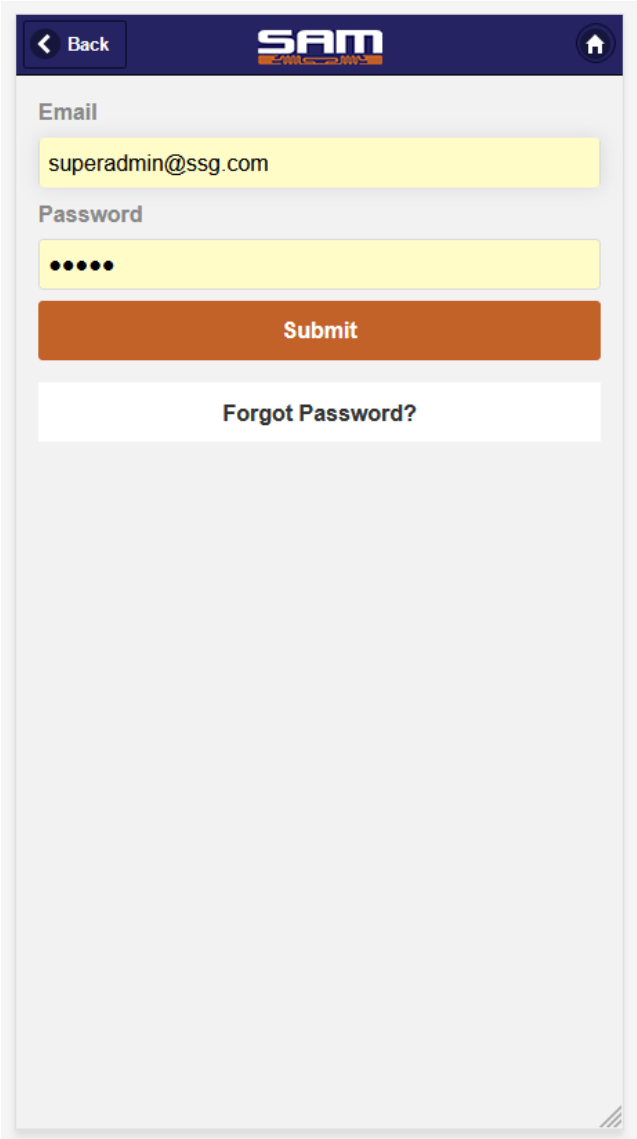
Android Mobile App

User Manual

V 2.4

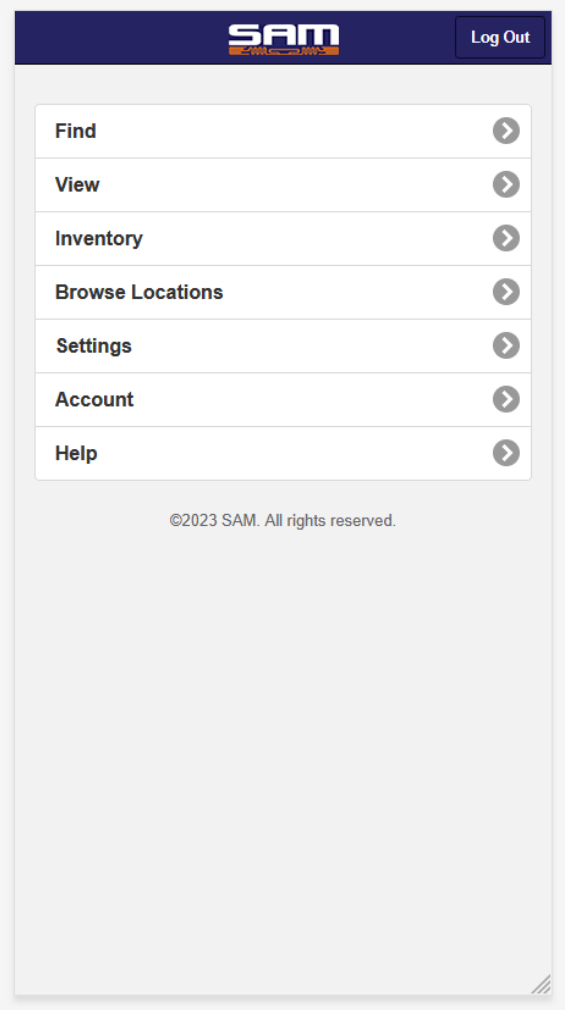
Released 12/03/2023

The SAM Software Android app is accessed using the SAM credentials provided to access the web application. Simply enter your account information at the login screen.



