

Tactical Network Transfer™ (TNT) ATAK Plugin

User Guide



Tactical Network Transfer™ (TNT)





Tactical Network Transfer™ - Overview

TNT™ is a mission planning, training and tactical transfer device that provides a secure IP network which enables communications and data processing when tactical networks and cloud resources are not available. This system reduces the burden of radio availability and cryptographic requirements in the field, which allows you to connect mobile tactical command post systems for mission planning, training, testing, mission rehearsal and system operational checks.

TNT™ is a portable low-voltage TAK enabled and networked device that allows tethered connections of computers, tablets, phones and other End User Devices (EUD's). The TNT provides automatic network routing for plug and play connections and includes a 1TB Secure FTP Server for imagery, data management, file access and storage.



Before We Begin...



This document assumes the following:

1. ATAK Must be installed on the End User Device before installing the TNT™ Plugin.
2. The Reader has followed the steps found in the TNT™ Setup Guide.
3. The Reader has the system set up and the EUD is receiving an IP Address from the TNT™ System.



This icon indicates the tablet/EUD detects a network connection

This icon indicates the tablet/EUD is receiving an IP address from the TNT™ System

TNT™ Plugin for ATAK Table of Contents



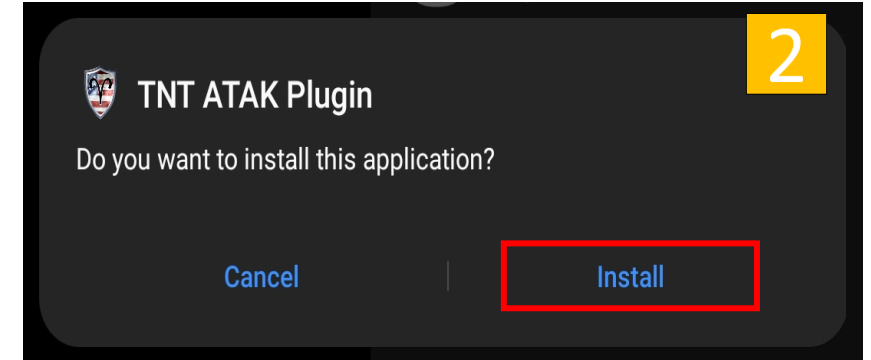
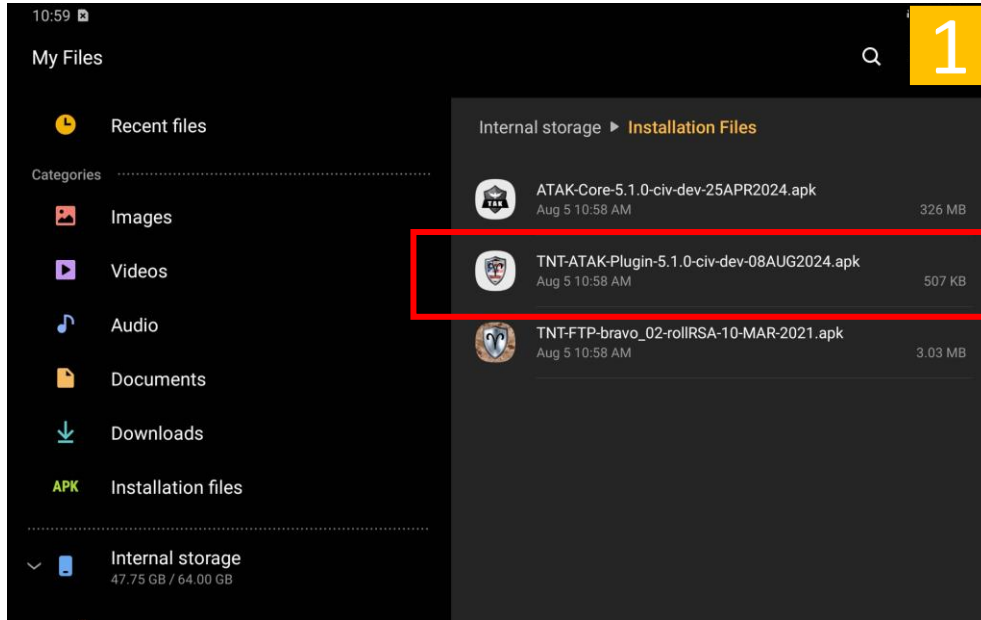
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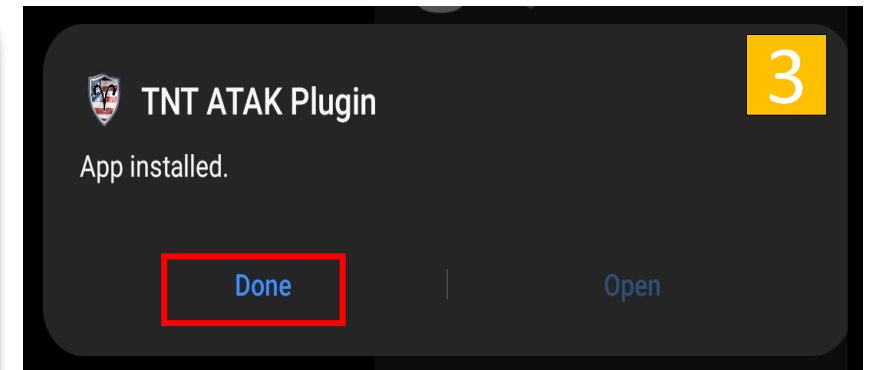
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Install TNT™ Plugin for ATAK

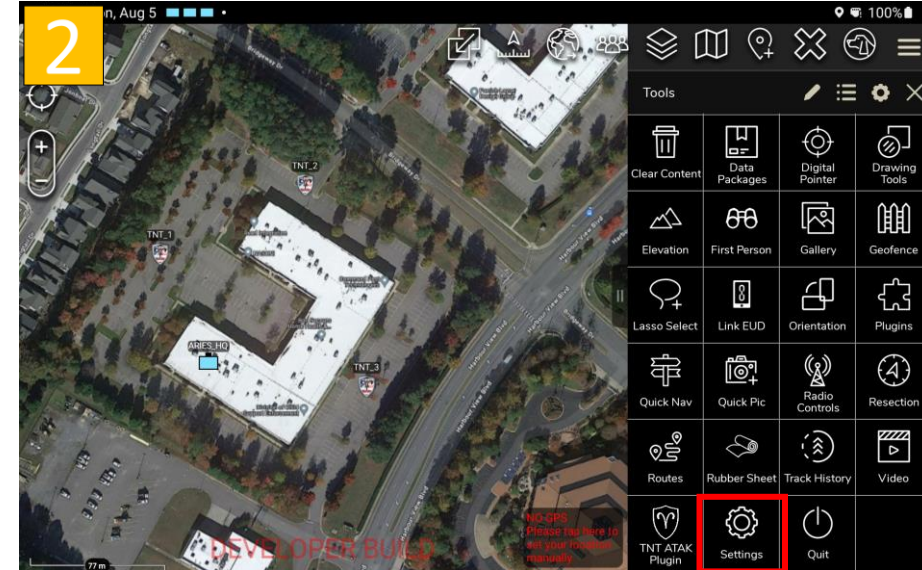
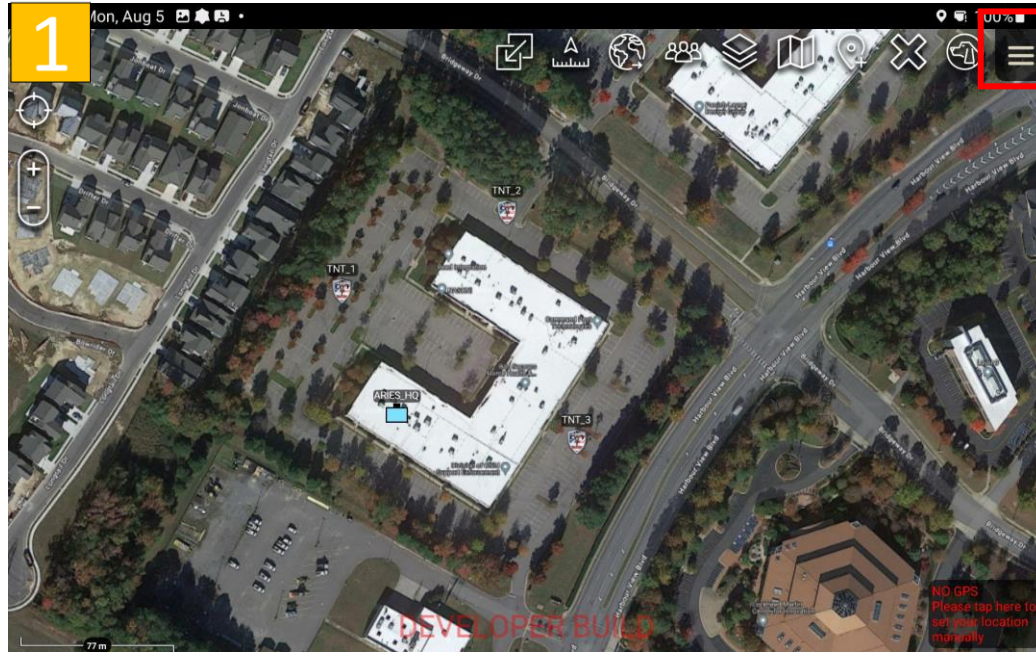


1. **Tap** the TNT™ Plugin APK file to begin installation.
2. Review the Permissions Statement then **tap Install**.
3. **Tap DONE** once the installation is complete.

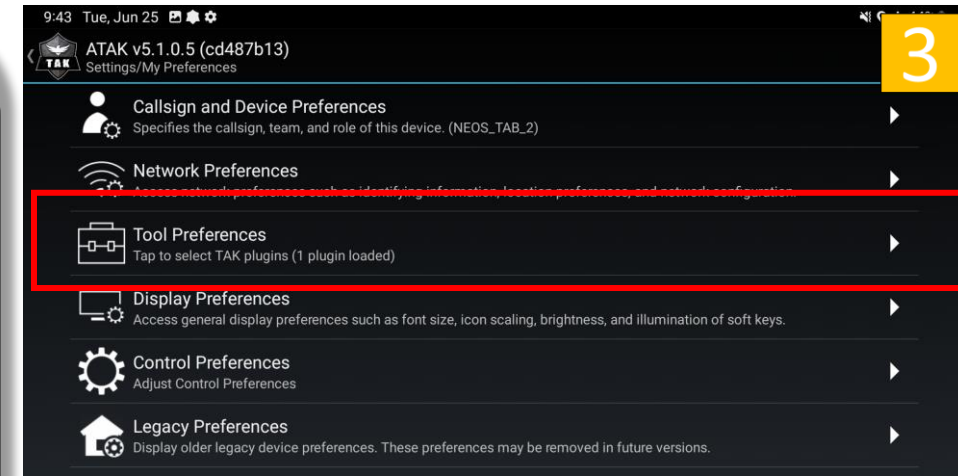
Note: you may have to adjust the security settings on your device to install this application.



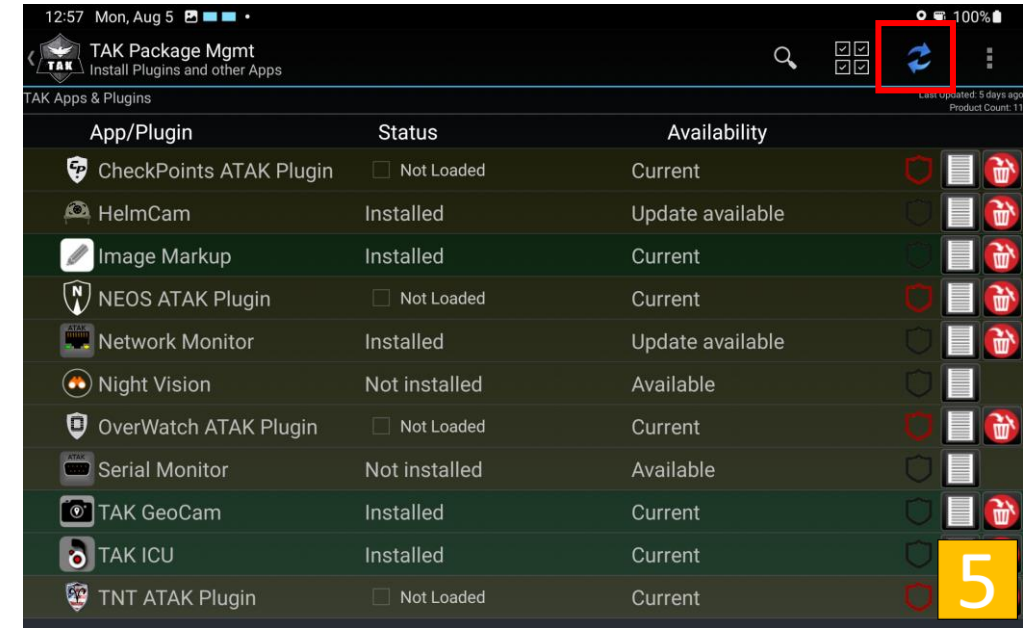
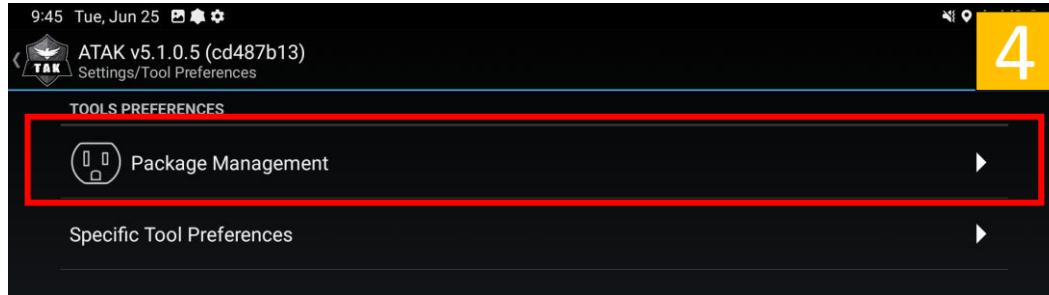
Load TNT™ Plugin for ATAK



