

TCTrak Plant Tissue Culture User Manual 2nd Sight BioScience 823 N Crestline St Spokane, WA 99202 main office: 509-381-2112 24/7 support: 509-559-2240 info@2ndsightbio.com www.2ndsightbio.com

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Table of Contents

GENERAL INFORMATION	
INTRODUCTION	
System Requirements	
RHC	
Customer Portal Account	
TERMS AND DEFINITIONS	
INSTALLATION	
UNPACKING AND INSPECTION	
UNPACKING THE BOX	
DATA UPLOAD TO CUSTOMER PORTAL	7
TCTRAK APP TRAINING	
General	
LAUNCH THE APP	
CONFIGURATION	
Initial Application Setup	
SYNCING DATA WITH CUSTOMER PORTAL	
SETTING UP INFORMATION	
Tasks	-
Lists	
INITIAL INVENTORY IN	
GENERATE	
TRANSFER	
IN	
OUT	
INSPECT	
ERRORS & TROUBLESHOOTING	
Error Messages	
Unknown Parent Node(s)	
Unknown Node(s)	
Unknown Destination Location	
Unknown Source Location	
Multiple Parent Group	
Multiple Node Groups	
No WiFi	

GENERAL INFORMATION

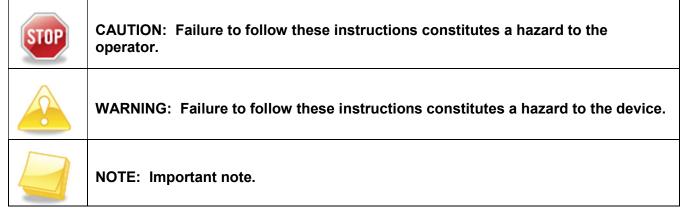
Introduction

Thank you for purchasing TCTrak. TCTrak is an electronic inventory management logging system.

This manual provides information to users about the safe and optimal operation of TCTrak.

For your safety, it is critical that you carefully read and follow all warnings and cautions in this manual. TCTrak must only be used in the manner for which it is intended. Any other use of the TCTrak may cause damage to the device and harm to the user.

The following signs call attention to special warnings and cautions.



STOP	CAUTION: Electric shock hazard. This equipment is to be serviced by trained personnel only.	<u>/</u>
STOP	CAUTION: Pinch point, keep hands clear.	
STOP	CAUTION: Heavy, team or mechanical lift.	<u><u></u></u>
STOP	CAUTION: Sharp edges, handle with care.	

System Requirements

RHC

- Size: 162 x 80 x 26 mm
- Weight: 330 g
- Power: Replaceable and rechargeable 3.8V 4000 mAh Li-ion battery
- Operating Temperature: -20°C to 50°C / -4°F to 122°F
- Humidity: Operating 10% to 90% / Storage 5% to 95%

Customer Portal Account

Secure website where user manages account information, settings, and data. Web address: <u>http://portal.2ndsightbio.com</u>

TERMS AND DEFINITIONS

Term	Definition	
Charging Cable	Cables used to provide power to the Weighing Station .	
Clock-Out Receipt	Printout of Picker's total weights for the day registered on one Weighing Station .	
Configuration Card	Radio-frequency identification (RFID) card used to program a Weighing Station with specific settings such as language, time zone, container tares, and tracking features.	
Container	Any receptacle used to hold, transport, and carry fruits, vegetables, or produce.	
Container Label or Container Card	Radio-frequency identification (RFID) sticker that attaches to a Container or RFID card for identification and tracking purposes.	
Crew Boss	A person in supervisory charge of Picker(s) who is given the ability to program Weighing Station with Configuration Cards and upload harvest data.	
Customer ID	A unique code used to identify a company in the 2 nd Sight Customer Portal.	
Customer Portal	Secure website where users enter harvesting information, manage employees, view uploaded data, and download data and reports. Customer Portal web address: <u>http://portal.2ndsightbio.com</u> .	
Customer Secret	A unique code used to identify a company in the 2 nd Sight Customer Portal.	
Data Bucket Card	Radio-frequency identification (RFID) card used to initiate wireless data transfer from a Weighing Station to an RHC (Ruggedized Handheld Computer). Data transferred to the RHC uploads through the 2nd Sight Router to 2 nd Sight Servers.	
Employee Badge	Radio-frequency identification (RFID) card assigned to an employee.	
2 nd Sight Icon	Image shortcut that launches the Registration Station or other 2 nd Sight apps.	
Ruggedized Handheld Computer (RHC)	An Android-based device that runs 2 nd Sight apps such as the Data Bucket app for transferring data from the Weighing Station to a location with Wi-Fi connectivity.	
RHC Charging Dock	A cradle that charges the battery of RHC devices.	
Leveling Mechanism	A FairPick Pro Rugged feature. Adjustable knob that allows the Scale Platform to tilt left or right on uneven surfaces, ensuring accuracy of recorded weights.	
Lid	Plastic cover used to protect the Electronics Box on the Weighing Station .	
Lid Latches	Locking mechanisms used to secure the Weighing Station Lid to protect the electronics.	