Once logged in the user credentials will provide access to all records types to which the user is assigned access permissions. Actions on the record inventory are also governed by the user permission level.

The User Menu is displayed first



At Login simply select the function you would like to use by tapping the screen.

Back Button - this will act like a Browser's Back button and will return the user to the previous screen accessed.

FIND – This function will allow a user to access the RFID or barcode scanner function to locate all items within a read field (RFID) or to scan barcodes.

VIEW – The view function will access all of the Records within the Record Type selected.

INVENTORY – The inventory function will provide the user to collect tag or barcode information in a specific location and perform functions based on what is in a location and functions to edit, report or list them.

BROWSE LOCATIONS – This will list all LOCATIONS in the RMS and display a count of items in those locations. A user may view the items or perform an INVENTORY on the LOCATION.

SETTINGS – This will allow a user to set the application settings to the read type and reader used

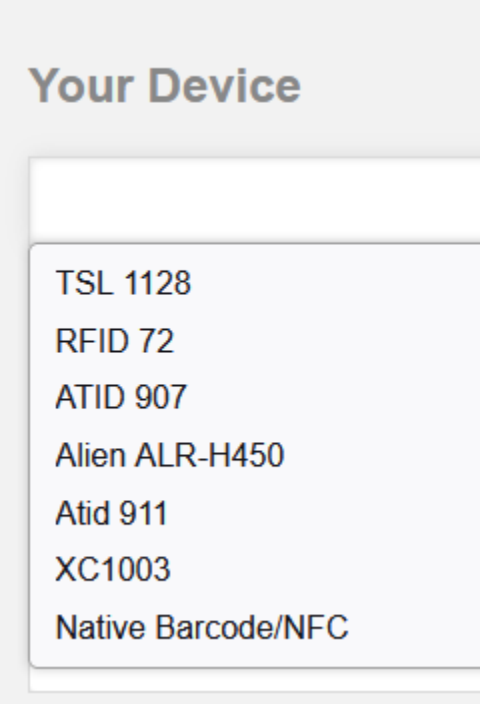
ACCOUNT – This will display the user account information and database URL for app use.

HELP – This will provide in-app help for app functions.

The SAM Software Android mobile app will work with specified devices in settings. To use the app, identify the device you are using. Select that device and determine if you want to read RFID tags or scan barcodes.

SETTINGS

The SAM Mobile app supports multiple devices, select your device type



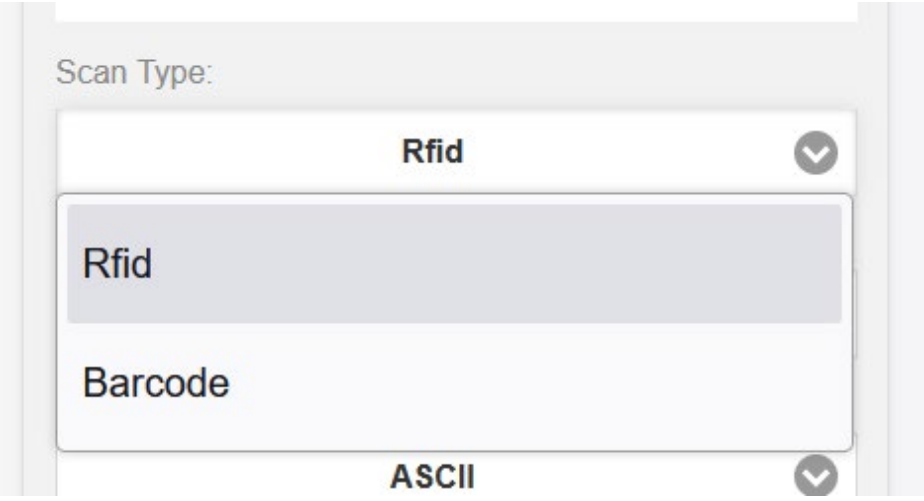
From this menu, select your device. If you are using an Android mobile phone or tablet select Native Barcode/NFC.