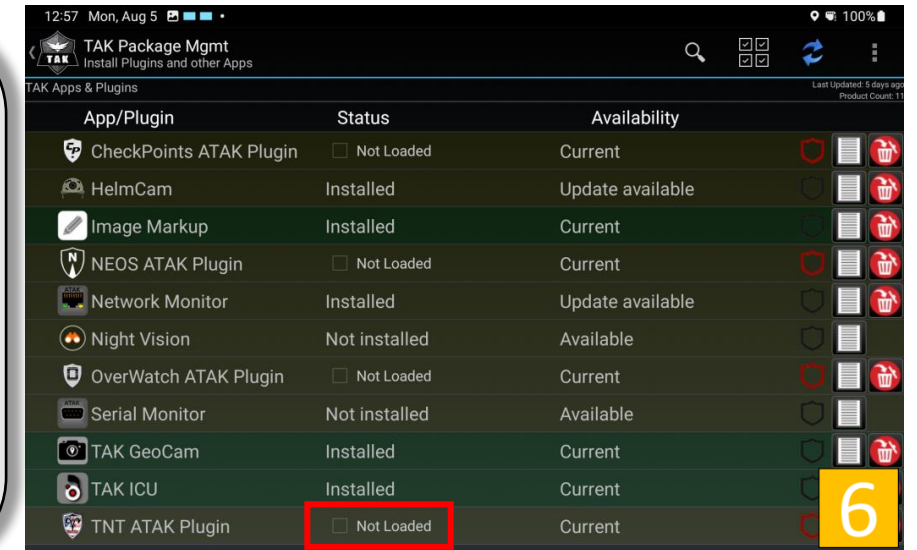
1. **Launch** ATAK then **tap** the Triple Dots button to open the overflow menu.
2. Scroll down to the bottom of the list then **tap** Settings.
3. **Tap** Tool Preferences under the “Manage My Device” section.



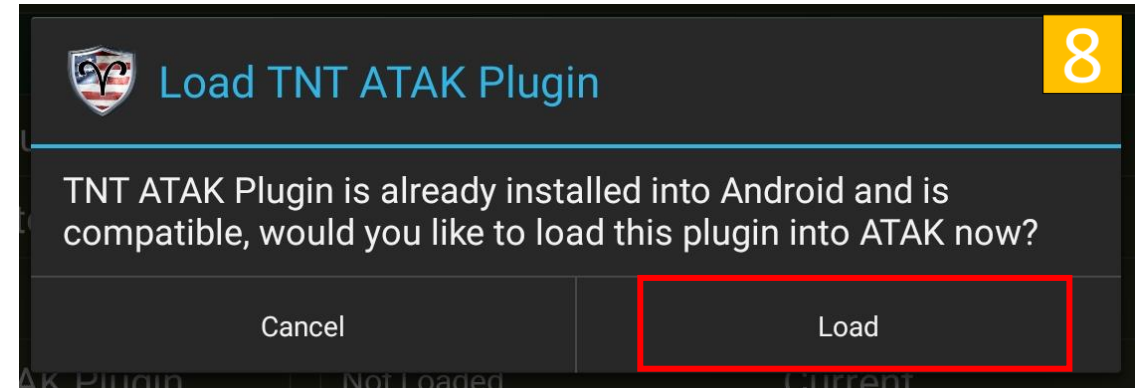
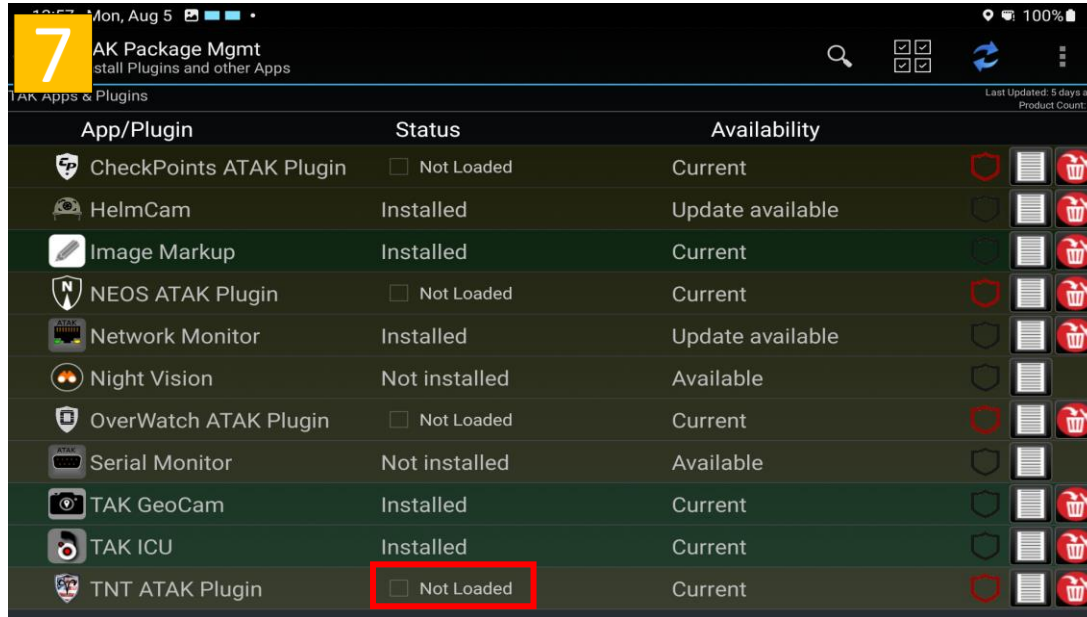
Load TNT™ Plugin for ATAK (Cont...)



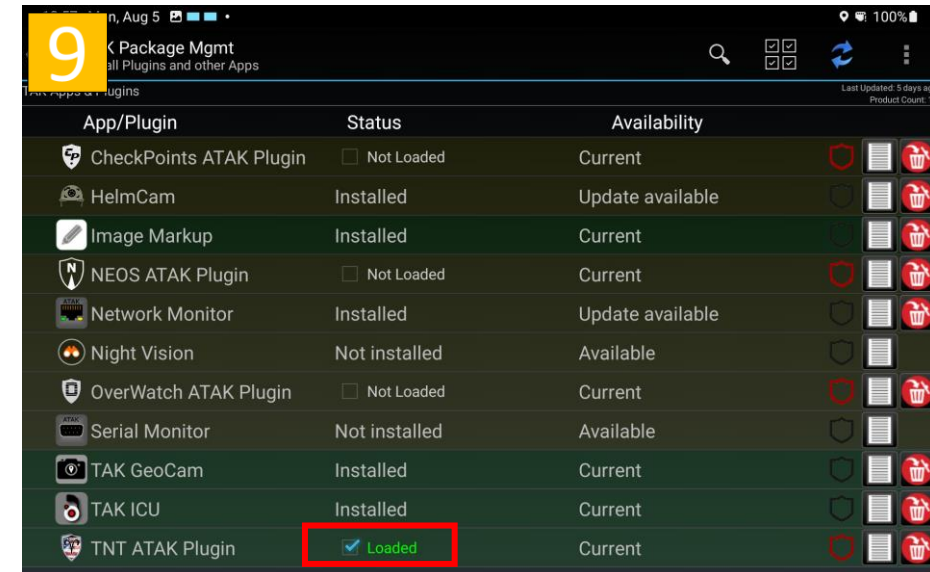
4. **Tap** TAK Package Mgmt.
5. If the TNT™ Plugin is not loaded **tap** the **Refresh** button then **tap** OK to Sync Packages.
6. **Tap** the Not Loaded checkbox.



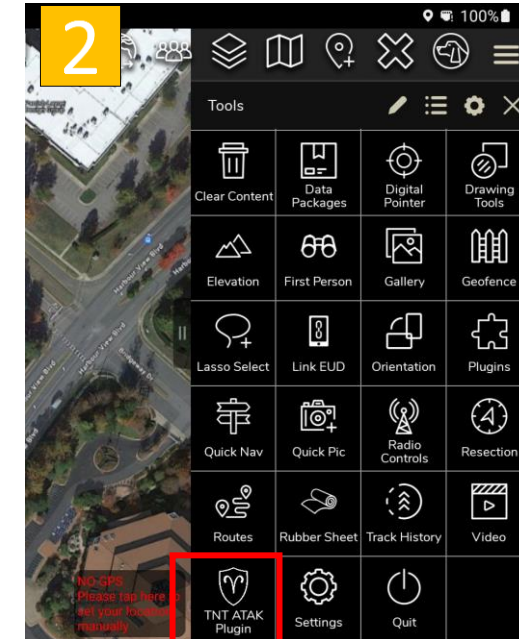
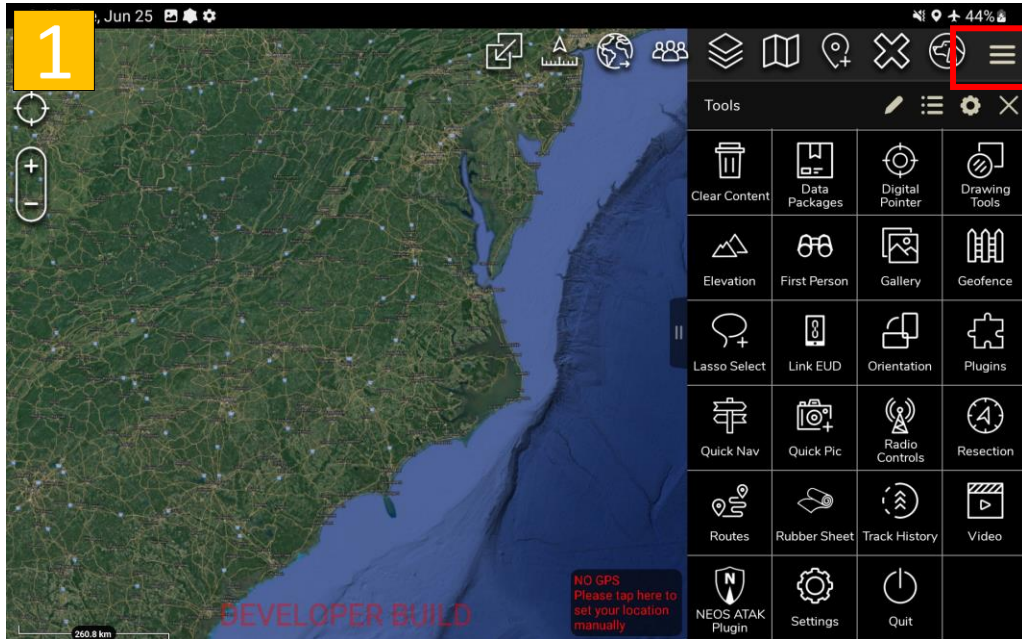
Load TNT™ Plugin for ATAK (Cont...)



7. Review the TNT™ Plugin details then **tap** the square next to Not Loaded.
8. **Tap Load** to load the plugin.
9. **TNT™** is now loaded. Tap the back button on the EUD to return to the main ATAK Interface.



Launch TNT™ Plugin



1. **Tap** the Triple Dots button.
2. Scroll down to the bottom of the list and **tap** TNT™.

