



PCS Field Data Collector

Release History

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Revised April 2023

PCS Field Data Collector Improvements

PCS Field Data Collector v1.16 Updates

April 2023

User Interface Improvements

PCS Field Data Collector has been updated with an improved user interface for test point readings in the Periodic Survey Module. For Test Points that have Test Point Details defined in PCS, the Test Point reading field is no longer visible. The following screenshot reflects the new view:

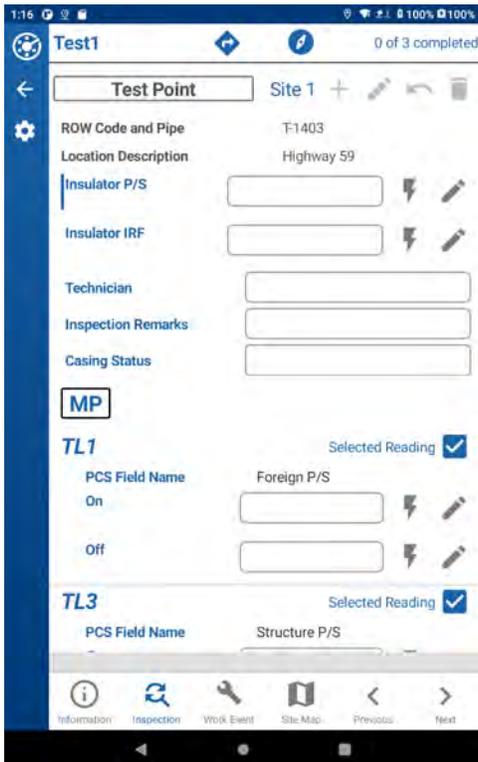


Figure 1-1. Test Point Details Screen

Miscellaneous Improvements

The following issues have been improved or fixed:

- **General Improvements**
 - Various performance and stability enhancements.

PCS Field Data Collector v1.15 Updates

February 2023

Direct Current Voltage Gradient (DCVG) Survey Module

PCS Field Data Collector now supports DCVG surveys. This update adds a second External Corrosion Direct Inspection (ECDA) indirect survey type to Field Data Collector, bringing more capability to AI's new generation of field equipment.

Miscellaneous Improvements

The following issues have been improved or fixed:

- **General Improvements**
 - Various performance and stability enhancements.

PCS Field Data Collector v1.14 Updates

November 2022

CartoPac Cathodic Protection is now PCS Field Data Collector

American Innovations is pleased to announce that the CartoPac Cathodic Protection app has been rebranded as PCS Field Data Collector. The new branding emphasizes the close integration of Field Data Collector in the American Innovations PCS family of products.

Miscellaneous Improvements

The following issues have been improved or fixed:

- **General Improvements**
 - Various performance and stability enhancements.

PCS Field Data Collector v1.13 Updates

September 2022

iOS Support for Juniper Geode GNS2 and GNS3 GNSS Receivers

PCS Field Data Collector now supports Juniper Geode GNS2 and GNS3 GNSS receivers on iOS. Users may connect the Geode device via Bluetooth and enable external GPS in the PCS Field Data Collector app.

Android 11 Support

PCS Field Data Collector now supports Android 11 on the Mesa 3 tablet. Upgrade instructions for the Mesa 3 will be communicated at a later date.

New Backup/Restore Process

There is a new backup/restore process in PCS Field Data Collector versions 1.13 and later.

Miscellaneous Improvements

The following issues have been improved or fixed:

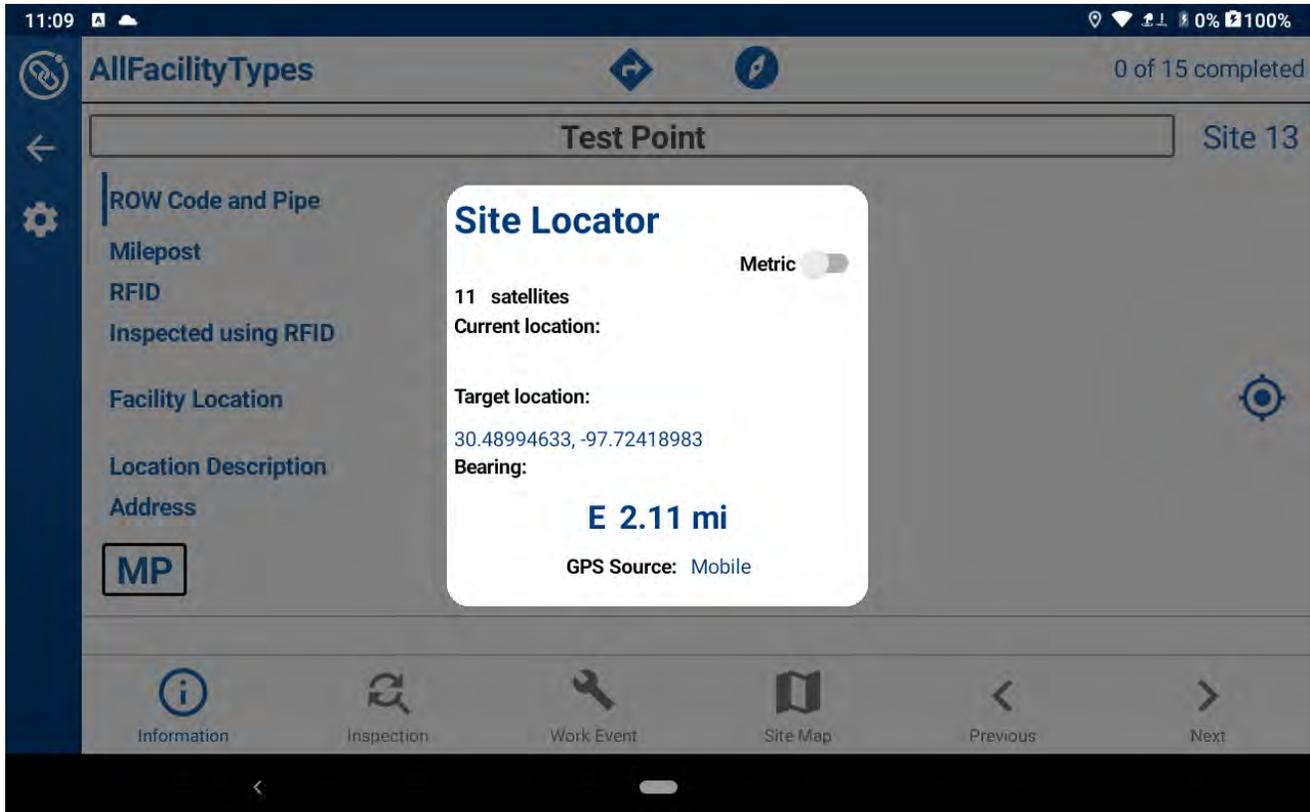
- **General Improvements**
 - Various performance and stability enhancements.