Password	A secret word or phrase that must be used to gain access to administrator functions on the Customer Portal and Registration Station application	
Picker	Person who harvests fruits and/or vegetables.	
Power Button	Button that turns devices on and off.	
Registration Station Application	2 nd Sight software used to program Employee Badges and Container Labels, as well as create Upload Cards and Data Bucket Cards .	
Registration Station Computer	A desktop computer that runs the Registration Station Application	
RFID Reader/Writer	USB attachment on the Registration Station Computer that reads and writes data to radio-frequency identification (RFID) cards, bracelets, and labels.	
Router	The Access Point (AP) through which harvest data uploads to the secure server and Customer Portal.	
Scale Platform	The metal cover that sits on top of the scale on the Weighing Station on which Pickers set harvesting Containers to measure the weight of produce.	
Stabilization Foot	Adjustable, threaded foot used to steady the Weighing Station on uneven surfaces.	
Upload Card	Radio-frequency identification (RFID) card used to initiate wireless data upload from a Weighing Station through the FairPick router, to the 2 nd Sight Server.	
Username	An identification code used to access administrator functions on the Customer Portal .	
Weighing Station	Portable field unit Picker(s) use to weigh fruits and/or vegetables.	

INSTALLATION

Unpacking and Inspection

Unpack the boxes and examine their contents. If anything is missing or damaged, contact your 2^{nd} Sight sales representative at 509-381-2112 or at <u>info@2ndsightbio.com</u>.

The standard TCTrak package contains:

Sales Part#	Part Description	Quantity
FT00014	2nd Sight RHC-RS50	1
SW00010	TCTrak App	1

*Quantity depends upon customer order.

Unpacking the Box

- **Step 1** Carefully open the top of the box by using a box cutter or utility knife.
- **Step 2** Remove the accessories box and place it in a safe location.

Data Upload to Customer Portal

Upload weigh data directly to the secure server, through Wi-Fi or cellular connection.



NOTE: You are not required to upload the data every day. Data will remain on the RHC's SD card and flash memory, even after an upload. This ensures data security and integrity.

- **Step 1** Transport the RHC to the designated location within range of wireless internet access.
- **Step 2** Power on the RHC and start the TCTrak app.
- **Step 3** Press the "SYNC" button.
- **Step 4** The app will indicate that data upload has been initiated.
- **Step 5** When the data finishes uploading, the screen will display a success message.



NOTE: The RHC needs to be in range of Wi-Fi with Internet access. If the message screen says, "Failed" you may need to move the RHC closer to the Wi-Fi. Follow the previous steps to retry the data upload.

TCTRAK APP TRAINING

General

The TCTrak app allows the user to collect Task data using the RHC. It is an Android-based app available on the Google Play Store. A 2nd Sight Customer ID and Customer Secret are required in order to initially download the app on the RHC. 2nd Sight issues a Customer Certificate with the purchase of a TCTrak system with these credentials. Contact 2nd Sight BioScience if you are unable to locate your Customer Certificate. Once the TCTrak app is downloaded onto the RHC from the Google Play Store, the app automatically updates with any new versions posted by 2nd Sight BioScience when the RHC connects to a Wi-Fi network. For more detailed information and instructions about using the RHC, refer to the RHC User Manual.

- Step 1 Power on the RHC
- Step 2 Unlock the screen by pressing and sliding the circle to the right
- Step 3 Locate the Google Play Store icon



Step 4 Select Search



- **Step 5** Click inside the search box and start typing "TCTrak"
- Step 6 Press enter.
- **Step 7** Verify that the app is the TCTrak app by 2nd Sight BioScience
- Step 8 Press install.



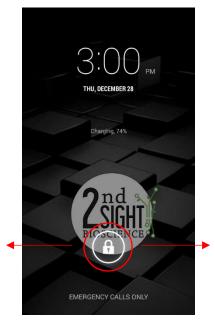
NOTE: In order to access the Google Play Store, the user needs to have a Google account. For instructions on how to create a Google account, refer to RHC User Manual

Step 9 Enter your Google account credentials

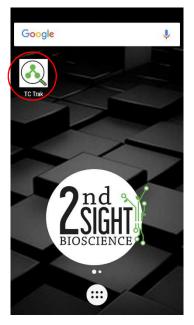
Step 10 Enter the Customer ID and Customer Secret to finish setting up the TCTrak app

Launch the App

- Step 1 Power on the RHC
- **Step 2** Unlock the screen by pressing and sliding the circle to the right or left.



Step 3 Press the app icon to launch the app.

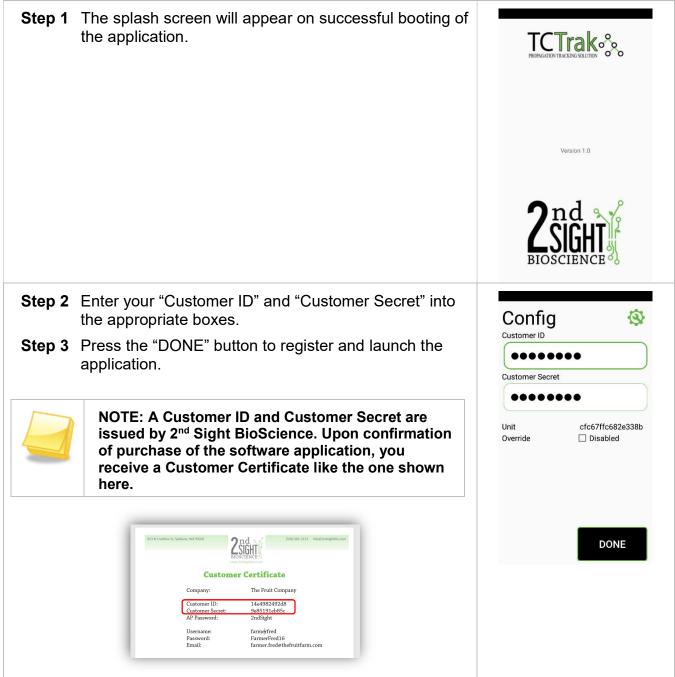


Configuration

The Configuration ("Config") screen shows important account information that indicates to which Customer Portal account the RHC is linked.