TNT™ Plugin for ATAK User Interface



TNT Back (File Navigation) Current TNT Path TNTConnection Status

2:16 Mon, Aug 5 100%

TNT
5rftp/FTP

- DTED
Size: 1.0 KB
- MANUALS
Size: 1.0 KB
- BRIEFS
Size: 1.0 KB
- INSTALLERS
Size: 1.0 KB
- IMAGERY
Size: 1.0 KB
- REPORTS
Size: 1.0 KB

NO GPS
Please tap here to set your location manually

DEVELOPER BUILD

Close Plugin

Select TNT

Upload

Download

Location Config

More Options

New Folder

Delete File

Rename File

Move File



TNT™ Plugin for ATAK: Select TNT

Select TNT



3:45 Mon, Aug 5 100%

TNT-

TNT Callsign	TNT Address	Status	Action
TNT_3	10.6.63.12	Active (Green)	Delete
TNT_2	10.6.63.11	Active (Green)	Delete
TNT_1	10.6.63.10	Stale (Grey)	Delete
ManualEntryTNT	10.6.63.70	Hand Jammed (Green with hand)	Delete

Active Feed (Stales after 5 minutes of inactivity)

Delete Feed

Stale Feed

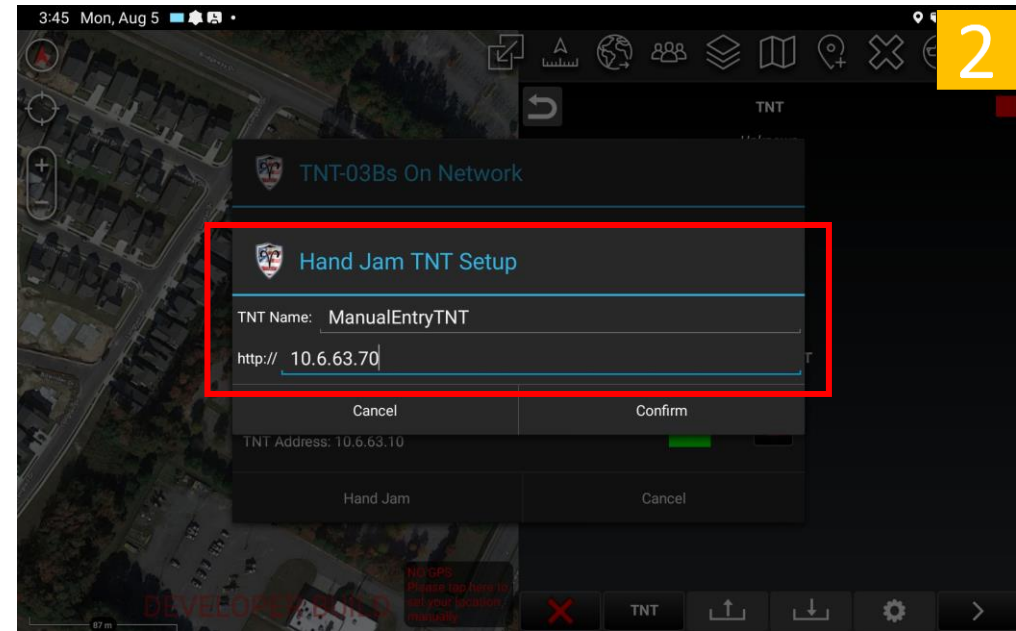
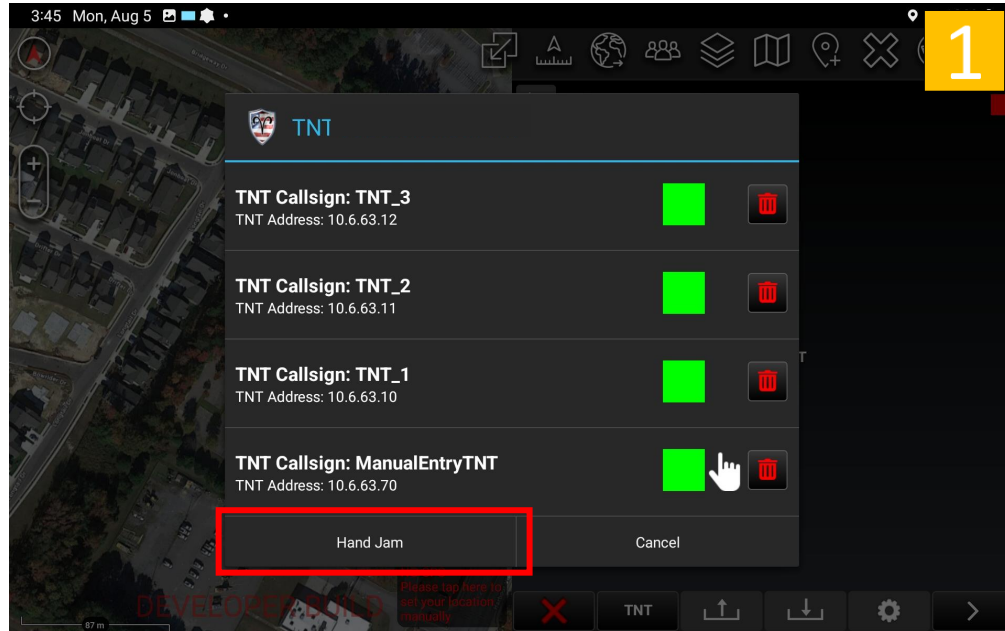
Hand Jammed Feed

Hand Jam Cancel

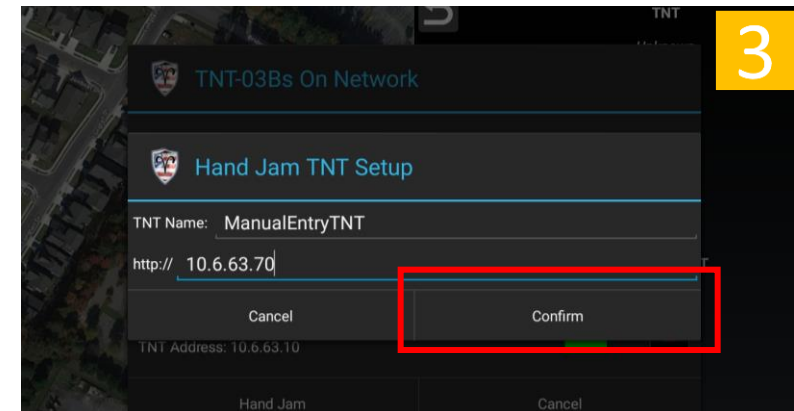
DEVELOPER BUILD

NO GPS Please tap here to set your location manually

Hand Jam TNT



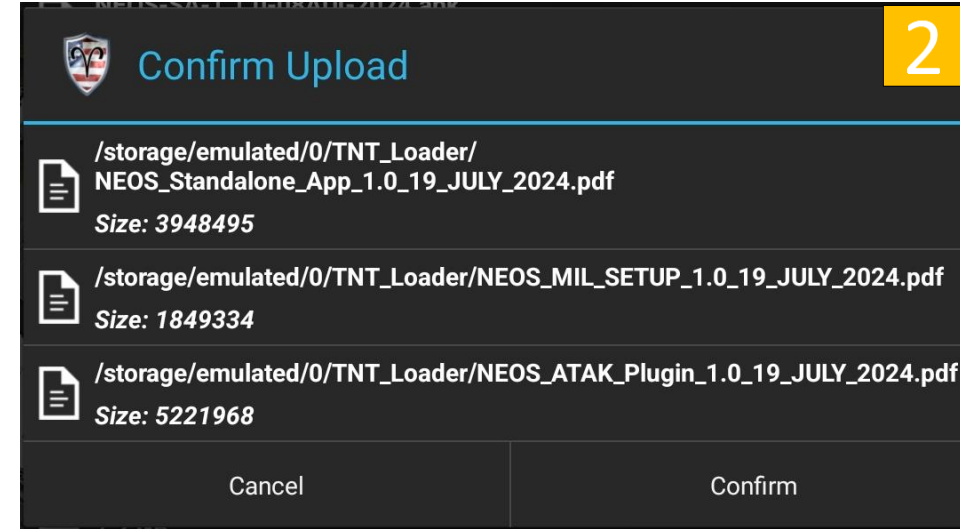
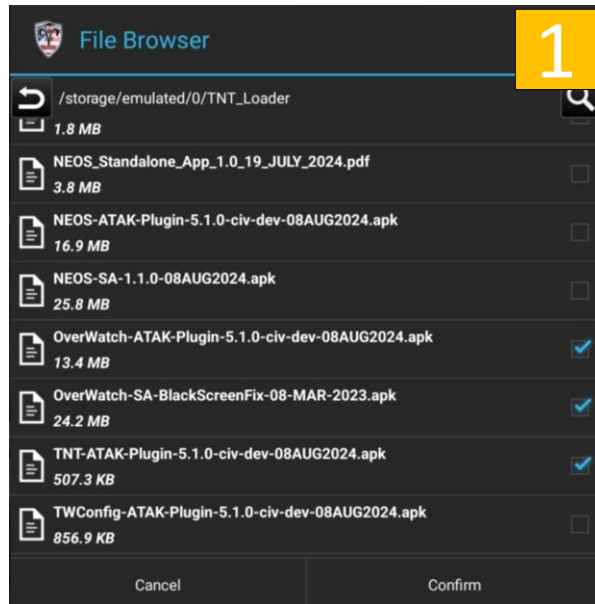
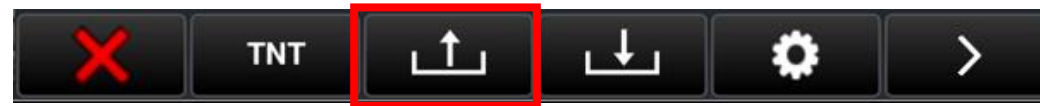
1. **Select** Hand Jam
2. **Enter** Required Fields
 - TNT Name is user defined.
 - The Default TNT URL is: 10.6.63.10.
3. **Tap** Confirm to continue.



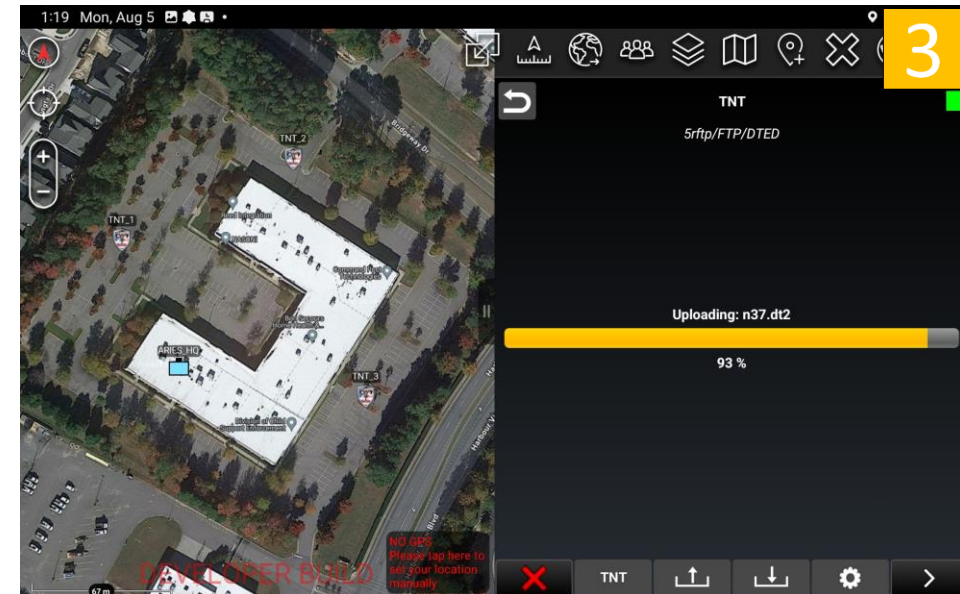


TNT™ Plugin for ATAK: Upload

Upload



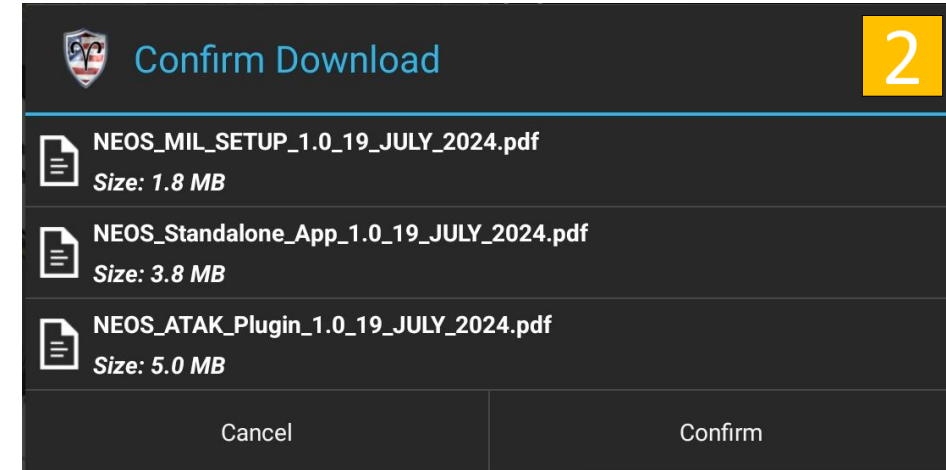
1. **Navigate** to the file path on the TNT where you want to upload files and then tap upload to select files to upload
2. **Confirm** the files
3. **Upload** files begins and a progress bar displays to track the progress of the upload





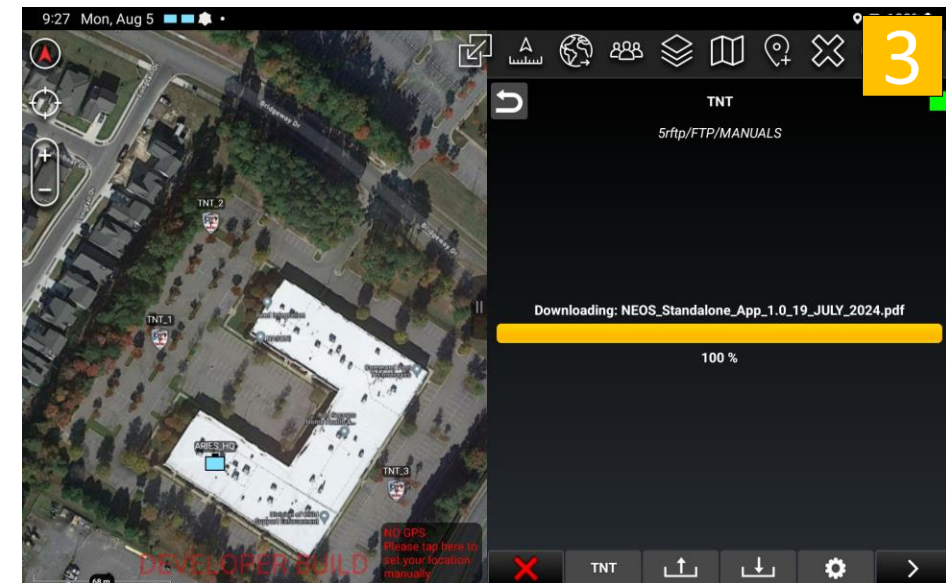
TNT™ Plugin for ATAK: Download

Download



1. **Navigate** to the file path on the TNT where you want to download files from and then select files to download
2. **Confirm** the files
3. **Download** files begins and a progress bar displays to track the progress of the upload.