Your device will ask for permissions to use the CAMERA as an imager. This allows for the reading of barcodes on devices without a fixed barcode scanner.

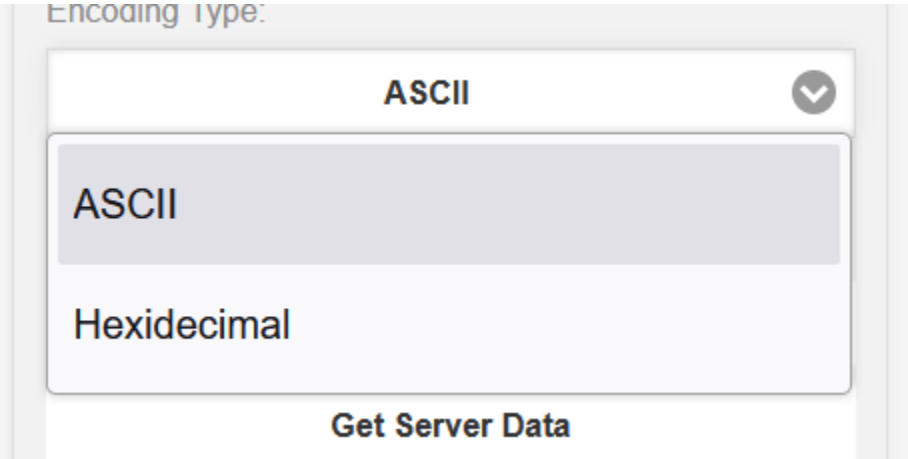
If you are unsure of the device type, you can simply locate the serial number plate on your handheld and your make and model number will be displayed there.

Chainway Readers are all supported under RFID 72 Device Selection

Select whether you will scan RFID tags or Barcodes

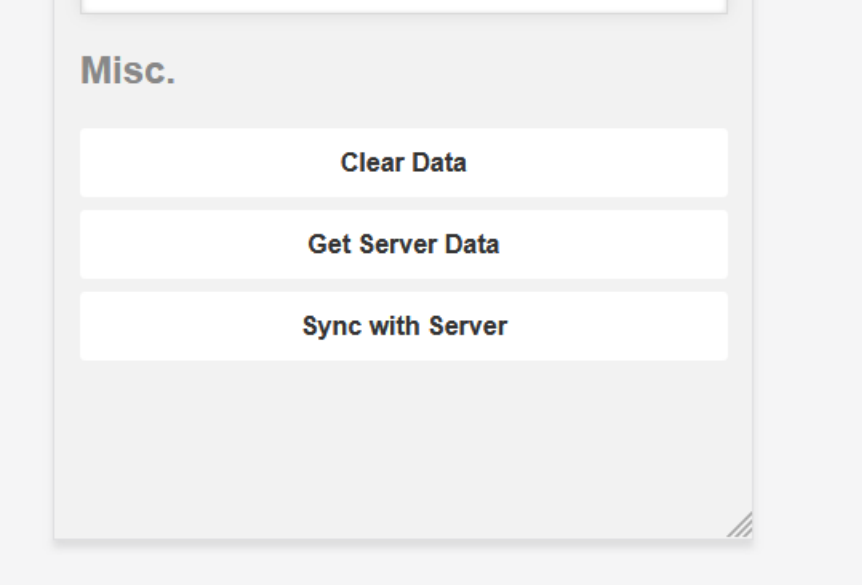


Select the TAG Encoding Type (default is typically Hex)