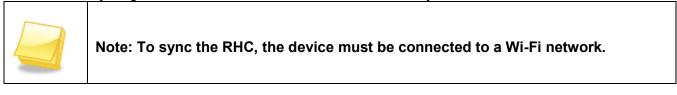
Initial Application Setup

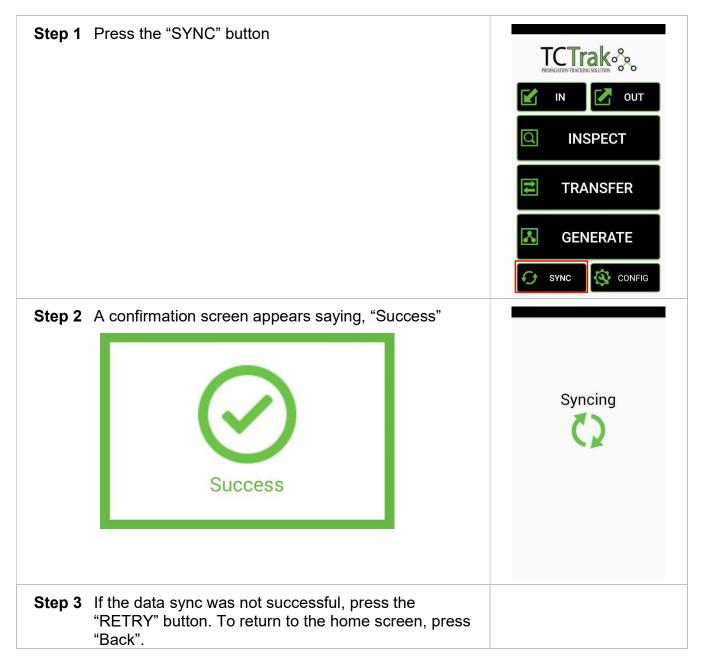
Registering the RHC allows the device to connect and share information with the Customer Portal.



Syncing Data with Customer Portal

By pressing the "Sync" button, the TCTrak app is looking for new Tasks and Lists added to the linked Customer Portal account, as well as pushing any new data collected on the RHC up to the Portal for viewing and data processing. 2nd Sight recommends syncing the RHC before each work day begins as well as at the end of each work day.





Setting Up Information

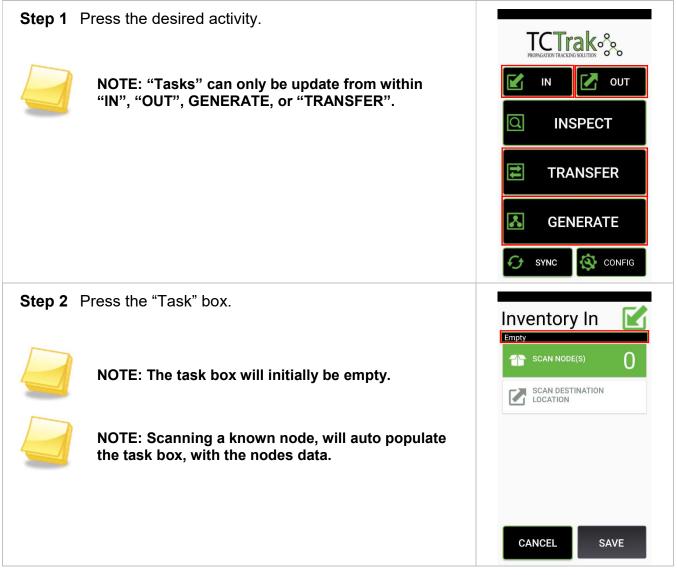
Settings and information can be configured for your process including tasks and associated lists.



NOTE: Tasks and Lists are created on the Customer Portal. (see Customer Portal User's Manual).