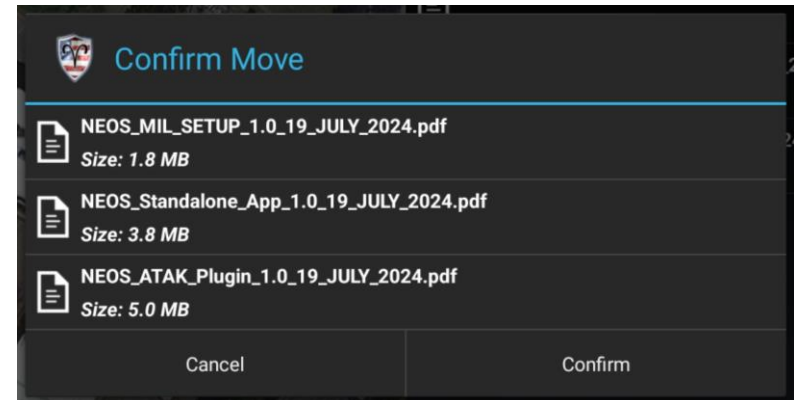
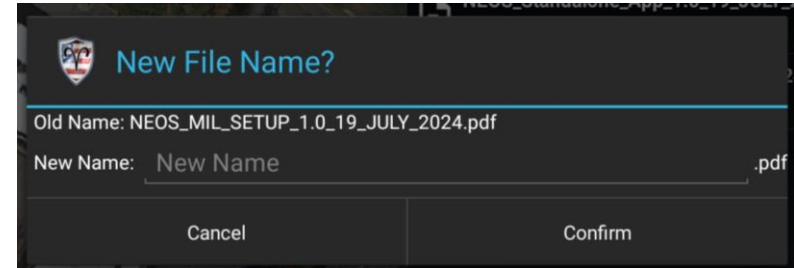
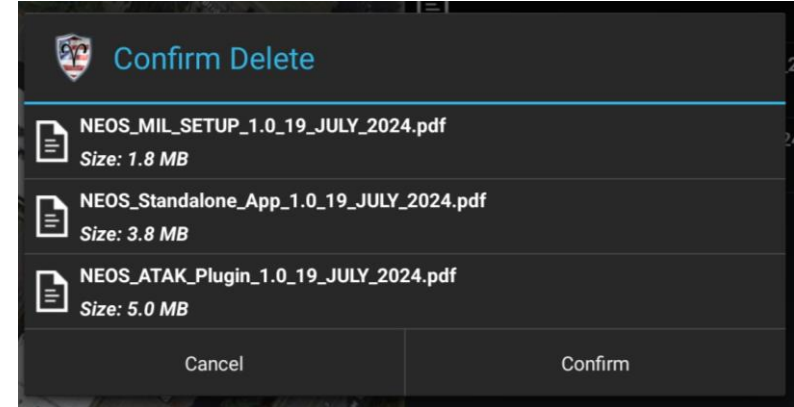
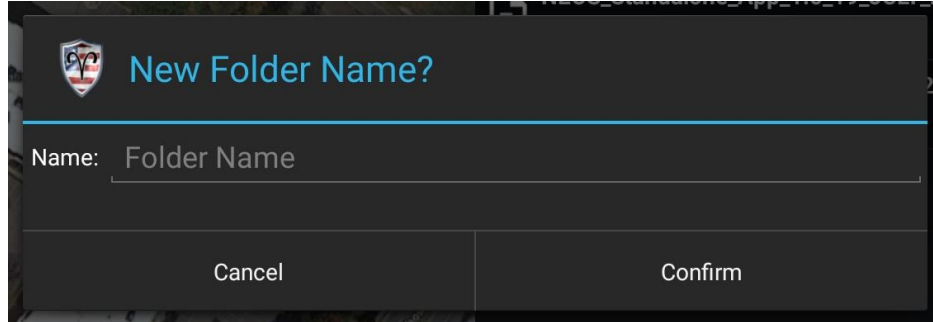
**Files are downloaded to internal/atak/tools/TNT/downloads*





TNT™ Plugin for ATAK: Manage

Manage



1. **Navigate** to the more options menu bar. When a file or directory is selected the functions become enabled
2. **Functions:**
 - Create Folder
 - Delete File/Folder
 - Rename File/Folder
 - Move File/Folder



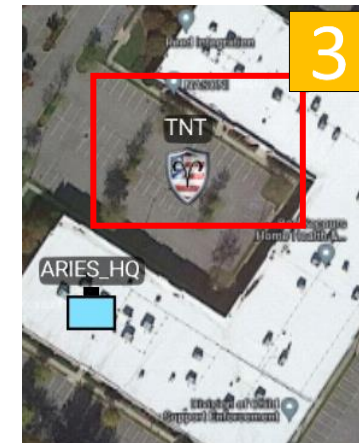
TNT™ Plugin for ATAK: Place TNT Location

TNT™ Plugin for ATAK: Location Config

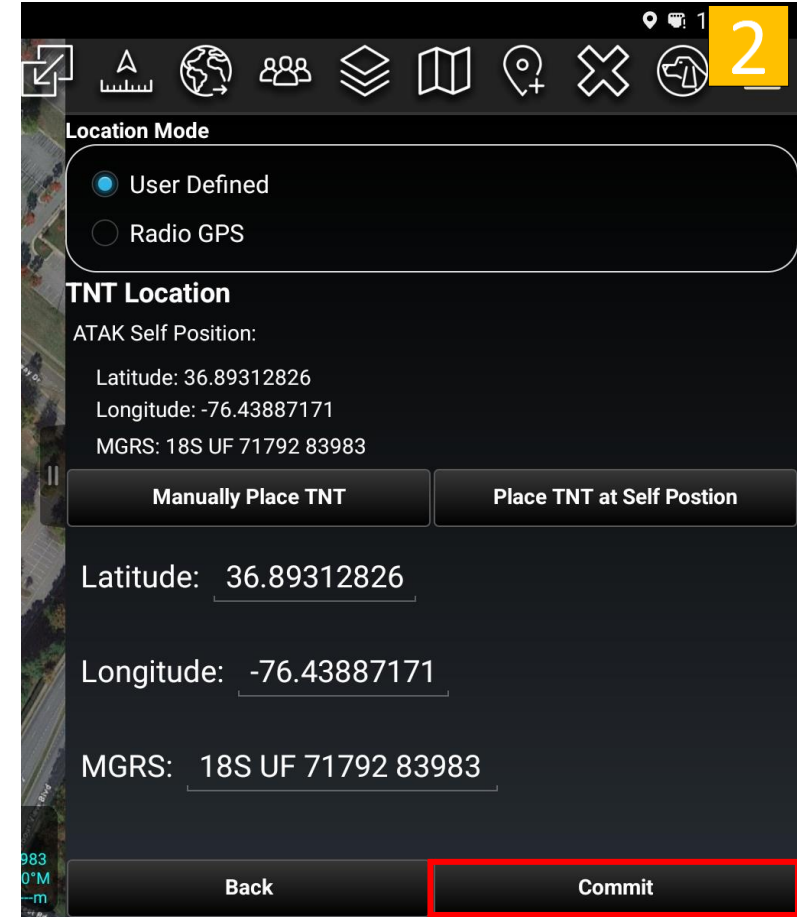
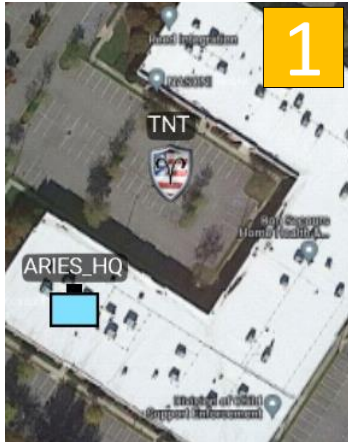


1. **Tap** the Location Config Button. (Gear Icon)
2. **Tap** Manually Place TNT.
3. **Tap** the location of TNT on the Map.

A TNT Shield will automatically be placed at the TNT location.



TNT™ Plugin for ATAK: Location Config cont.



1. After placing your TNT location, the latitude and longitude will update with the current coordinates shown along with an icon appearing.
2. You can adjust location placement again by using the place TNT options. Once where desired, hit commit and the TNT location will be saved to the selected location.



TNT™ Plugin for ATAK: Preferences

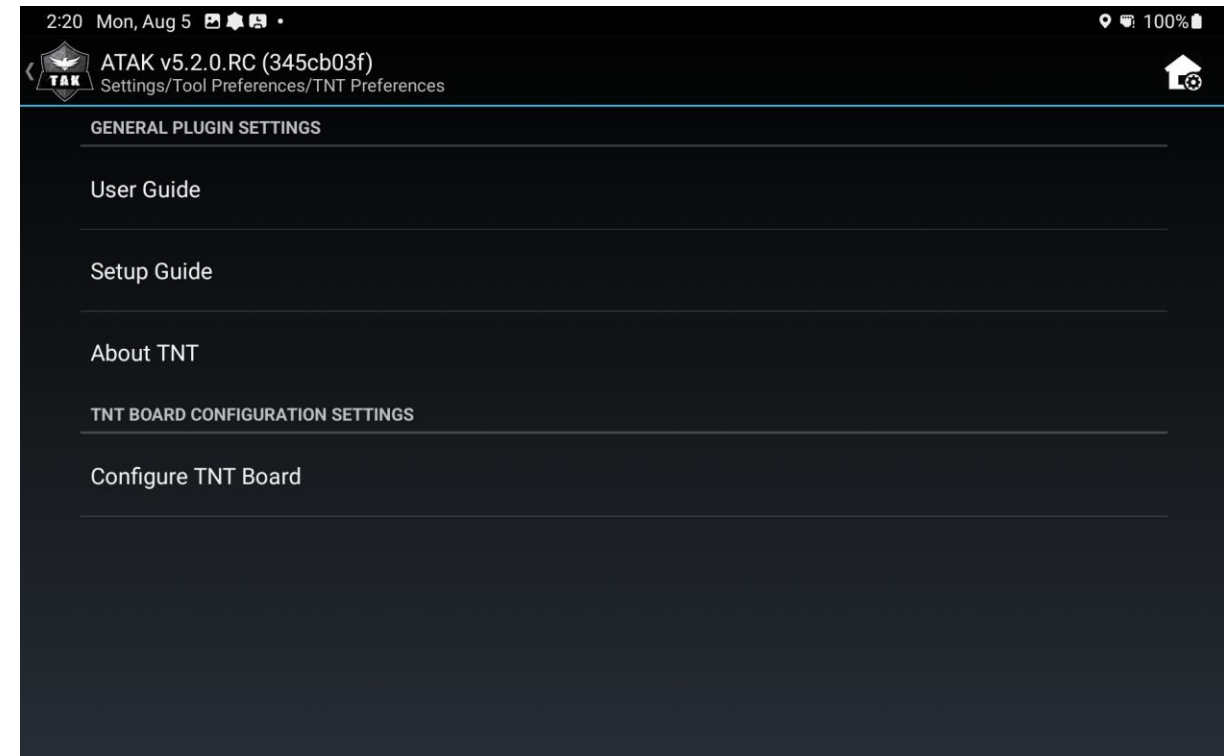
TNT™ Plugin for ATAK: Preferences Overview