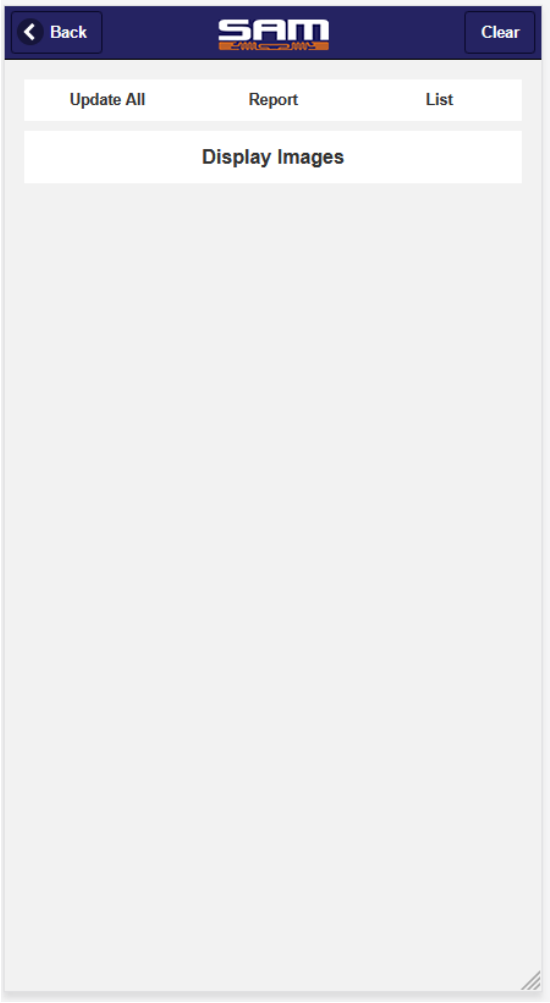
By Default the Device and the APP will remain connected to the remote server via Wifi or SIM Card (if equipped). However, if the device loses connectivity to the host during tag or scan operations, these buttons will manually resync the device.

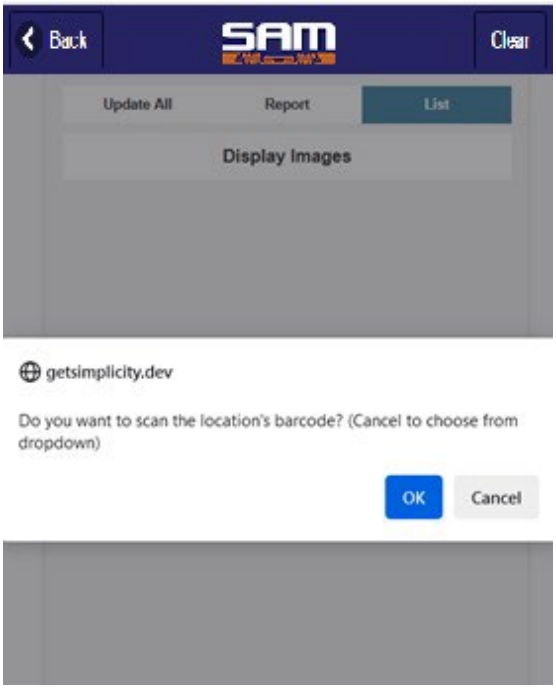
It is important to remember that the device will default to WiFi or SIM card connectivity which means that if the connection is dropped any operations on the device will cache to the app and automatically resync once the Wifi or SIM is reacquired.



FIND -

The FIND Function will open to a blank screen. Once the SCAN is initiated (either RFID or Barcode) a list will populate showing the scanned records.





As you scan RFID tags, all tags in the field will populate this screen. For barcode mode, as you scan individual barcodes, these will list.

Once this list populates with all tag and barcode reads at the subject location, you many choose to do one of 3 things

Update All – This will update all items within the field of read or the barcode scans to the Location of your selection.