Tasks

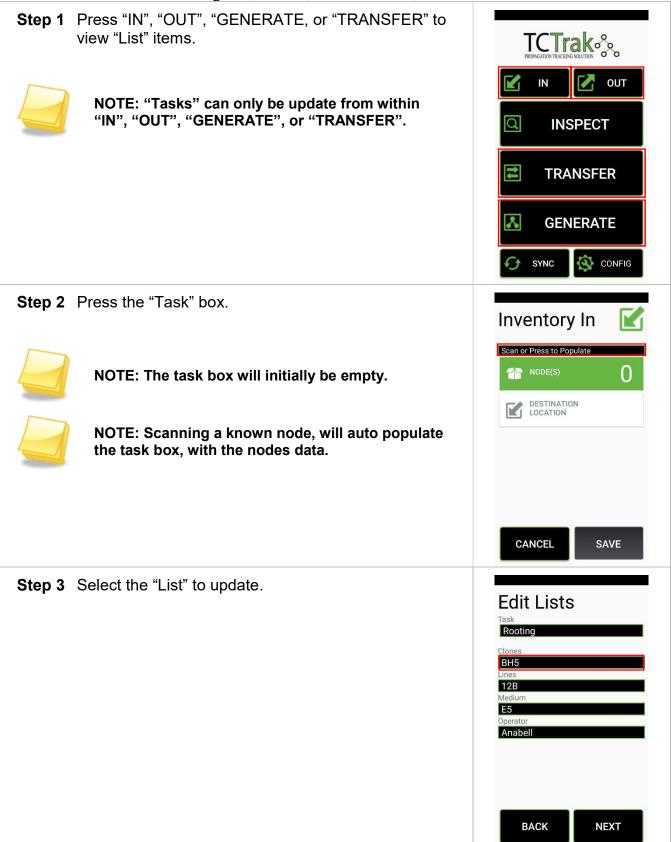
Tasks can be configured from within the In, Out, Transfer, and Generate activities.



Step 3 Select the current task.	Edit Lists Task Rooting Clones BH5 Lines 12B Medium E5 Operator Anabell
	BACK NEXT
Step 4 Select the new task. Rooting Proliferation Elongation Overlay Induction	Edit Lists Task Proliferation Clones Geneva 214 Lines 1B Medium AP! Operator Elisa
Step 5 Press "NEXT" to save.	BACK
Step 6 The task box will be updated with the appropriate information. Proliferation Clones: Geneva 214 Lines: 1B Medium: AP! Operator: Elisa	Inventory In Proliferation Clores: 18 Medium: AP! Operator: Elisa MODE(s) CANCEL SAVE

Lists

List items can be altered during "IN", "OUT", "GENERATE", and "TRANSFER" events.