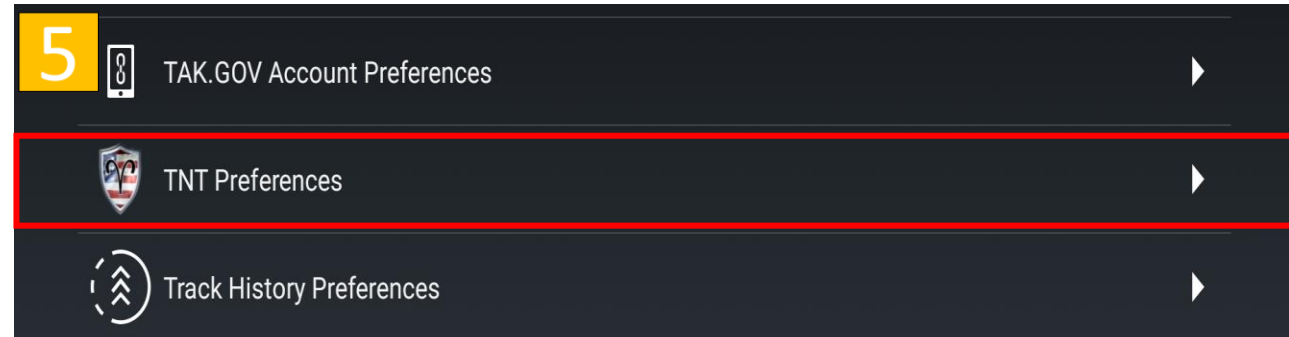
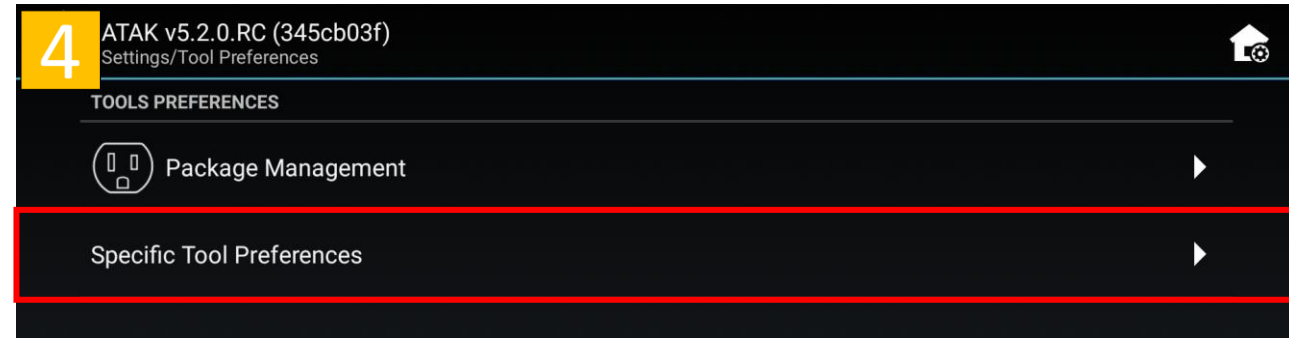
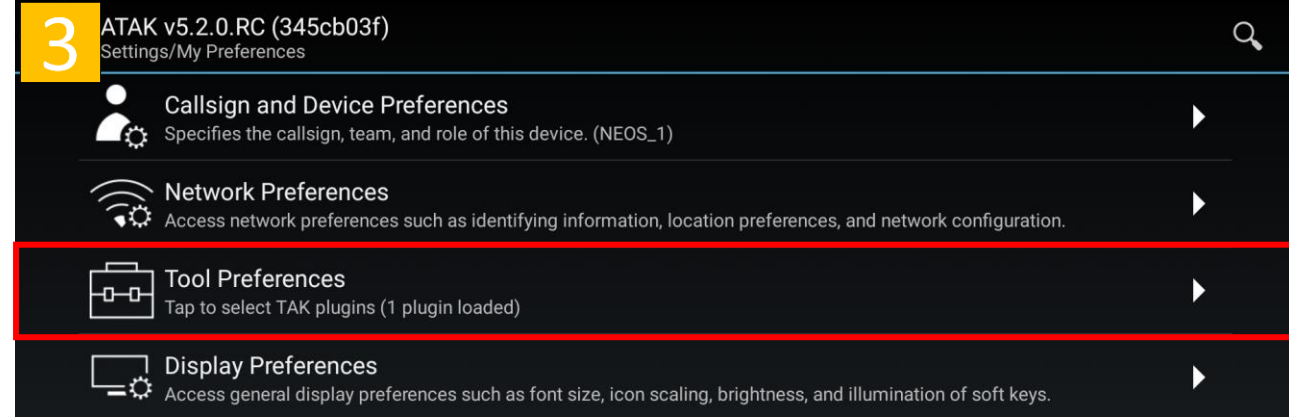
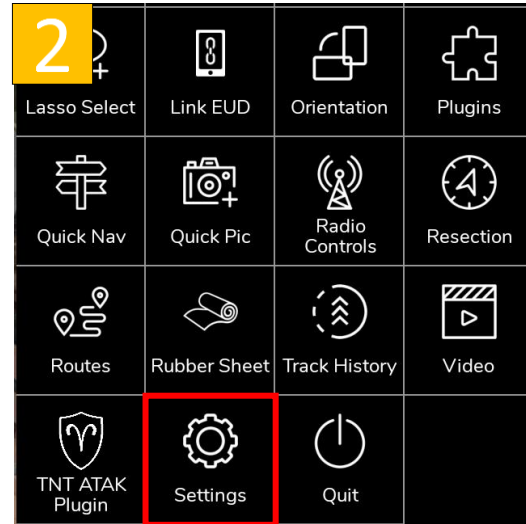
The TNT™ Preferences allows the user to:

- View a user guide
- View a setup guide
- View information about TNT™
- Configure the settings on the TNT™ (ADVANCED)*

*This should be done with extreme caution!

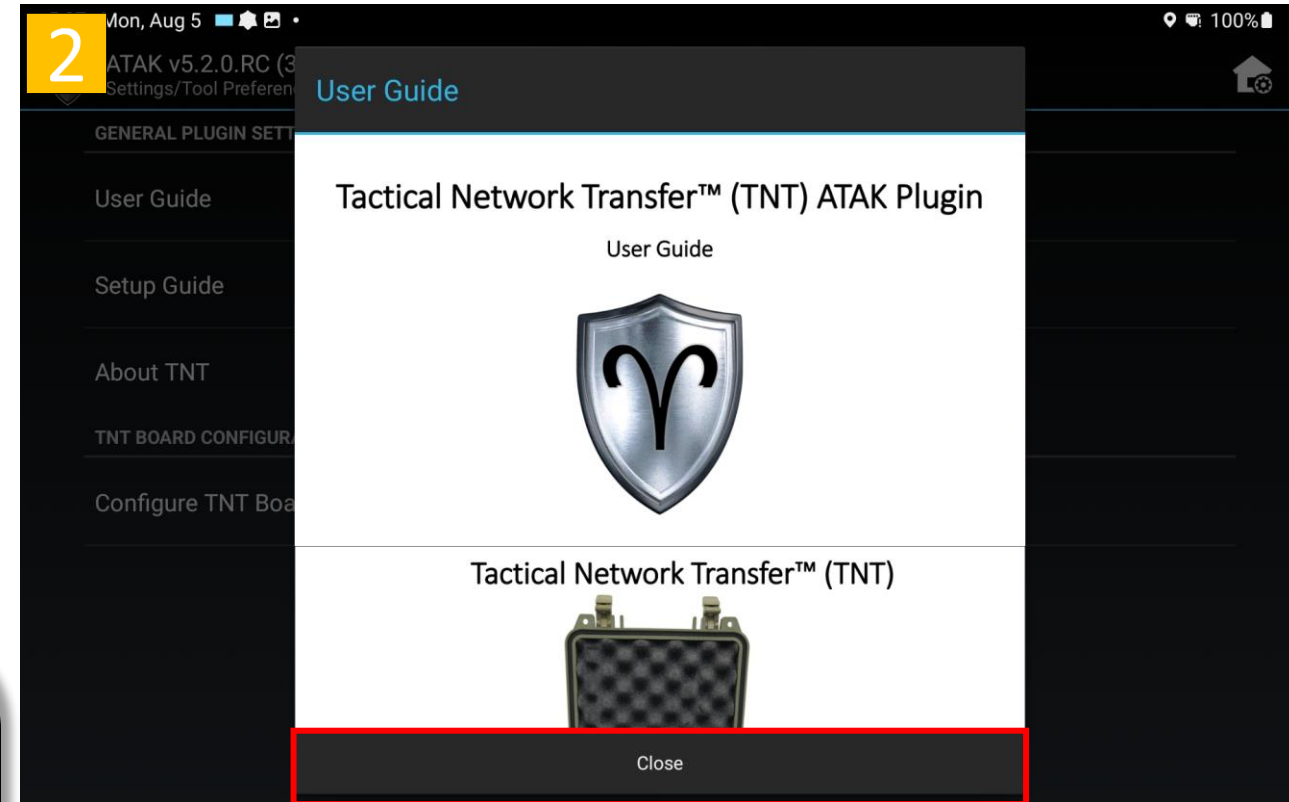
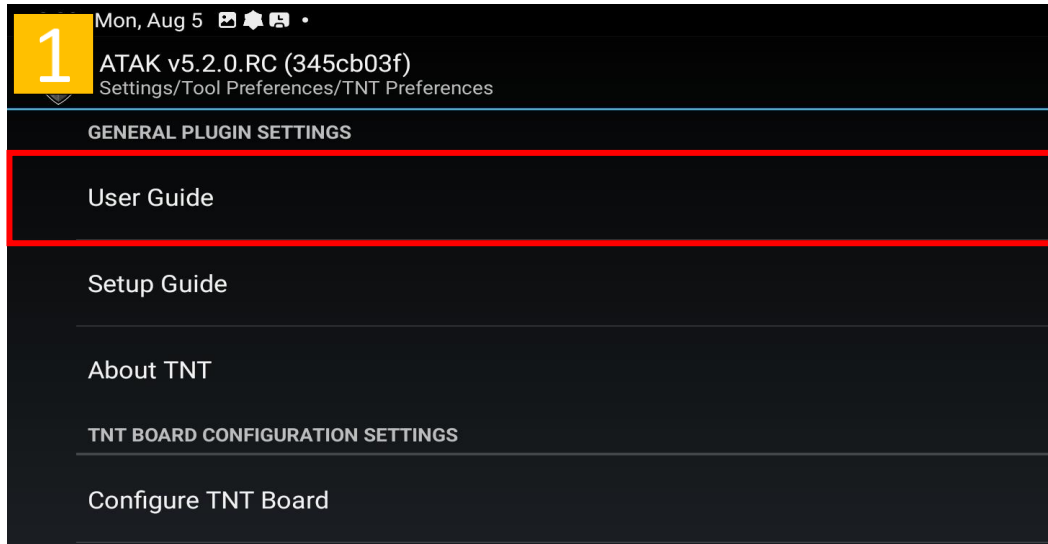


TNT™ Plugin for ATAK: Access Preferences



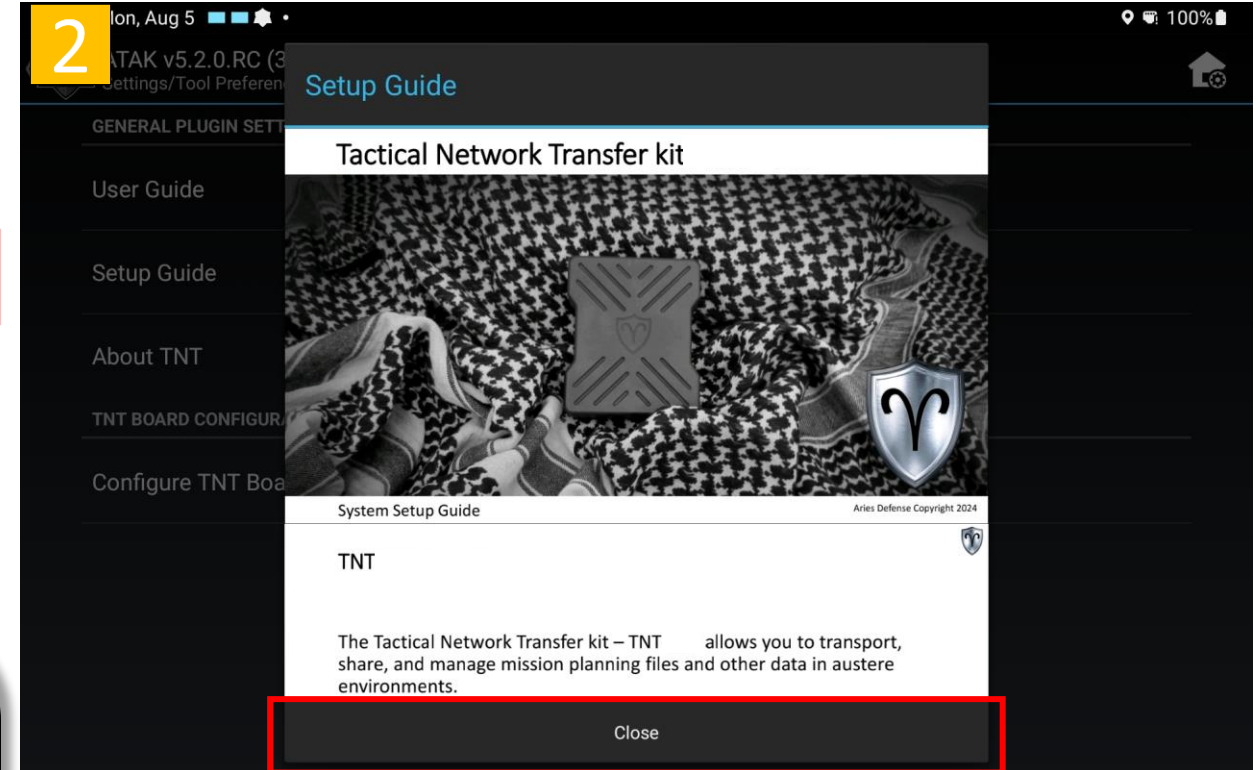
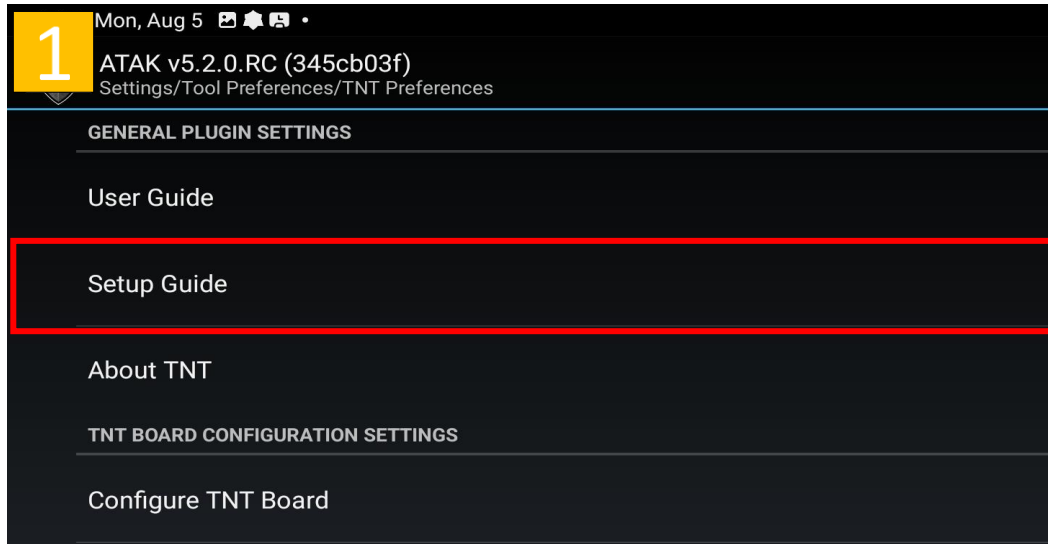
1. **Tap** the Triple Stack button.
2. **Tap** Settings.
3. **Tap** Tool Preferences.
4. **Tap** Specific Tool Preferences.
5. **Tap** TNT™ Preferences.