Report – If you are compiling Reports by Location, you may compile these to a Report from this screen

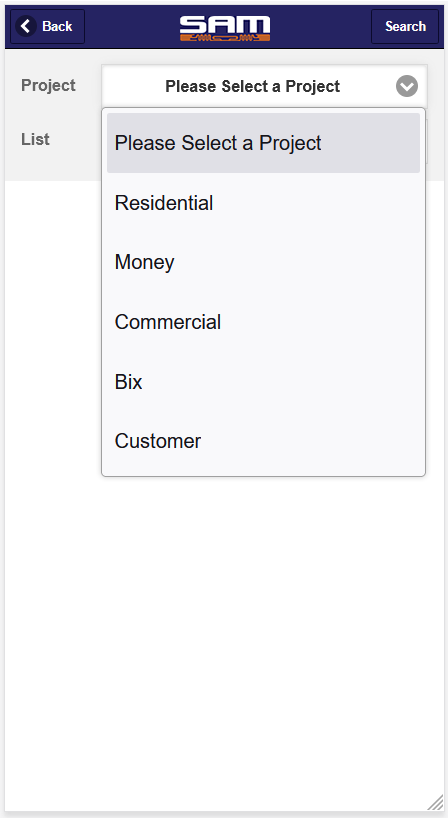
List – If you are making a List of items in a location but do not wish to update them, you may select this list to capture the location inventory at the time of scan for future operations.

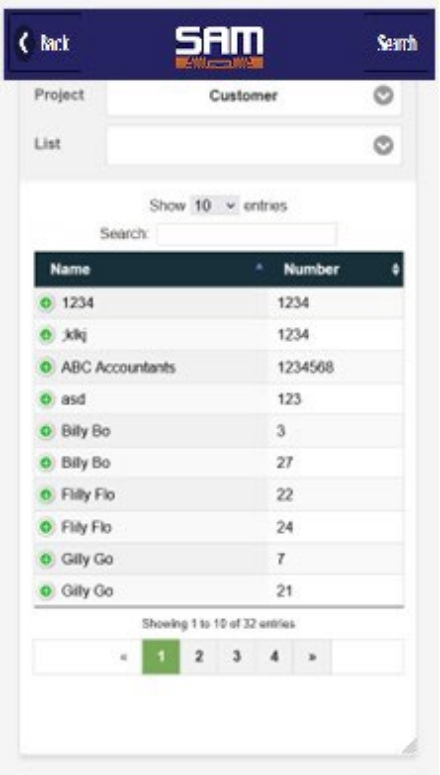
For the UPDATE ALL function you will be asked to provide a barcode scan of the location (if you have a barcode sheet that has LOCATION DATA listed. Simply scan the barcode on the sheet and all items read will update to that LOCATION.

If you select choose from dropdown, then the LOCATIONS specified in the RMS will open as a menu and you can select the LOCATION from that menu.

It is important to remember that regardless of where the RMS shows any records in this to be, UPDATING ALL will supersede any automated process or RFID fixed reads and remedy the location to the present selection.

VIEW –





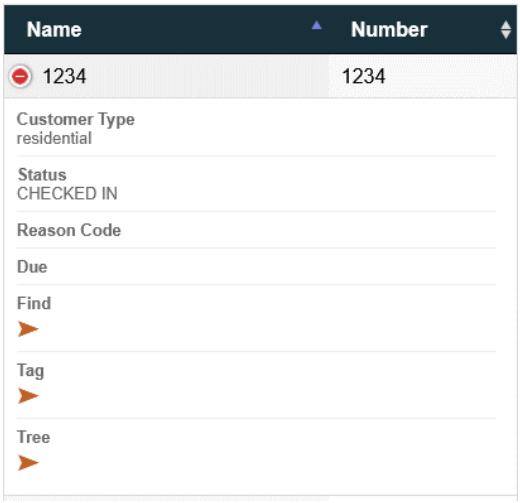
The VIEW function in the mobile allows a user to see all records within all record types accessible based on that user's permissions.

If you have multiple types of records that you are managing, the select menu will display all records to which your user has access.