PCS Field Data Collector v1.12 Updates

August 2022

Bearing and Distance to Site

Users can now access the **Bearing and Distance to Site** information from the **Info**, **Inspection**, and **Maintenance** pages by tapping the  icon. It is no longer necessary to go to the site map first.



Miscellaneous Improvements

The following issues have been improved or fixed:

- **General Improvements**
 - History icon now appears in picklist fields.
 - Increased font size for history records.
 - Maintenance-only surveys no longer have inspection prompts.
 - Various performance and stability enhancements.

Update Periodic Survey On/Off Settings From DVM Screen

Users can now apply on/off settings to a Periodic Survey from the DVM Screen using the **Apply To** button.

iOS Support for Trimble R1 GNSS

PCS Field Data Collector now supports Trimble R1 GNSS devices on iOS. Users may connect the Trimble device via Bluetooth and enable external GPS in the PCS Field Data Collector app.

PCS Field Data Collector v1.11 Updates

June 2022

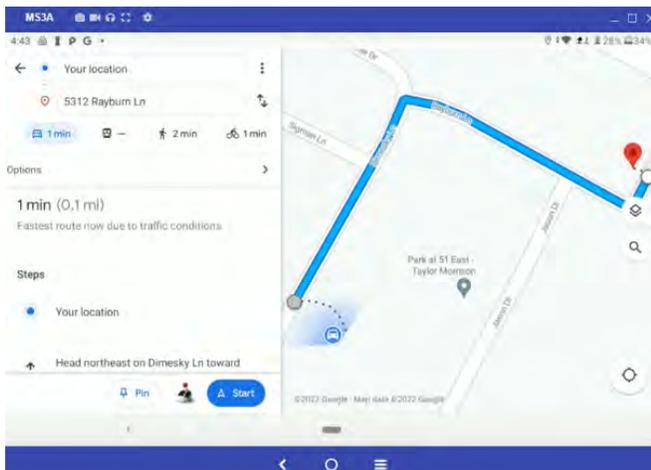
Enhanced Map Navigation Features in Periodic Survey

PCS Field Data Collector v1.11 introduces the following map navigation features in Periodic Survey:

- *Turn-By-Turn Directions*
- *Bearing and Distance to Site*
- *Indicators for Sites Without GPS Coordinates*

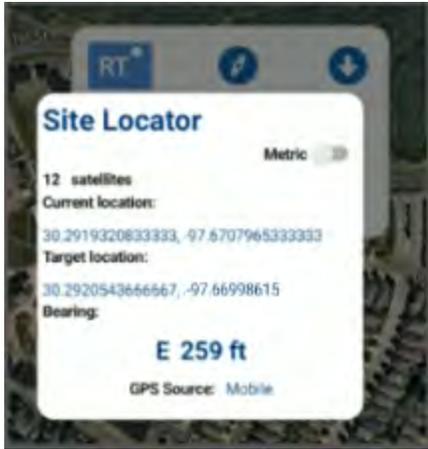
Turn-By-Turn Directions

Users can access Turn-by turn directions to sites with GPS coordinates from the site list in Periodic Survey.



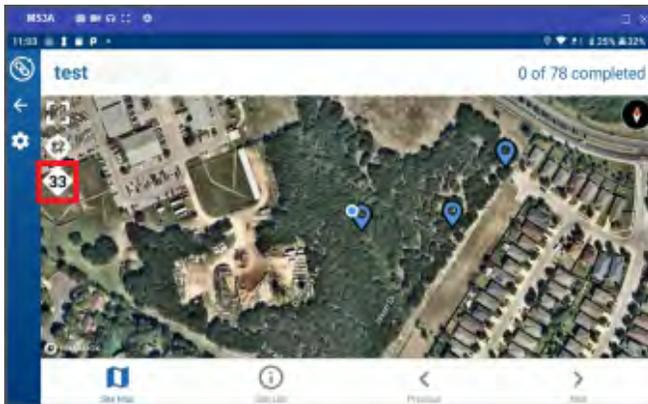
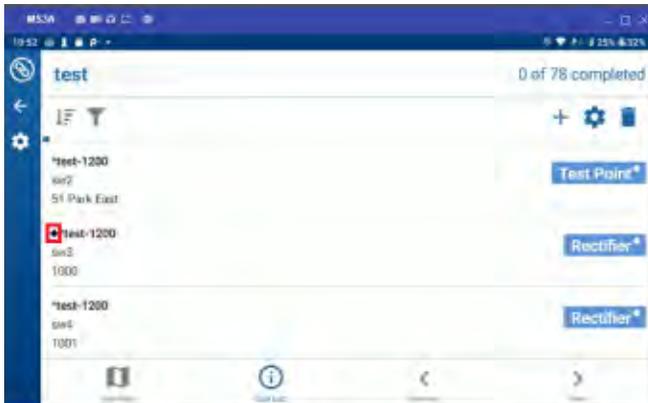
Bearing and Distance to Site

Users can determine bearing and distance to sites with GPS coordinates from the site map in Periodic Survey.