TNT™ Plugin for ATAK: Preferences – User Guide



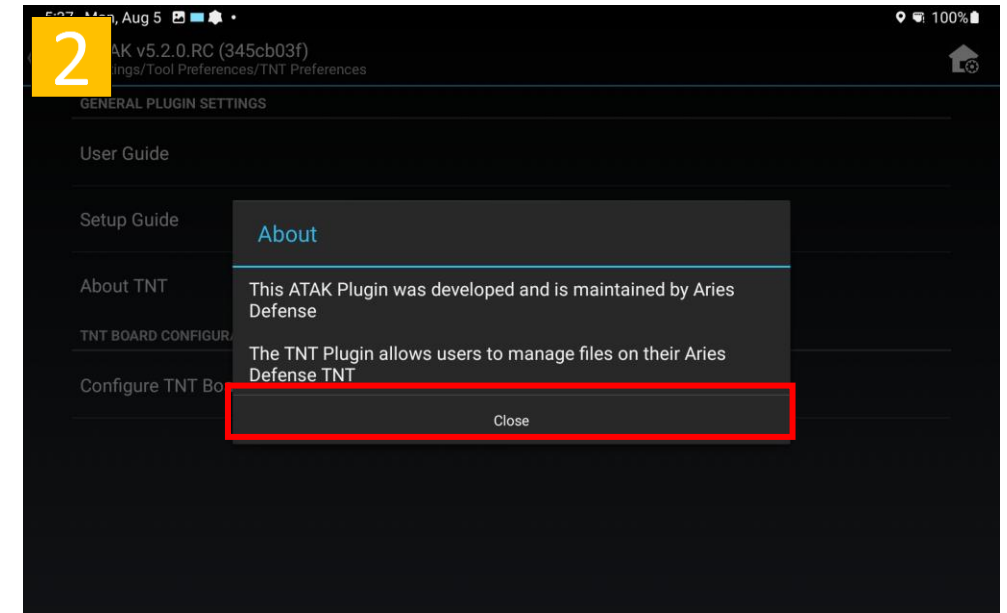
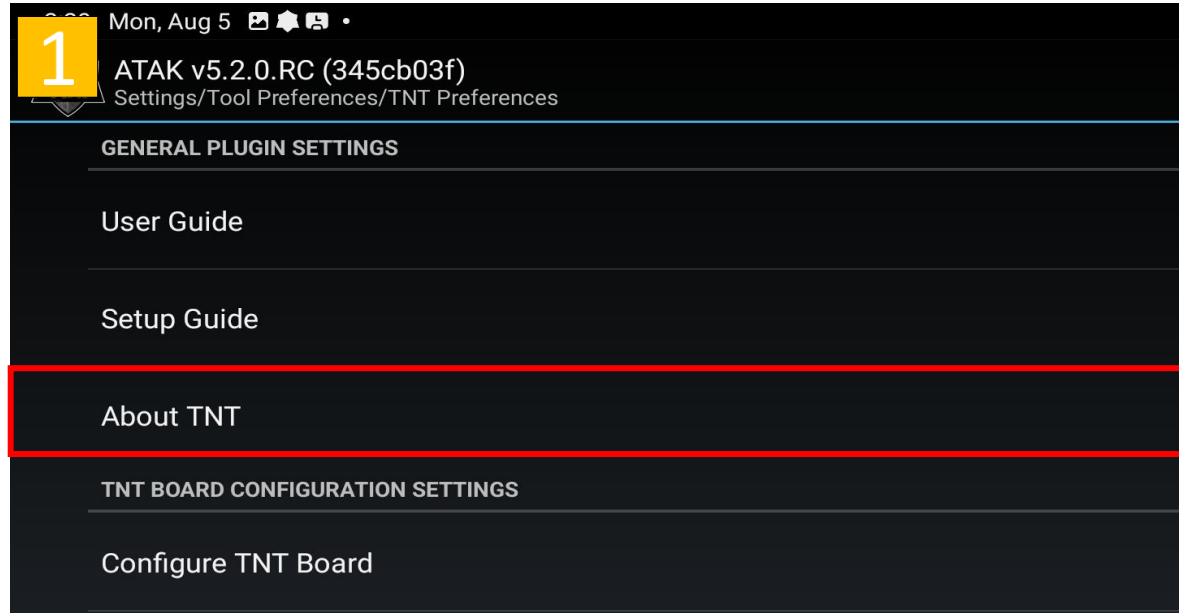
1. Locate and **tap** User Guide under General Settings.
2. **Tap** Close to exit the User Guide window.
3. Continue to make changes to the preferences or **tap** back on the EUD to return to the main ATAK screen.

TNT™ Plugin for ATAK: Preferences – Setup Guide



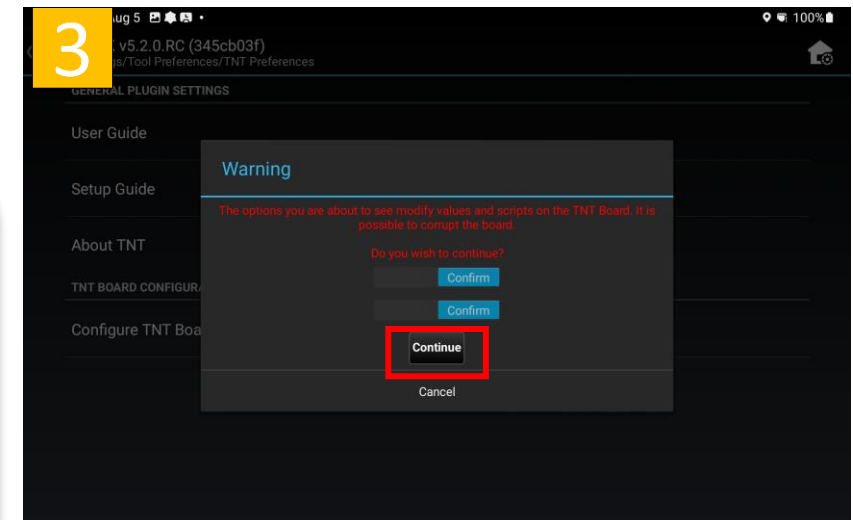
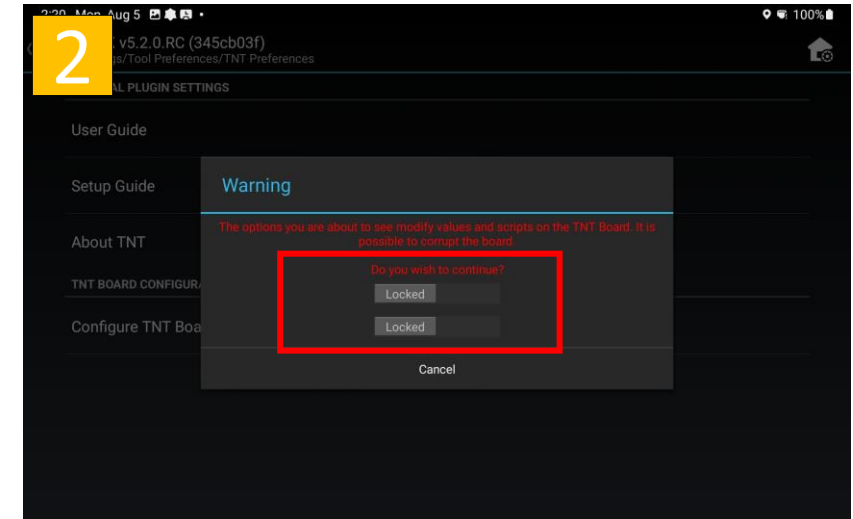
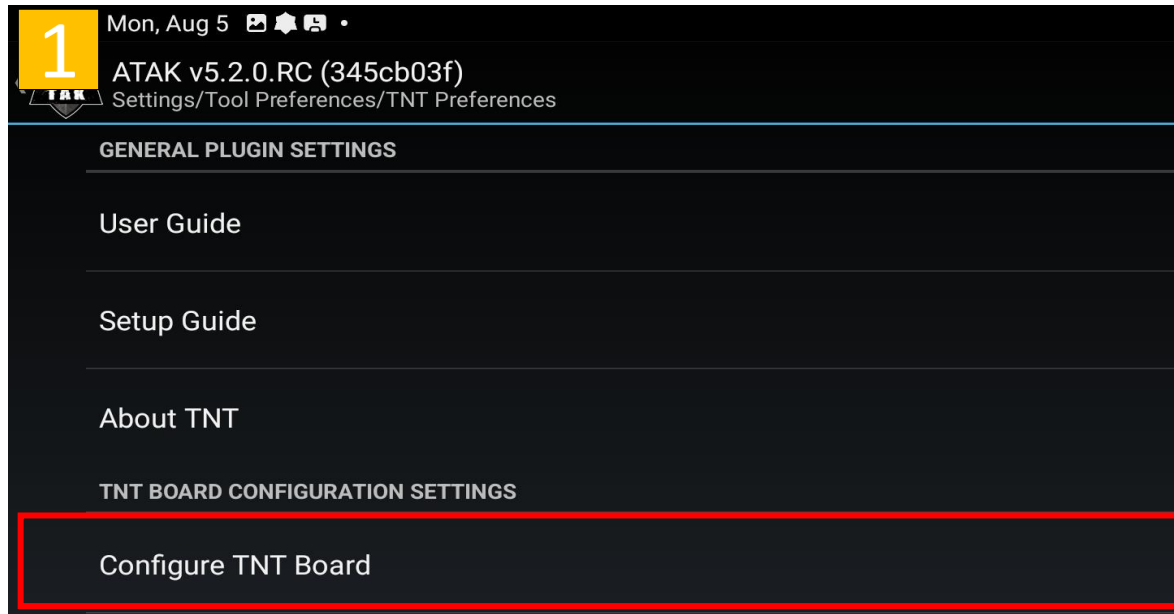
1. Locate and **tap** Setup Guide under General Settings.
2. **Tap** Close to exit the Setup Guide window.
3. Continue to make changes to the preferences or **tap back** on the EUD to return to the main ATAK screen.

TNT™ Plugin for ATAK: Preferences – About TNT™



1. Locate and **tap** About TNT™ Type under Other Settings.
2. **Tap** Close to exit the About window. Continue to make changes to the preferences or **tap** back on the EUD to return to the main ATAK screen.

TNT™ Plugin for ATAK: Settings – Board Configuration



1. Locate and **tap** Configure TNT™ Board under TNT™ Board Configuration Settings
2. Read the warning message then **Tap** both Locked Buttons to set them to Confirm
3. **Tap** Continue to enter the Configuration Menu.
WARNING Entering in invalid settings could potentially render the system inoperable.



TNT™ Board Configuration

TNT™ Board Configuration - Overview



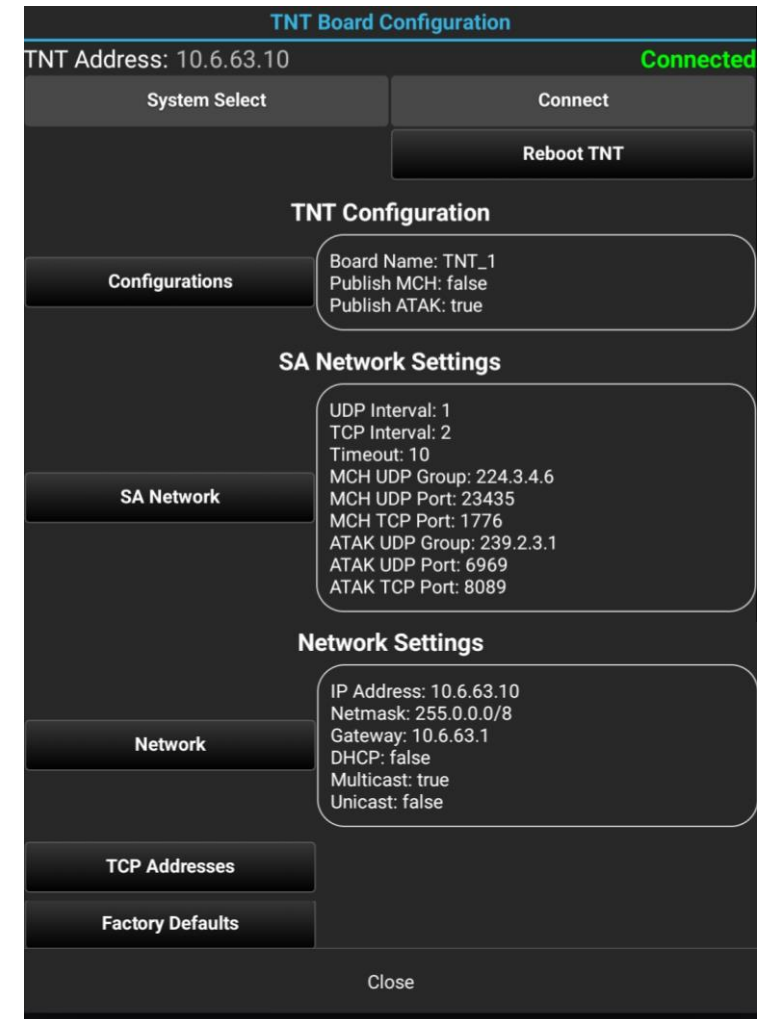
Please see “TNT™ Settings – Board Configuration” on Page 31 and follow the steps to access the Board Configuration Menu. Configuring the settings in this section assumes the user has done this step.

