icon (like touch alert icon) is shown to indicate touch input is not functional.	Touch panel hardware issue or firmware failure.Same as expected	Pass
TC_04	Display Touch Sensor Not Detected - Alert Generation	Touch sensor is non-responsive.	1.Power ON the station with touch hardware failed or disconnected. 2.Monitor system logs or alert history.	1.Alert such as "mQis-Touch-Screen-Fault" is generated. 2.Alert is visible in the station alert list / pushed to server if online.	Touch sensor is non-responsive.Same as expected	Pass
TC_05	Recovery Test - Sensor Reconnection	RFID or touch sensor was previously not detected and error icons + alerts were shown.	1.Reconnect the faulty sensor. 2.Restart the station or refresh sensor status if hot-pluggable. 3.Observe the Home Screen and	1.Sensor icon should disappear if the device is now detected. 2.Recovery alert (e.g., RFID_SENSOR_RECOVERED) is optionally logged or old alert is	RFID or touch sensor was previously not detected and error icons + alerts were shown.Same as expected	Pass
TC_06	Offline verification	Validation of Touch and RFID status in Offline.	1.Refer above test cases.	1.Expected result should be same as above cases.	1.Same as expected.	Pass

6.Test Results

GIF Image Indication for Touch-Cable Connectivity Issue

GIF Image Indication for RFID-Cable Connectivity Issue
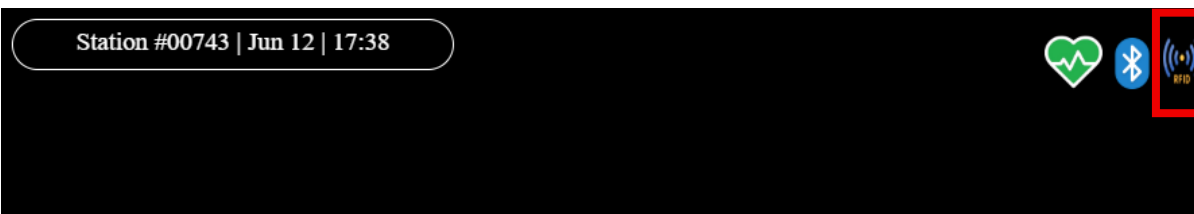
7. New Alert Feature Overview

Alert for Touch screen, false.

emergency	mQis-System-Operations	mQis-Touch-Screen-Fault	Touch-control	Touch screen not working, Rfid: True, Touch Screen: False	2025-07-15 11:08:04	NA	NA	NA

Post re-connection alert re-set status

emergency	mQis-System-Operations	mQis-Touch-Screen-Fault	Touch-control	Touch screen not working, Rfid: True, Touch Screen: True	NA	2025-07-15 11:10:04	NA	NA

Alert for RFID reader, false.

emergency	mQis-System-Operations	mQis-Touch-Screen-Fault	Touch-control	Touch screen not working, Rfid: False, Touch Screen: True	2025-07-15 11:15:05	NA	NA	NA

Post re-connection alert re-set status

emergency	mQis-System-Operations	mQis-Touch-Screen-Fault	Touch-control	Touch screen not working, Rfid: True, Touch Screen: True	NA	2025-07-15 10:41:11	NA	

8.Conclusion

The functionality has been verified and is working as expected. The feature is cleared and ready for production deployment.