Indicators for Sites Without GPS Coordinates

For surveys sent from PCS version 2.3 or later, visual indicators have been added to the *site list* and *site map* denoting sites without GPS coordinates entered into the **Facility Location** field.



No Unit of Measure Displayed for Manually Entered Current Readings

No unit of measure is displayed for a value entered into a shunt (or current) field manually (without using an attached DVM).

If a current value is captured using an attached DVM and a shunt factor **is set**, the unit of measure displayed is Amps.

If a current value is captured using an attached DVM and a shunt factor **is not set**, the unit of measure displayed is Volts.

Miscellaneous Improvements

The following issues have been improved or fixed:

- **General Improvements**
 - Various performance and stability enhancements.

PCS Field Data Collector v1.10 Updates

May 2022

Close Interval Survey Supported on iOS Devices

PCS Field Data Collector v1.10 introduces support for Close Interval Survey (CI Survey) on iOS devices.



Enhancements

The following issues have been improved or fixed:

- **General Improvements**
 - Various performance and stability enhancements.

PCS Field Data Collector v1.9 Updates

March 2022

RFID Supported on iOS Devices

PCS Field Data Collector v1.9 extends support for RFID to iOS devices.

Max/Min/Average Test

PCS Field Data Collector v1.9 introduces a **Max/Min/Average Test** in Periodic Survey to capture timed P/S and IRF readings over a user specified time frame.



Figure 1-2. Max Min Avg Test Window

Enhancements

The following issues have been improved or fixed:

- **General Improvements**
 - Various performance and stability enhancements.
- **Close Interval Survey**
 - Resolved issue causing a date & time of *1/5/1980 18:00:00* to be entered in the **DVM log** and **CI SVX** files if a GPS lock has not been acquired by the DVM.

PCS Field Data Collector v1.8 Updates

February 2022

Enhancements

The following issues have been improved or fixed:

- **General Improvements**
 - Resolved issue causing DVM to disconnect when the PCS Field Data Collector app is in the background.
 - The battery status of a connected DVM is displayed in all windows.

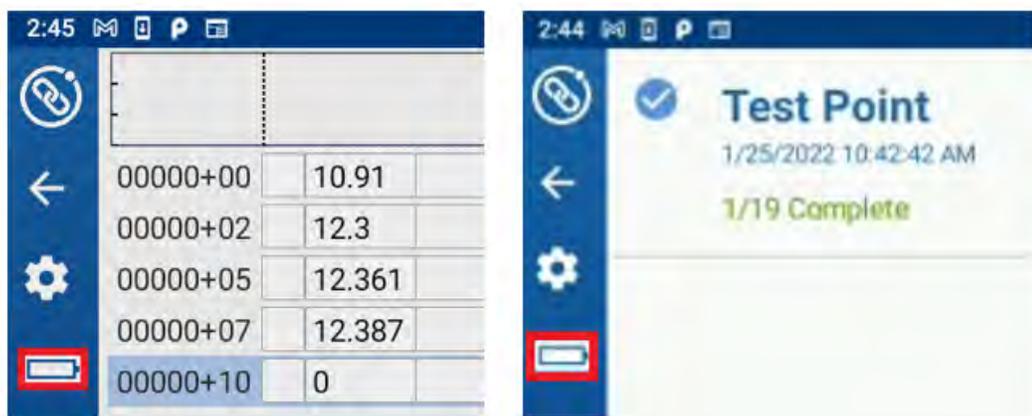


Figure 1-3. DVM Battery Status in Different Windows

- Various performance and stability enhancements.

- **Close Interval Survey**
 - Resolved issue causing *No GPS* to be displayed in the **Inspection Remarks** column between designated GPS readings.

PCS Field Data Collector v1.7 Updates

December 2021

Supported for Use with Devices Running iOS

PCS Field Data Collector v1.7 introduces support for use with devices running iOS. Supported versions of iOS include 14 and 15.

For detailed requirements, search for **PCS Field Data Collector** on the App Store.

Enhancements

The following issues have been improved or fixed:

- **Periodic Survey**
 - Resolved issue causing inspection fields for new facilities created on a mobile device running PCS Field Data Collector to be inactive after import into PCS.

PCS Field Data Collector v1.6 Updates

October 2021

Support for PCS Wireless Sync

PCS Field Data Collector v1.6 introduces support for wireless syncing of survey data with PCS and PCS [[[Undefined variable productsInfo_ai/cn/sm.softwareName]]]. Facility survey files can be synced over the internet to your device via a Wi-Fi or cellular data connection.



For PCS Wireless Sync requirements and FAQs, refer to the [PCS Wireless Sync data sheet](#).

Remove CSV Files with CI Survey File Maintenance

Exported .csv files can now be removed from a device using **CI Survey File Maintenance**. Previous versions of the PCS Field Data Collector app only supported removing survey files using the file maintenance utility.