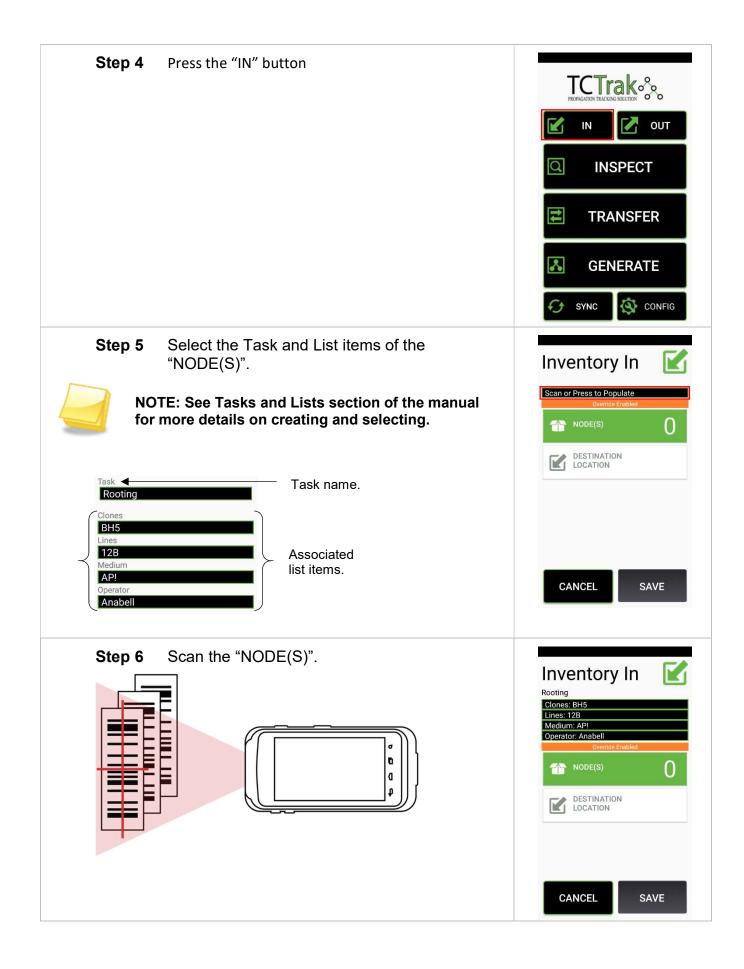


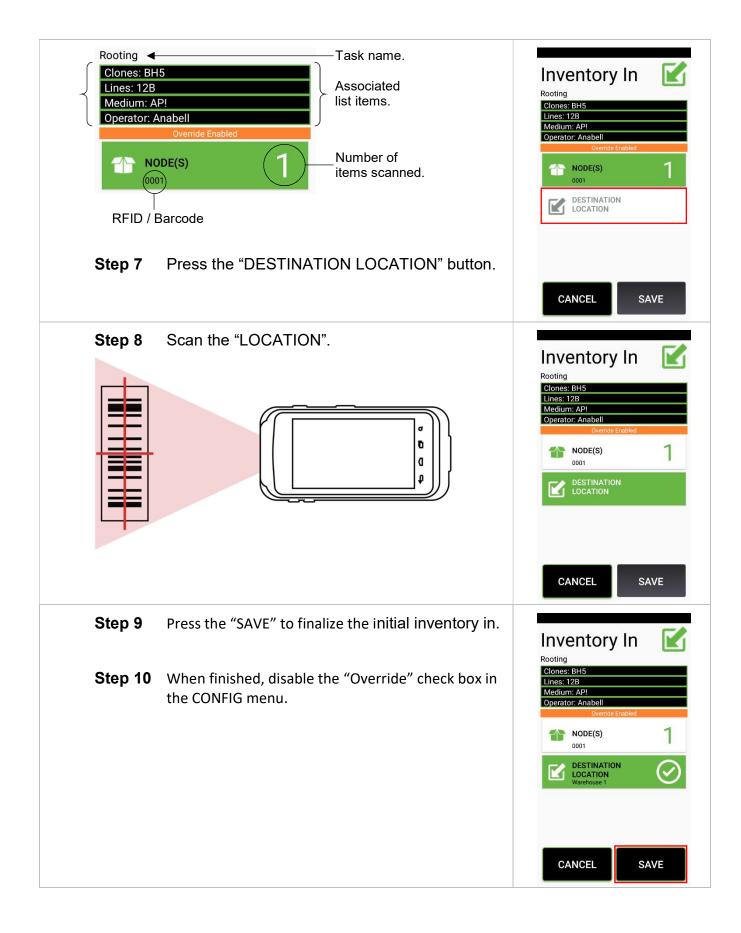
Step 4 Select the desired "List" item.	Select Item
Optional: Use the search bar to find List Items.	Select Item BH5 Colt Geneva 202 Geneva 210 Geneva 214 Geneva 41 Geneva 890 Geneva 935
	Geneva 969 CLOSE
Step 5 Press "NEXT" to save.	Edit Lists Task Proliferation Clones Geneva 214 Lines 1B Medium AP! Operator Elisa BACK NEXT
Step 6 The task box will be updated with the appropriate information. Proliferation Clones: Geneva 214 Lines: 1B Medium: AP! Operator: Elisa	Inventory In Proliferation Conces: Geneva 214 Lines: 1B Medium: AP! Operator: Elisa Mode(s) NODE(s) DESTINATION DESTINATION DESTINATION CANCEL SAVE

Initial Inventory In

Once your products have been defined, it is time to make your initial inventory in.

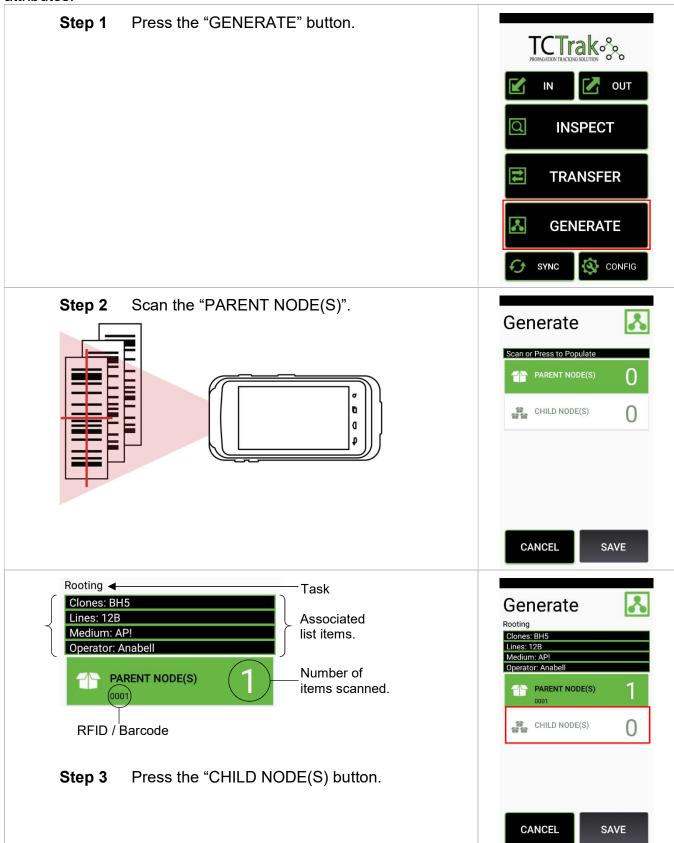
<u> </u>	,	2	J
Step 1	Press the "CONFIG" buttor		IN IN INSPECT INSPECT
Step 2	Select the "Override" check	s box.	Config
Override	Enabled		Customer Secret Unit cfc67ffc682e338b Override Disabled DOVERTING
Step 3	Press "DONE" to return to t	he main menu.	Customer ID ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