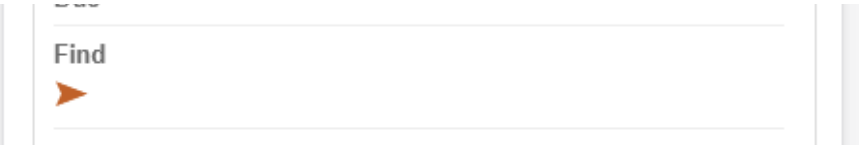
Simply select the record type you'd like to view. The VIEW function also provides access to any LISTS you may have created in the RMS. Eg, if you have a LIST of records that you need to locate, then simply compile that LIST in the RMS and use the handheld for remote operations.

Whether you are working with the full RECORD Inventory or selecting a list you have created, the VIEW screen will allow you to fully visualize all record data and provide functions at the record level.

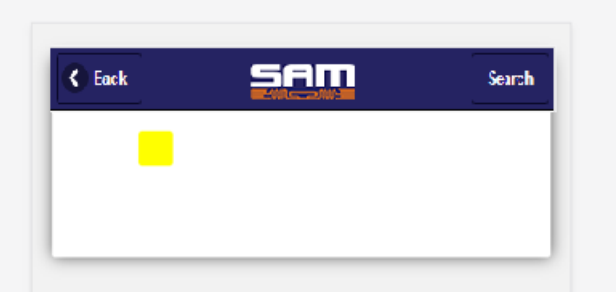
- Pagination (show variable number of records based on Show Entries selection).
- You may enter a search term that may be contained within the record data displayed to locate anything specific.
- In the main display the metadata fields for the record are displayed horizontally.
- Press "+"



This will open the pane to view more data and functions.



This will open the range finder. The range finder is now looking for only the item you have selected. It will open as a visual scale and will also load an audible cue.

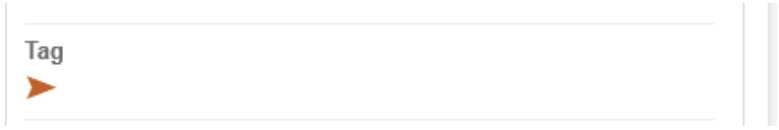


The range finder is useful if you know a record's general location. However, it may be interspersed with other records, under a desk, behind a bookcase or it may simply be so much in like appearance to dozens of other items that you need a visual and audible cue to locate it.

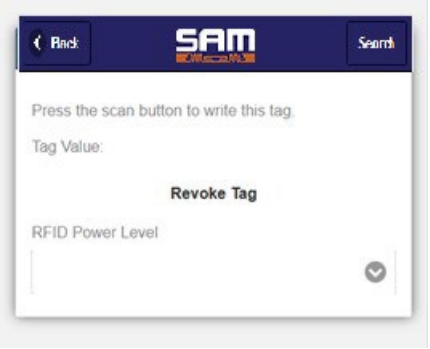
The range finder will change color and vary an audible cue the closer you get to a tagged item.

The average read range of UHF RFID handheld devices will vary, however they are useful generally at 12 to 15 feet. Once the tag is with the field the range finder will help you narrow its exact location.

Select TAG



This will open a window to write a new tag for an item or revoke an existing tag.



This is useful if you have an item that has a damaged tag. If you can remove the existing tag and replace it, then at the point of accessing the item you can do this immediately with the handheld.

If you are disposing of tagged items and the tags are still useful (some tags are removable and reusable, you can revoke the tag value from the tracked item and return it for use elsewhere.

The RFID power level setting ensures that you can vary the antenna strength for these type of tag operations.