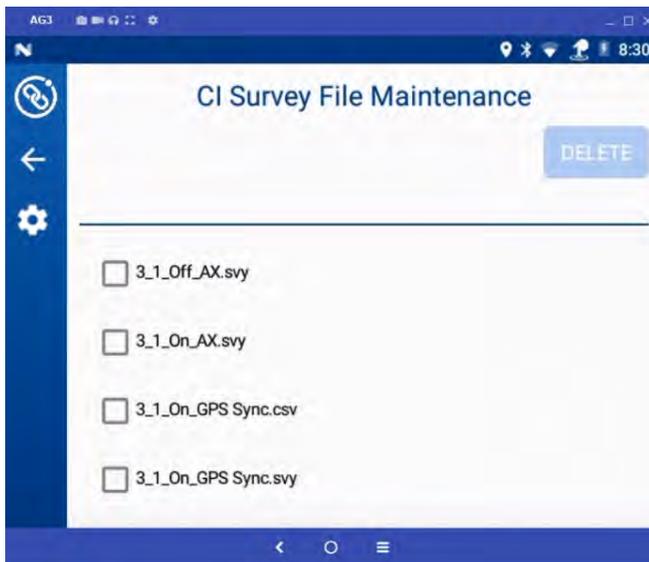


Figure 1-4. CI Survey File Maintenance Window

Enhancements

The following issues have been improved or fixed:

- **Periodic Survey**

- Optimized for faster survey import.
- **Delete Survey** button added to **Options** menu simplifies removing survey files.
- **Upload Survey** button added to **Options** menu for uploading surveys to PCS [[[Undefined variable productsInfo_ai/cn/sm.softwareName]]] via PCS Wireless Sync.



Figure 1-5. Periodic Survey Option Menu

- Import progress indicator added to user interface.

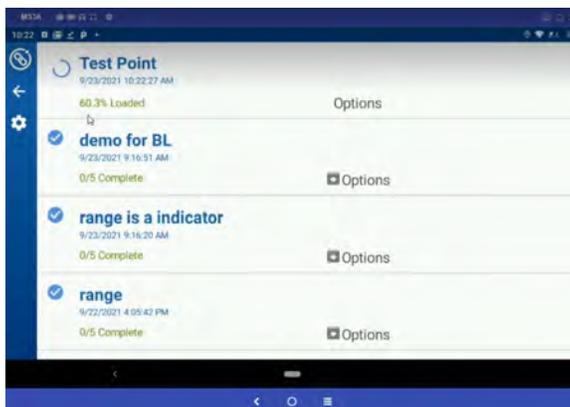


Figure 1-6. Import Progress Indicator

- Upload status logs added to support PCS Wireless Syncing. Includes simplified default view and access to detailed status information.

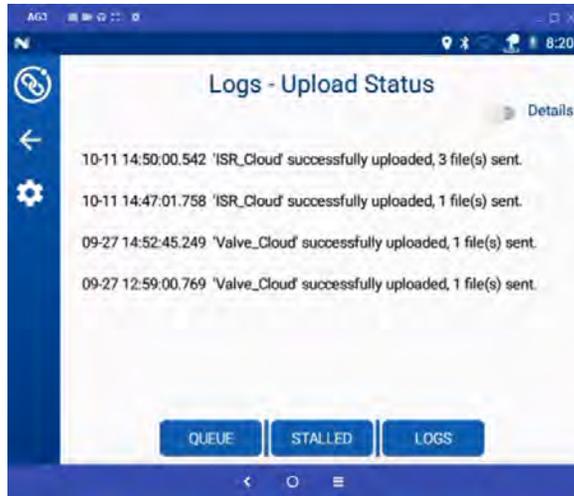


Figure 1-7. Periodic Survey Upload Status Logs

- Site Map button added to site record window.

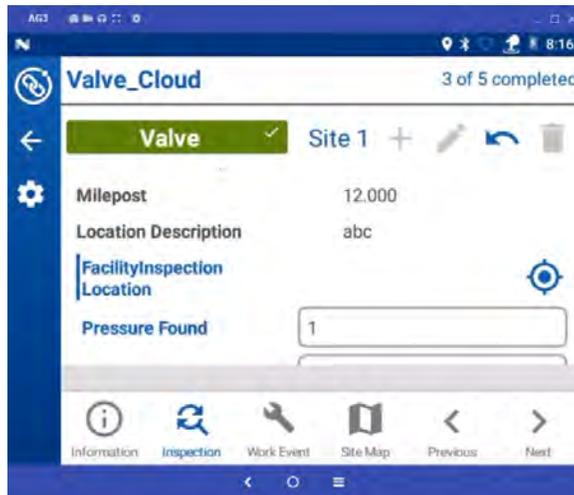


Figure 1-8. Periodic Survey Site Record

PCS Field Data Collector v1.5 Updates

August 2021

More Records Displayed in CI Survey List View

The optimized CI Survey user interface displays more records in **List View**.

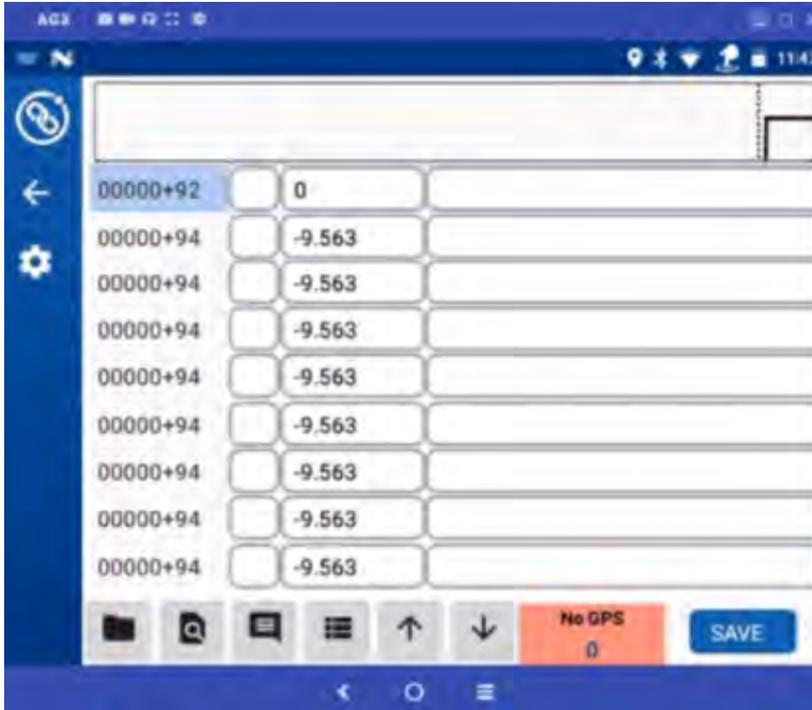


Figure 1-9. CI Survey - Records Displayed in List View

Export CI Surveys as CSV Files

CI surveys can be exported as .csv files without header information.