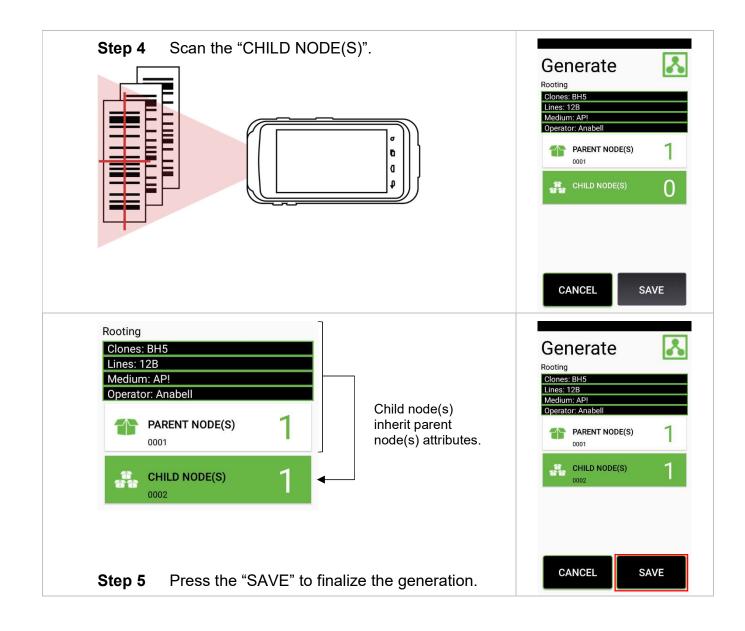




Generate

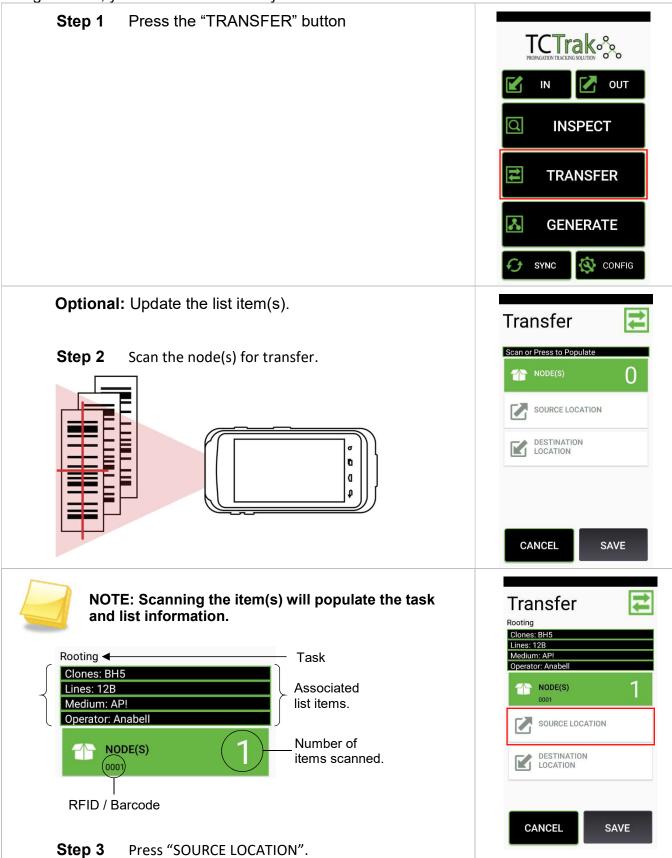
Using generate, create child nodes from parent nodes. Child nodes will inherit parents' attributes.