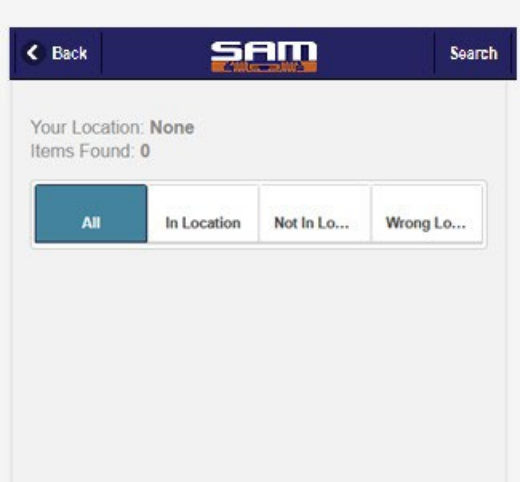
TREE

If the tagged item is part of an assembly of other items, eg a child object or assembly to a parent tracked or untracked item, the TREE will display the item in VIEW and it's location within whatever parent/child relationships may exist.

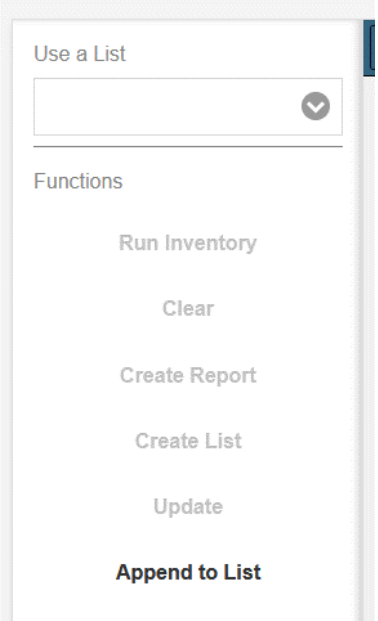
Eg, if 1 item is part of a batch of items then the item TREE will display this in both directions.

INVENTORY

When you select INVENTORY a blank screen will display



As you scan the tags will populate the screen. Once the zone has been fully read, selecting the Gear Icon in the far upper right will open a flyout with inventory functions.



An inventory may be performed from a pre-defined list, this may be a list made from the last inventory or it may be a cycle count or simply a determined list of items for which an inventory is required.

If you have populated such a list, load it from the LIST dropdown.

If you are inventorying an area, then on scan of the zone where tags are located you may perform multiple operations.

Run Inventory – This will read through the tags in zone and determine each tag's state based on

- All Tags Read
- Tags expected in the Location that are in the Location
- Tags that were expected to in the Location that are not
- Tags that are not expected to be in the Location but are read as being there

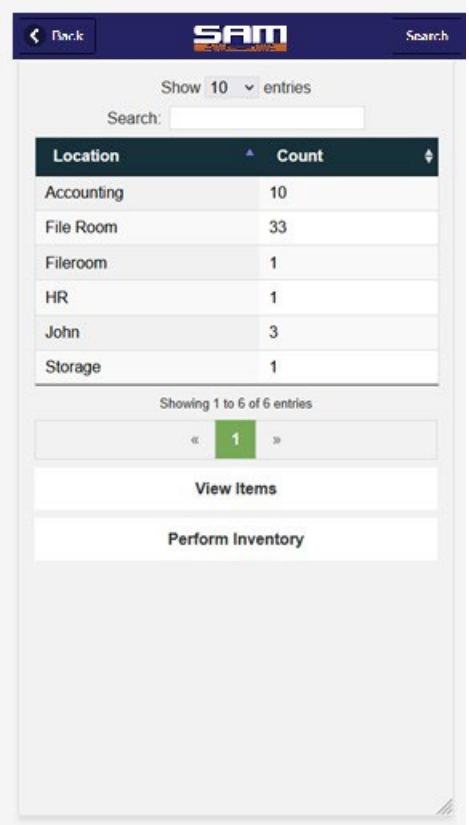
From here you may operate any of the variables by

- Creating a Location Inventory Report
- Creating a List of the Inventory Results
- Updating assets to the Current Location
- Appending your list with the latest Location Inventory

By Default the Inventory function will read through tags and by a preponderance of the metadata and the Location data the app will decide where it thinks you are and ask if you are in Location "X". If you are in that location, affirm the Location if you are not, you may manually select a Location.