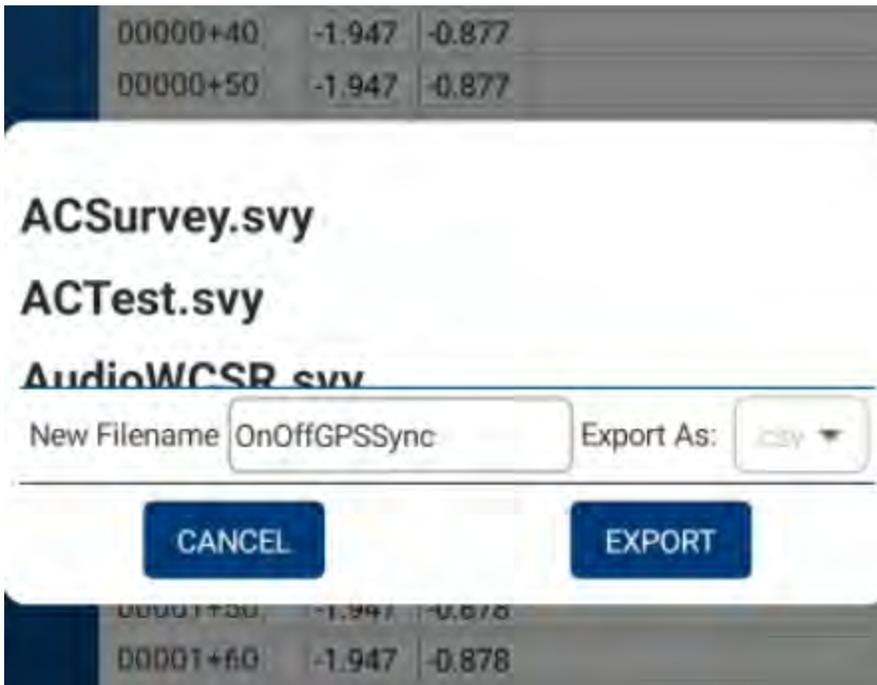


Figure 1-10. CI Survey - Export Options Window

Enhancements

The following issue has been improved or fixed:

- Image descriptions limited to 50 characters for improved functionality when importing into PCS.

PCS Field Data Collector v1.4 Updates

June 2021

New Shortcut Keys

The following shortcut keys were updated or added for use in the CI Survey module.

NOTE: The shortcuts can be used with the Allegro AX or on the Mesa 3 if you are using the external keyboard.

Shortcuts That Can Be Used In Flagged Mode

- Reset Flag count – **Ctrl-F**.
- Go to a record or insert new record – **Ctrl-G** or **F2**.
 - Opens the *Records Options* window () with the cursor placed in the **Go To Or Insert** text field.

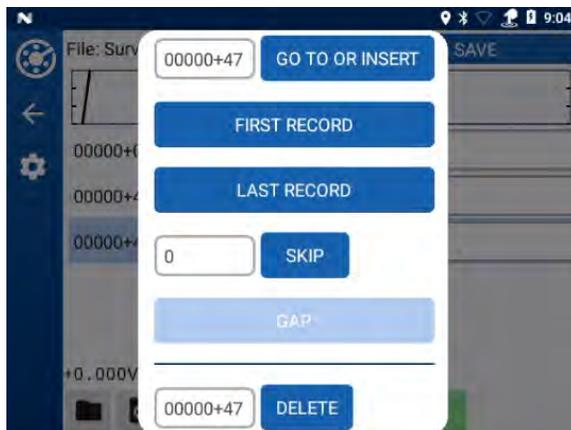


Figure 1-11. Records Window

- Open the *Records Options* window () – **Alt-M**.

- Add Remarks – **Alt-R** or **F4**.
 - Opens *Edit Remark* window ()

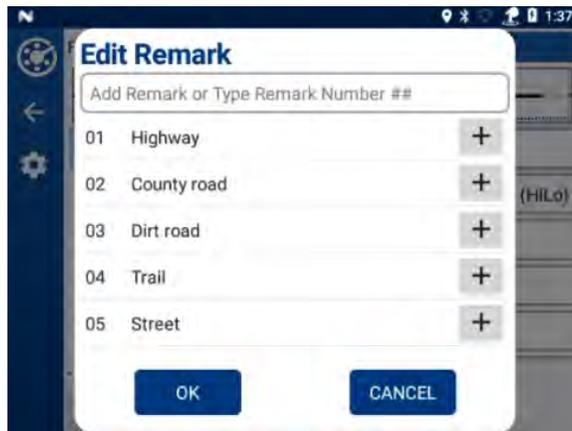


Figure 1-12. Note: Only available in the Fixed Increment mode.

- Pause or resume a timed reading survey – **Ctrl-P** or **F5**.
- Open *Mobile Survey* menu window (file ) – **Alt-F**.