The TNT™ Board Configuration allows the user to:

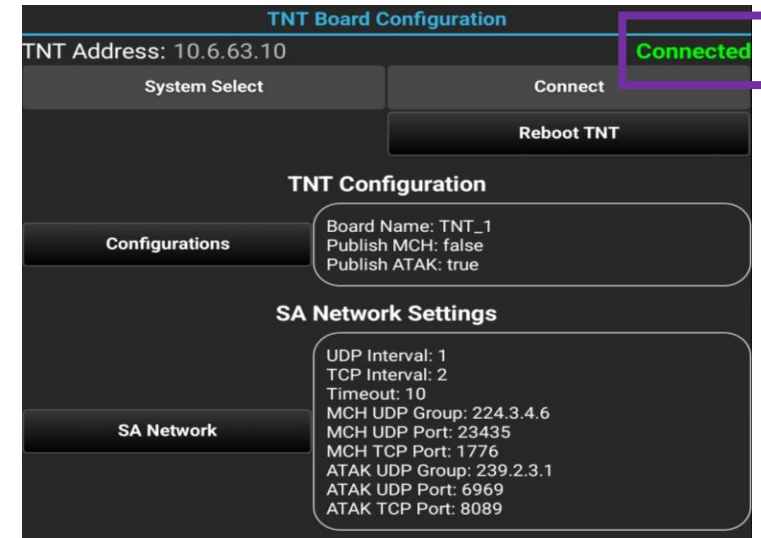
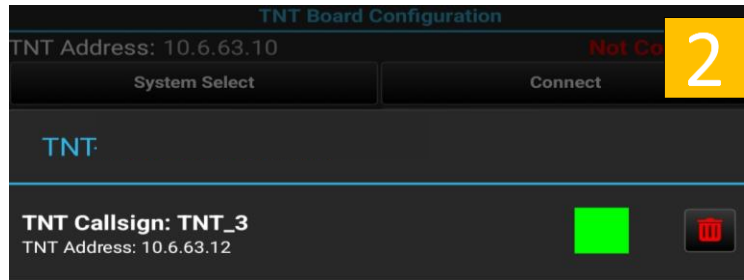
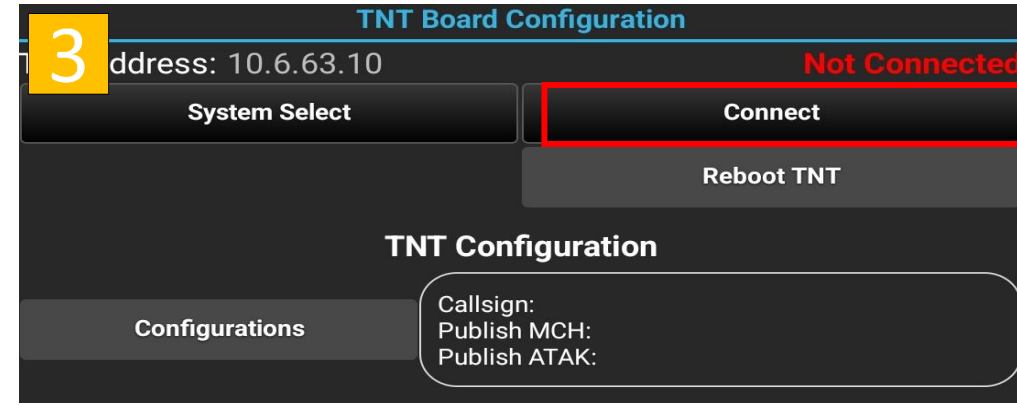
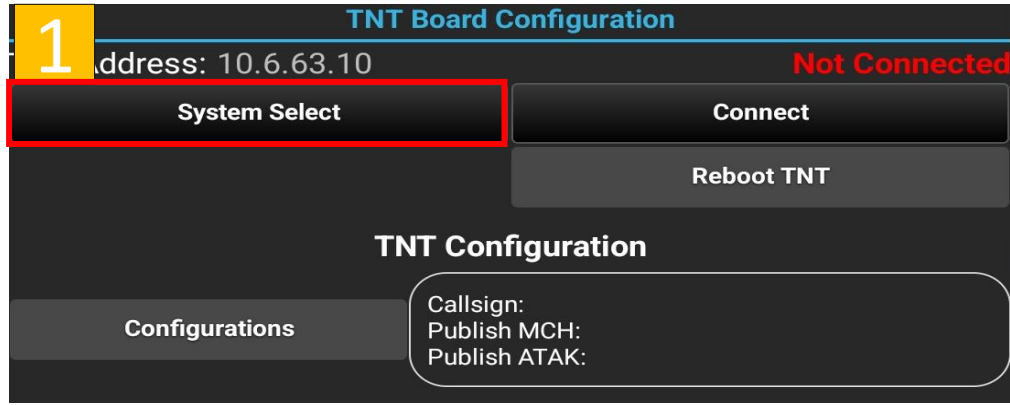
- Modify Board Name
- Modify Situational Awareness Network Settings
- Modify IP Addresses and Ports
- Modify FTP Access Network settings

****IMPORTANT**** After the configurations have been altered the board must be rebooted. This can be done by **tapping** the **Reboot TNT™ Button**. Close the TNT™ App and relaunch once the EUD receives an IP Address from the TNT™ Board.

Proceed with caution



TNT™ Board Configuration – Connect to Board



1. **Tap System Select** to choose a TNT system to login to.
2. **Tap** a TNT system from the list.
3. **Tap Connect**.

Connection Status:

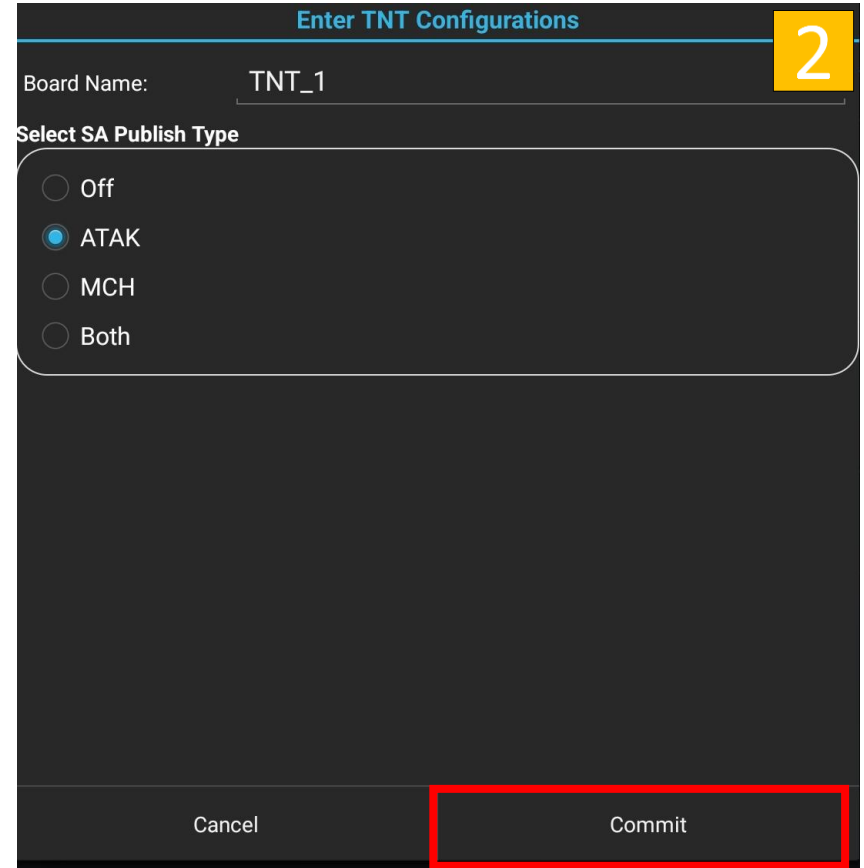
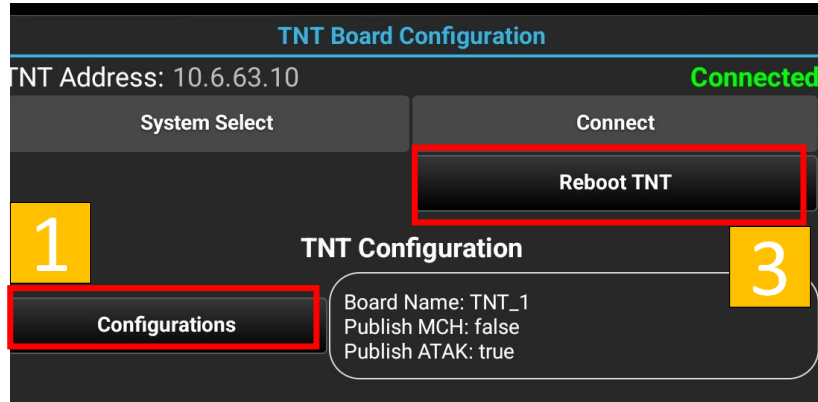
- Not Connected** – The TNT™ Plugin is not logged into the board
- Connecting...** – The TNT™ Plugin is trying to establish a logon session
- Connected** – The TNT™ Plugin is currently logged into the board.



TNT™ Board Configuration

Configuration Settings

TNT™ Board Configuration – Configuration Settings



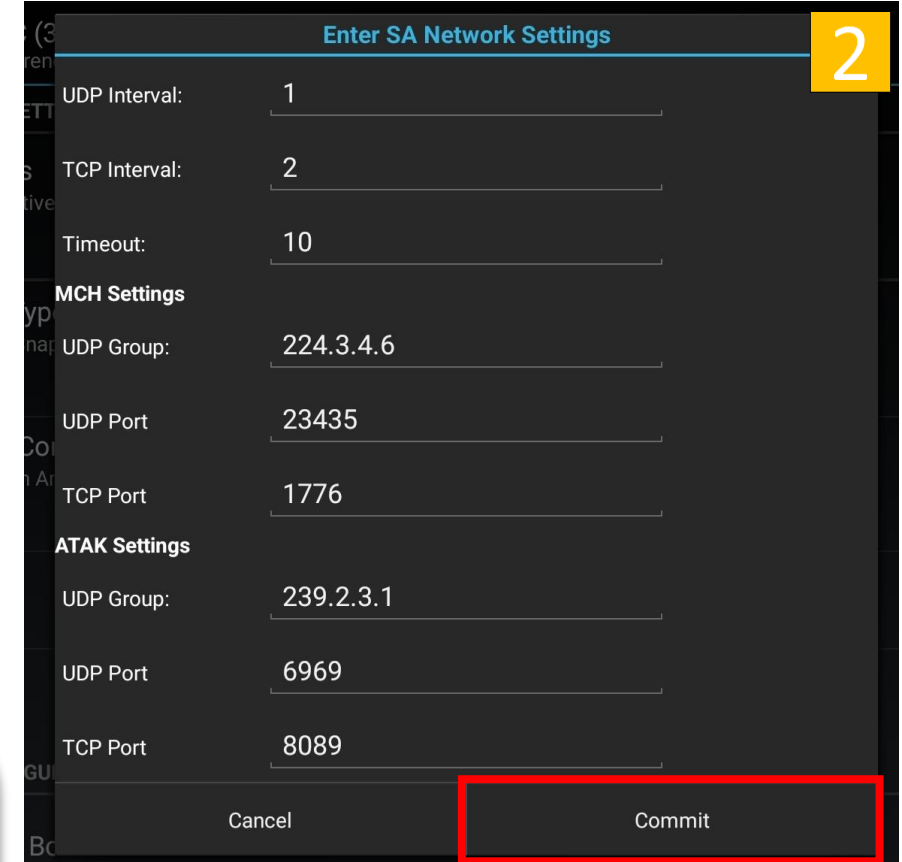
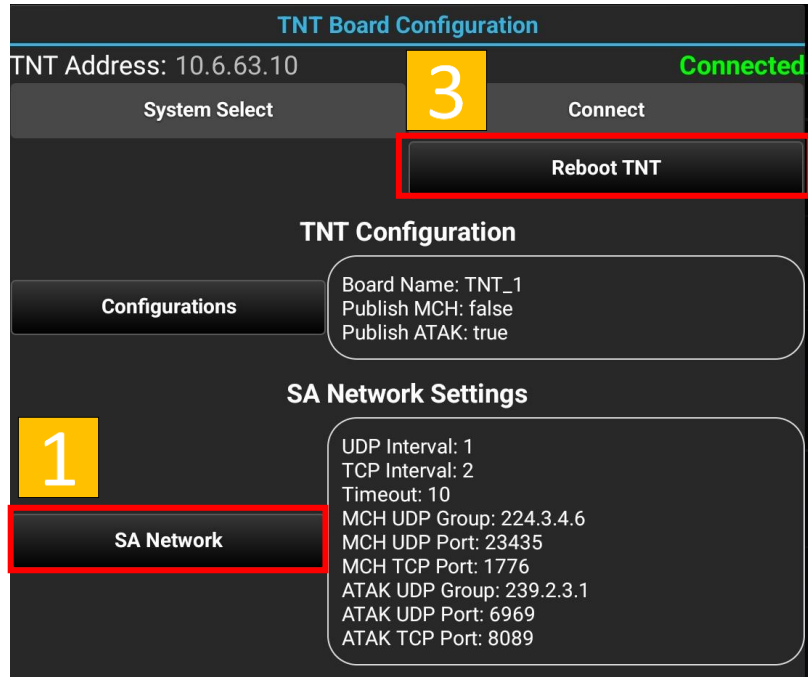
1. Locate and **tap** Configurations under Configuration Settings.
2. **Tap** Commit to apply changes when done configuring TNT Configurations.
 - Board Name - refers to the name of the Shield icon that is placed on the ATAK map. This is the name other users will see the TNT system as.
 - The SA Publish Type - will send situational awareness messages to either ATAK or MCH and can be set to publish to both (default setting)
3. You may continue to make changes to the board. When finished **Tap** the Reboot TNT button.