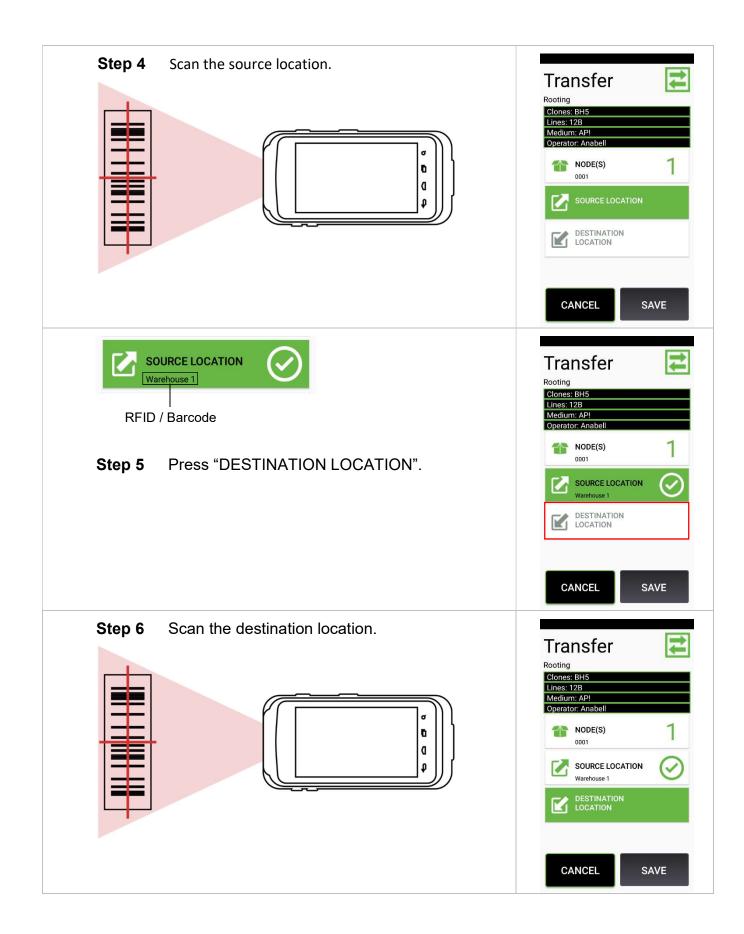


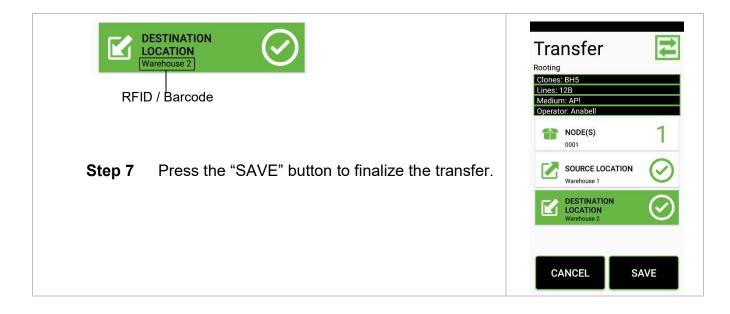


Transfer

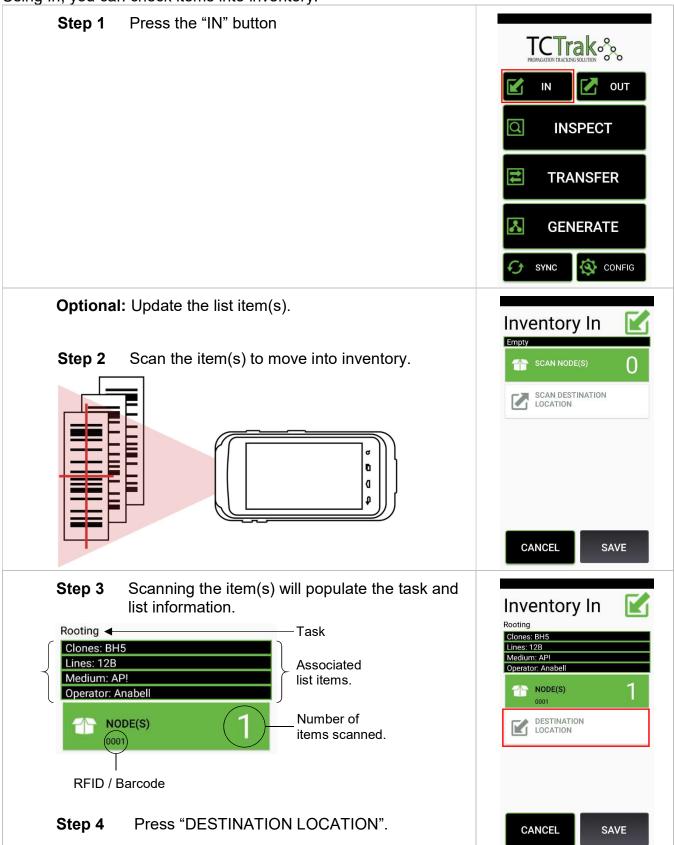
Using transfer, you can move inventory items between locations.

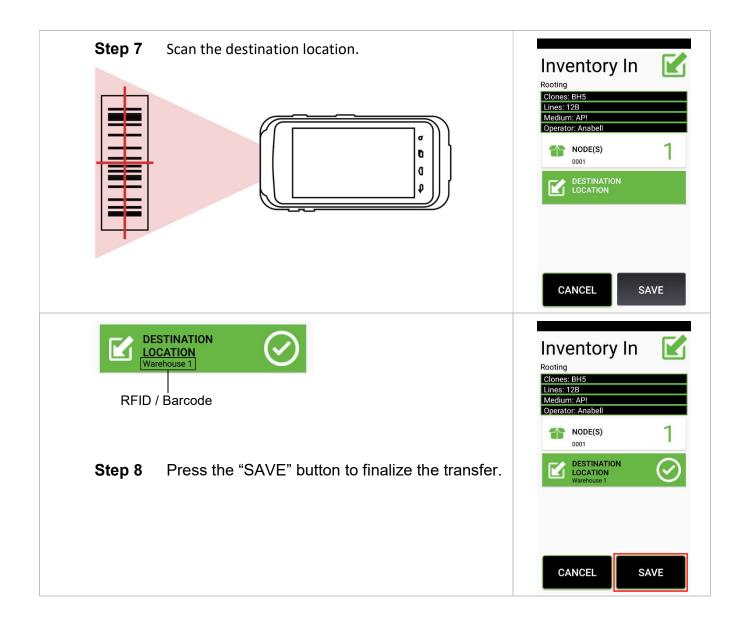






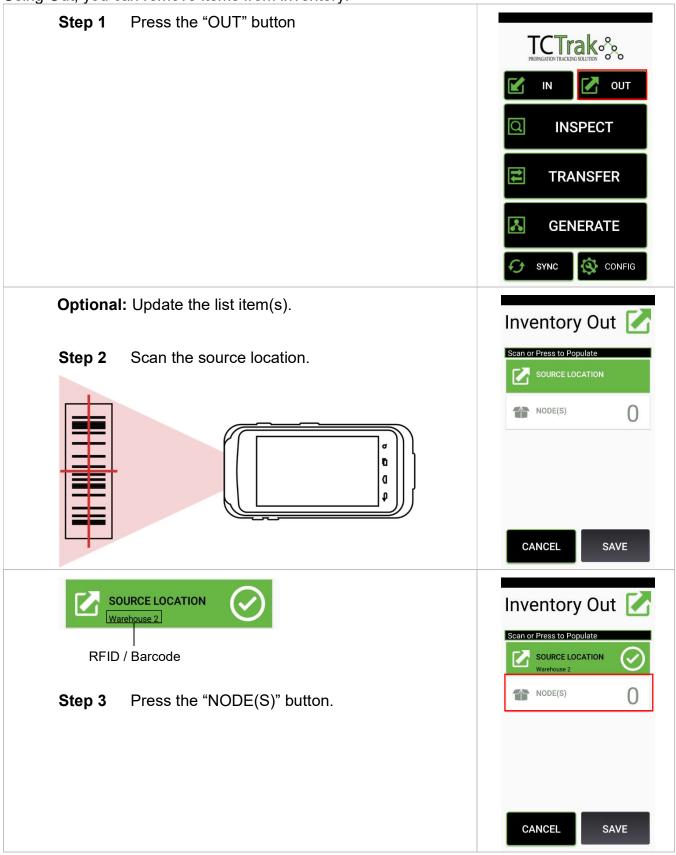
Using In, you can check items into inventory.