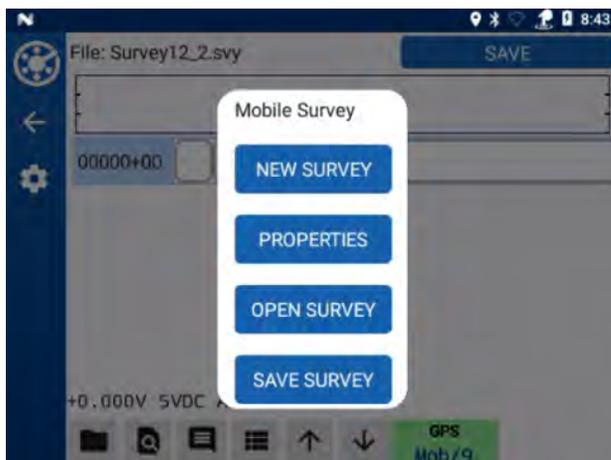


Figure 1-13. Mobile Survey Window

- Toggle between list view and single record view – **Alt-L**.
- Create a new survey – **Ctrl-N**.

- Opens the *Survey Properties* window.

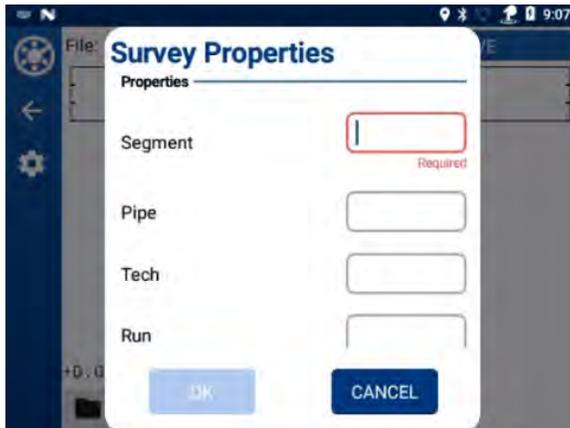


Figure 1-14. Survey Properties

- Open the *Test Points Info* window – Ctrl-T.

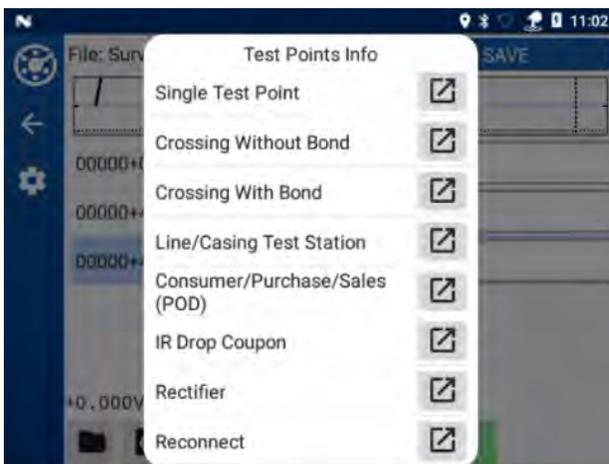


Figure 1-15. Test Points Info Window

Shortcuts That Can Be Used In Fixed Increment Mode

- Skip a distance – **Ctrl-K**.
 - Opens the *Records Options* window with the cursor in the **Skip** data entry field.

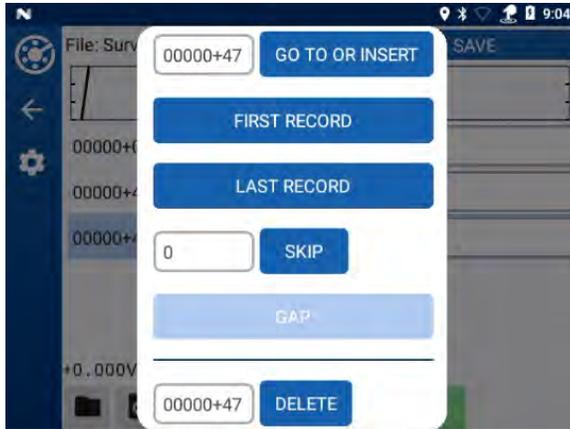


Figure 1-16. Records Window

- Toggle Skip mode on and off – **Ctrl-Z** or **F3**.
 - Window displays (**Skip**) when in that mode.

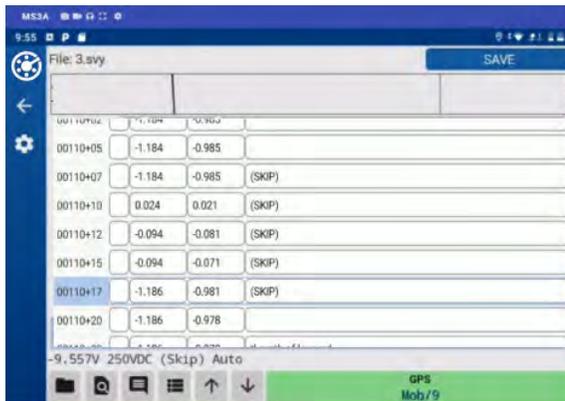


Figure 1-17. Skip Mode On

- Skip is entered in **Remarks** field.
- Used with a wire counter (chainer).
- Toggle Lock mode on and off – **Ctrl-L**.

- Window displays (Lock) when in that mode.