BROWSE LOCATIONS

Another method of performing an inventory is to simply BROWSE the LOCATIONS in the SAM

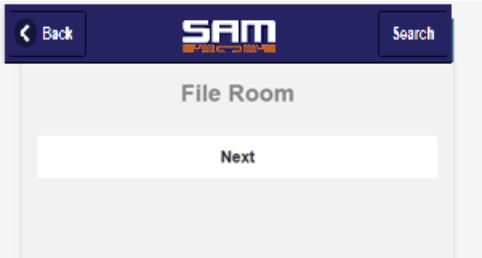


Browse Locations will display all of the LOCATIONS in the RMS with a count of items assigned to them.

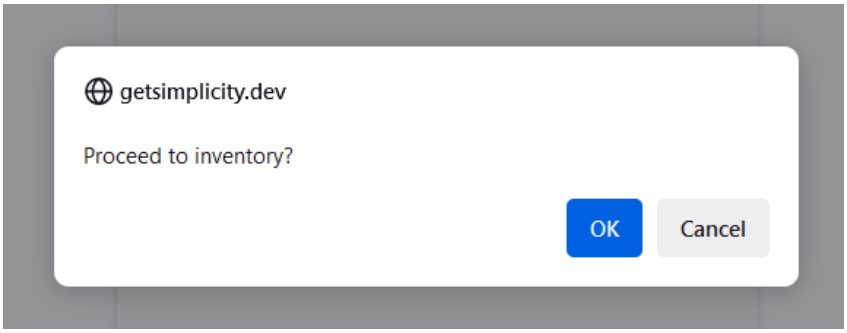
View will open the location.

From here you can manually assess the location contents by viewing the items and visually verifying their presence.

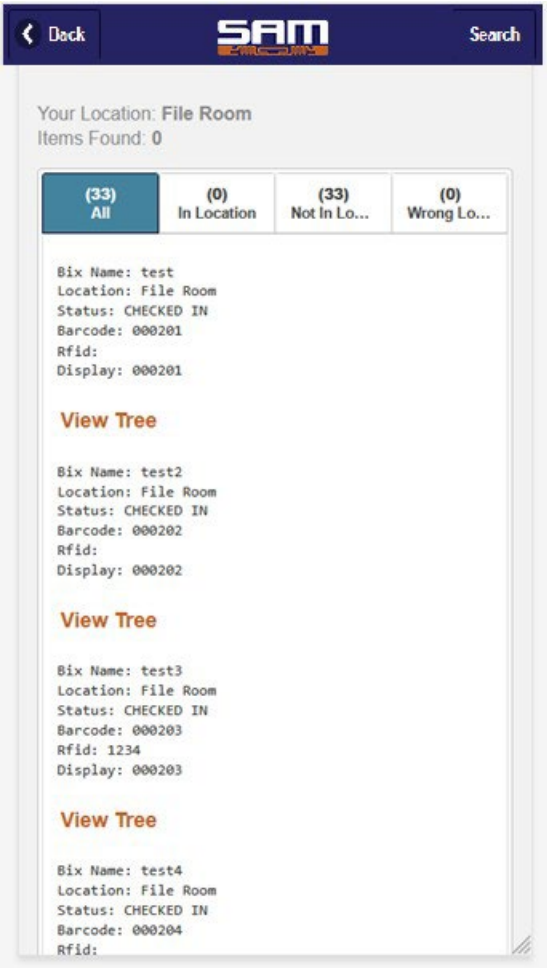
Most probably you'll perform an inventory on the Location. Click Perform Inventory, then Next.



You will be asked to proceed or not



OK will take you to the inventory function with you predefined location filled



Conclusion

The Simplicity Android Mobile app will assist in your remote items operations. Screens available will reflect your user level and the exact configuration of your Record Types and projects.

If you require assistance in configuring a project to optimize the mobile app, this can be done as the project is set up for mobile intensive environments, where most tracking functions will occur on the mobile platform.

Mobile views may also be customized with your SAM instance to assist you in smooth remote operations.