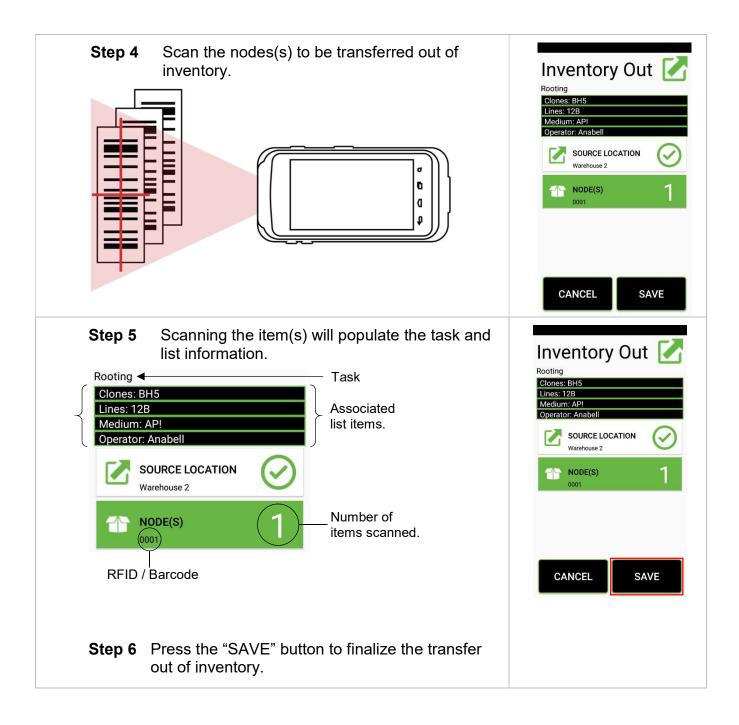




Out

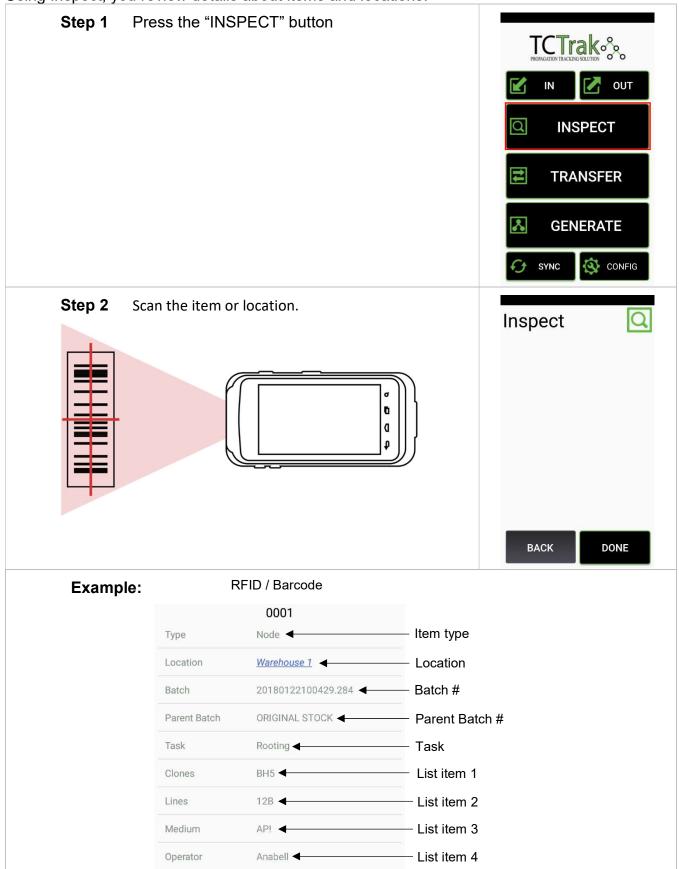
Using Out, you can remove items from inventory.





Inspect

Using Inspect, you review details about items and locations.



Step 3	Press the "DONE" button to exit.	Incho	Inspect	
		inspe		
		Туре	Node	
		Location	Warehouse 1	
		Batch	20180122100429.284	
		Parent Batch	ORIGINAL STOCK	
		Task	Rooting	
		Clones	BH5	
		Lines	12B	
		Medium	AP!	
		Operator	Anabell	
		BACH	DONE	

ERRORS & TROUBLESHOOTING

Error Messages

The following error messages explained.

Unknown Parent Node(s)

The parent node RFID/barcode has not been registered.

Unknown Node(s)

The node RFID/barcode has not been registered.

Unknown Destination Location

The destination location RFID/barcode has not been registered.

Unknown Source Location

The source location has RFID/barcode not been registered.

Multiple Parent Group

The parent node(s) do not share the same batch number.

Multiple Node Groups

The node(s) do not share the same batch number.

No WiFi

No wireless connected and/or internet access.