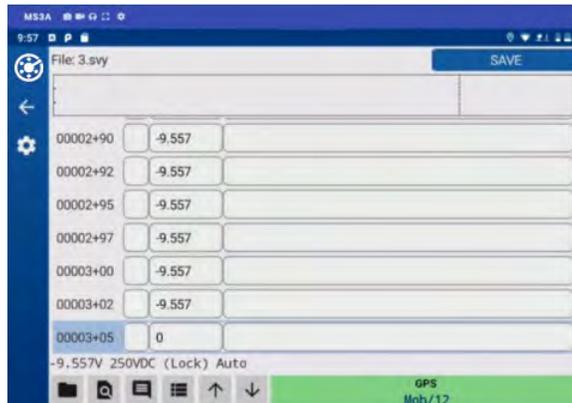
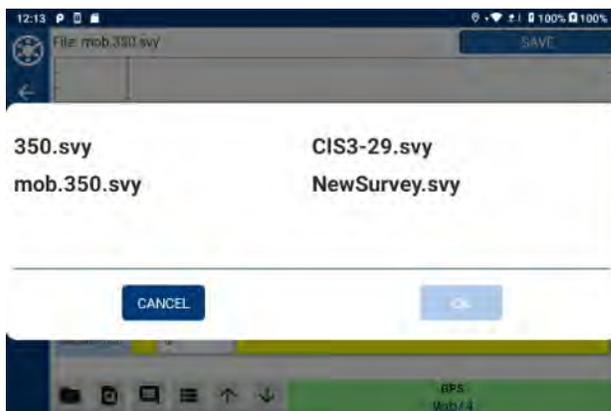


Figure 1-18. Lock Mode On

- No readings are taken in Lock mode.
 - Used with a wire counter (chainer).
- Open an existing survey – **Ctrl-O**.



- Delete a record – **Ctrl-Del**.

- Opens the *Records Options* window with the cursor in the **Delete** data entry field.

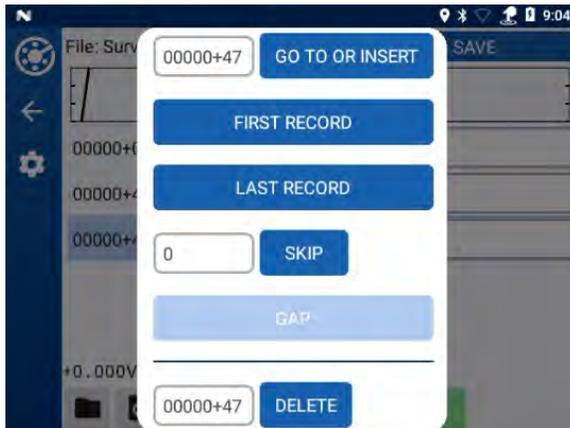


Figure 1-19. Records Window

Enhancements

The following issues have been improved or fixed:

- On the Allegro AX, improved the survey completion process time in Periodic Survey module.
- Improved the display of navigation buttons when switching from landscape to portrait orientation while using the detachable keyboard.
- Improvement to the **Remarks** field that will now scroll as remarks are entered if they exceed the length of the screen. Can tap and hold the field text to move the contents left or right to see all of the comments.
- When logged out of the app, user can still access the *About* window.
- Fixed an issue in the Periodic Survey module with the survey completion process. Process was either not completing while the user was in the module or having issues if the user navigated out of the module.
- Fixed an issue in Periodic Survey module with text field data either cut off or lost.
- Fixed an issue with reading RFID values.

PCS Field Data Collector v1.3 Updates

May 2021

New Audio Options for Readings

The ability to add audio feedback when taking readings in the CI Survey module was added to CI Settings.

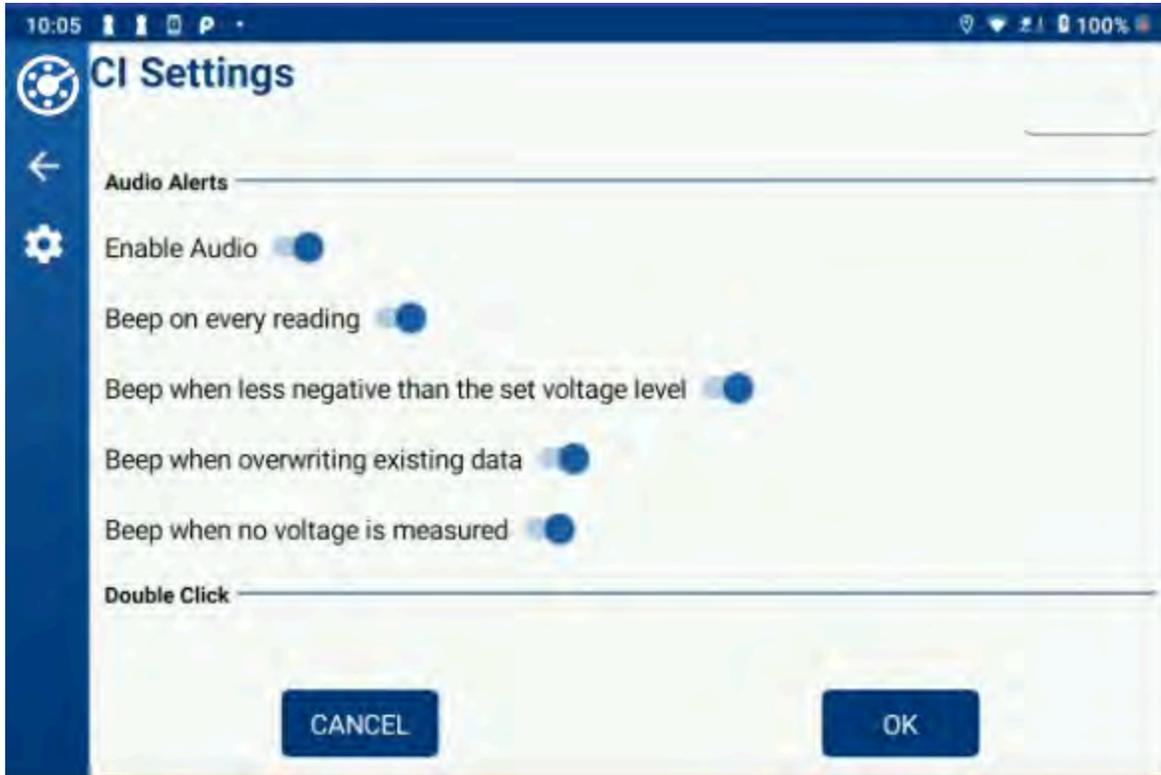


Figure 1-20. Audio Alerts Options

Back Up Data Without Logging Into App

The Disaster Recovery feature can now be accessed without logging into the PCS Field Data Collector app. In the event a user cannot log into the app, data can still be backed up from the Disaster Recovery option under Settings.

NOTE: To restore from backup, the user will have to log into the PCS Field Data Collector app.

Enhancements

The following issues have been improved or fixed:

- CI Survey enhancements:
 - Data is automatically saved if user moves out of the CI Survey module. If a user is in the CI Survey module and leaves the module, data is automatically saved. A user can also tap the **Save** button at any time to save data.
 - Enhanced the app to better measure the distance between the closing gap and the ending flag when a gap is inserted in the flagged mode.
 - Fixed an issue with no GPS displaying in the in GPS indicator when Trimble GPS receiver is not receiving a valid GPS signal (Allegro AX). If the Trimble GPS receiver cannot receive a valid GPS signal, the Allegro AX will use the internal DVM for GPS.
 - Fixed an issue with GPS location data being displayed in the Remarks field. GPS data will no longer appear in the Remarks field.
 - Fixed an issue that while in an AC survey, the DVM configuration was not changing back to VAC after a Test Point Information reading was taken in VDC. The app will now change the DVM configuration from VAC to VDC for all Test Point Information types except AC Potential.
- Periodic Survey enhancements:
 - Fixed an issue with the technician value selected for the technician field if using a technician picklist not persisting from site to site. The technician value selected from the picklist will now carry-over to other sites.
 - Clearing location data from Facility Inspection Location prompt will clear the field completely, leaving no value.

PCS Field Data Collector v1.2 Updates

April 2021

CIS and DVM Survey File Clean Up

The ability to remove Close Interval Survey (CIS) file data and DVM log files was added to the app. The File Maintenance option (in **Settings**) allows a user to remove one or more CI Surveys or DVM files.

When a CIS survey is removed, the survey file (.svy) is removed from the device.

When a DVM file is removed, the .txt and associated image file(s) (.png) are removed from the device.

Add Text Colors in CIS

The ability to customize text color for close interval surveys (CIS) was added. Users are able to select from set colors for text that displays in the CIS module. Examples of text include text entered in fields, the P/S value and the background color for P/S value, and invalid values and the background color for invalid values.

The feature is available from the *CI Settings* window.

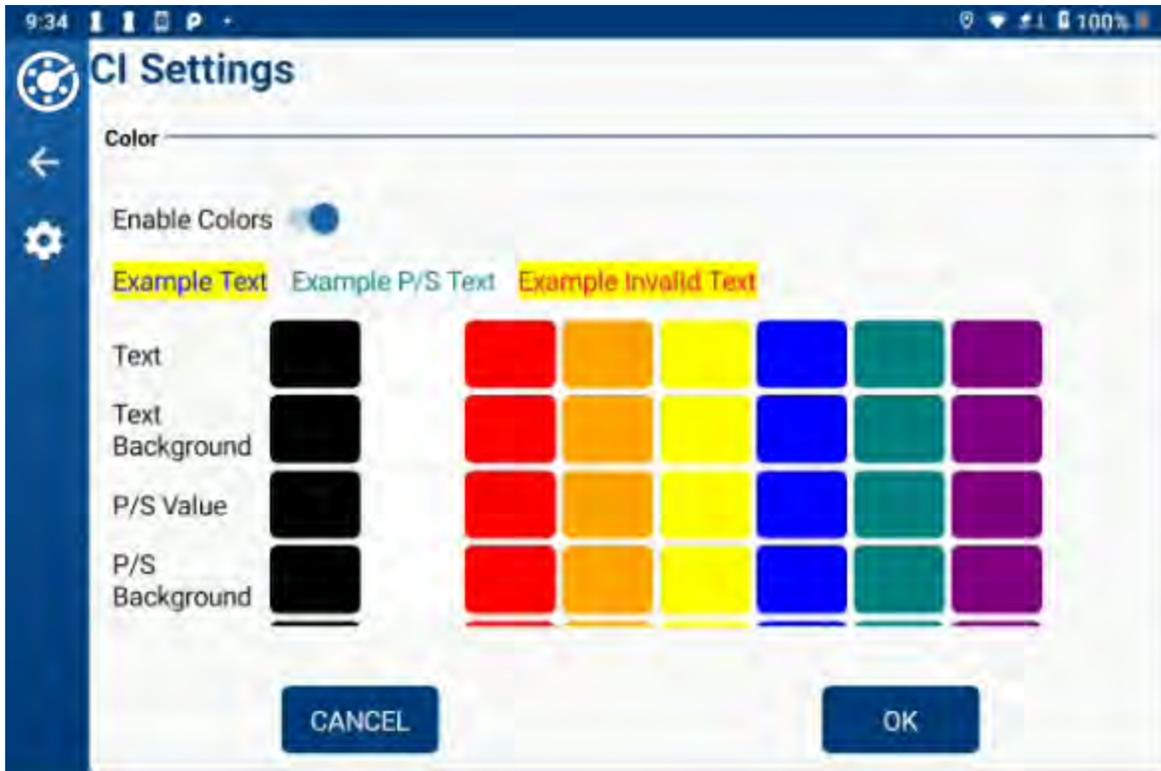


Figure 1-21. Text Colors

Improved Performance

An issue with File Maintenance functionality was fixed.