TNT™ Board Configuration

SA Network Settings

TNT™ Board Configuration – SA Network Settings



1. Locate and **tap** SA Network under SA Network Settings.
2. **Tap** Commit to apply changes when done configuring TNT SA Network Settings.

Note: Most users DO NOT NEED to change these values!

3. You may continue to make changes to the board. When finished **Tap** the Reboot TNT button.



TNT™ Board Configuration

Network Settings

TNT™ Board Configuration – Network Settings



Network Settings

1

Network

IP Address: 10.6.63.10
Netmask: 255.0.0.0/8
Gateway: 10.6.63.1
DHCP: false
Multicast: true
Unicast: false

Enter Network Settings

2

IP Address: 10.6.63.10

Netmask: 255.0.0.0

Gateway: 10.6.63.1

Netmask Input: Manual Slash

Toggle Gateway: On Off

Authoritative DHCP

On
 Off

SA Network Protocol

Off
 Multicast
 Unicast
 Both

Cancel **Commit**

Netmask: 8 Default: 8 Range: 8-24

Gateway: 10.151.53.1

Netmask Input: Manual Slash

Toggle Gateway: On Off

1. Locate and **tap** Network under Configuration Settings.

2. **Tap Commit** to apply changes when done configuring TNT Network Settings.

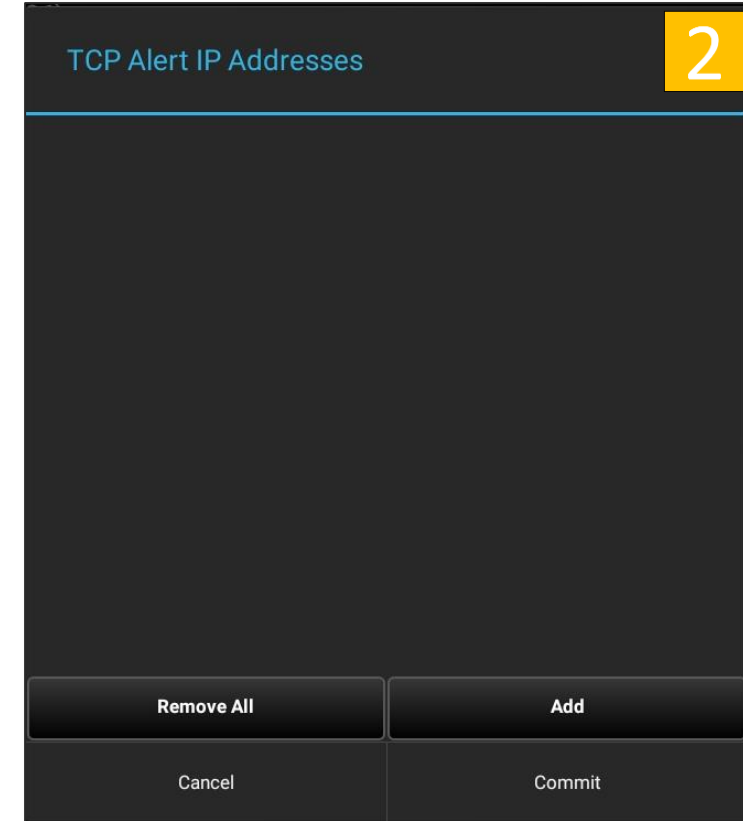
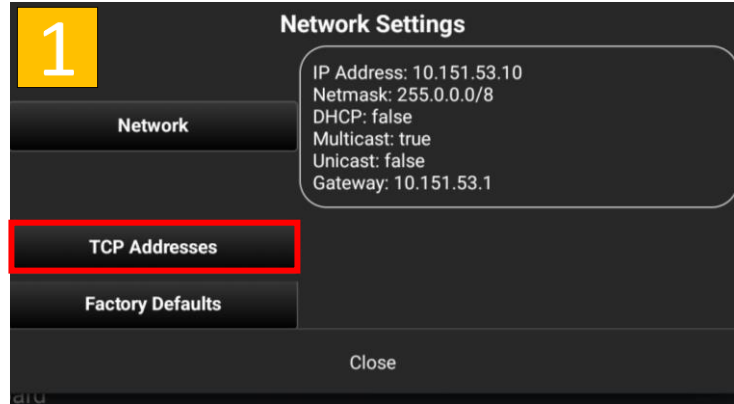
If your network configuration requires a Gateway IP Address select Unicast or Both from the Network Protocol Options

You may continue to make changes to the board. When finished **Tap** the Reboot TNT button.

Notice toggling gateway to On enables the gateways text field.

Notice changing netmask input changes the way the netmask is input.

TNT™ Board Configuration – TCP Addresses

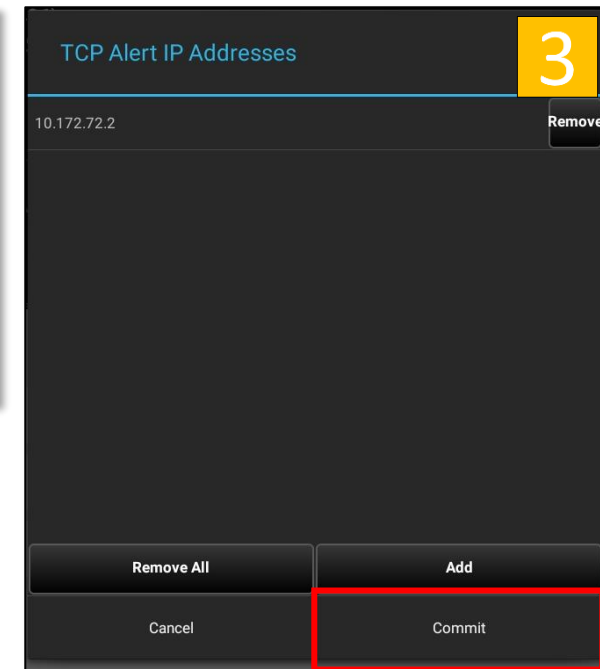
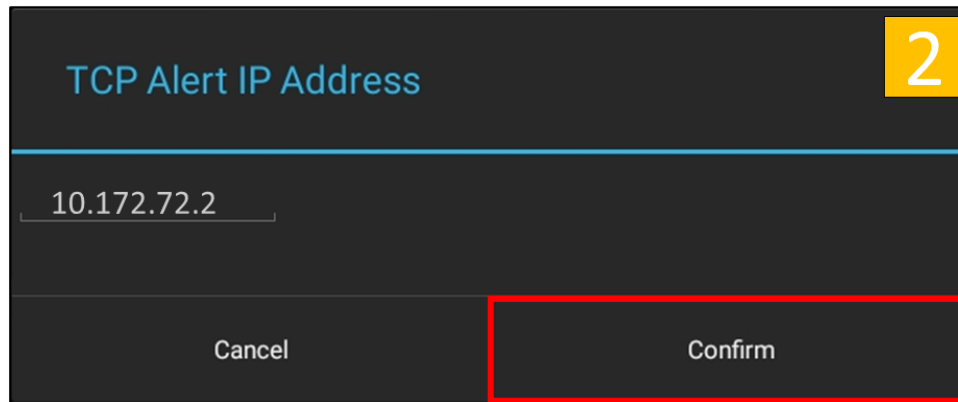


1. Locate and **tap** TCP Addresses under Configuration Settings
2. This menu will allow the user the ability to Add, Remove, and Commit IP addresses to receive TCP based alerts.

You may continue to make changes to the board. When finished **Tap** the Reboot TNT button.

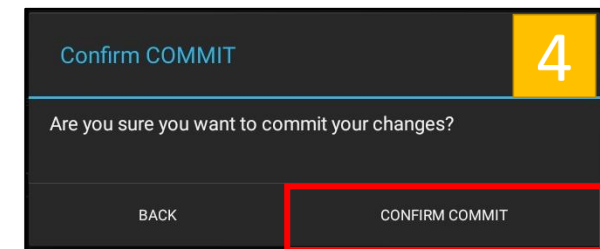
Button	Description
Remove All	Remove All IP Addresses in the list
Add	Add an IP address to receive TCP Alerts
Commit	Commit newly added TCP Addresses
Cancel	Cancel current actions.

TNT™ Board Configuration – Add TCP Address

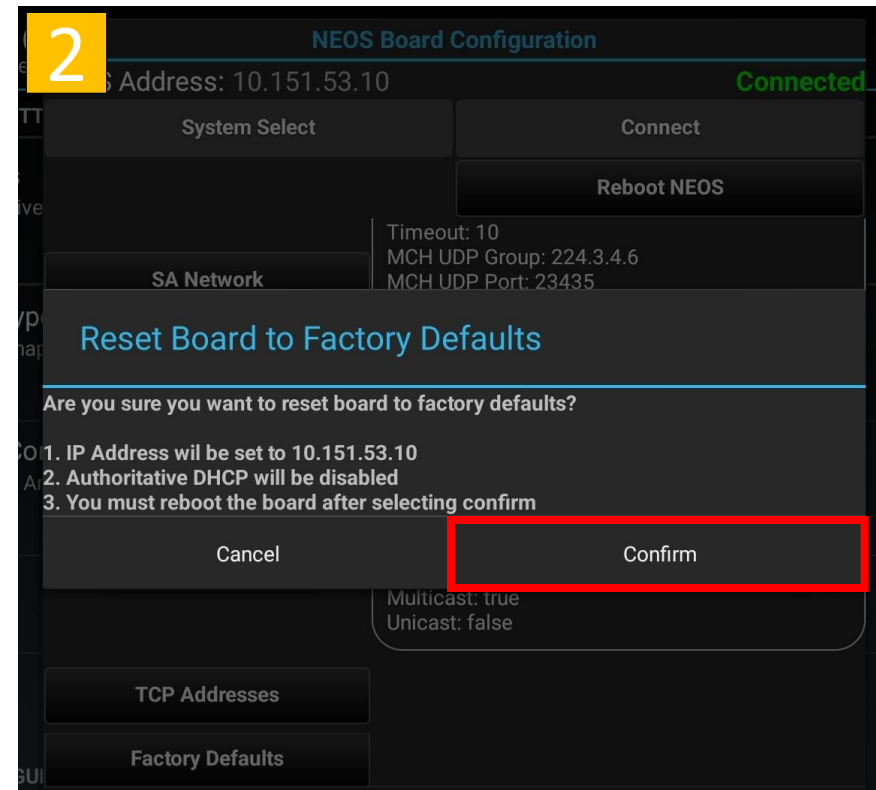
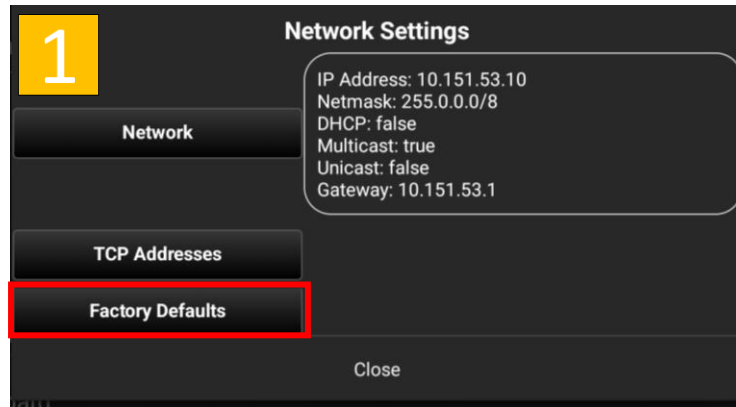


1. Locate and **tap** the Add button under TCP Alert IP Addresses Menu.
2. **Enter** an IP address to receive TCP Alerts then tap Confirm.
3. **Tap** Commit and then
4. Confirm Commit to add the IP address

You may continue to make changes to the board. When finished **Tap** the Reboot TNT button.

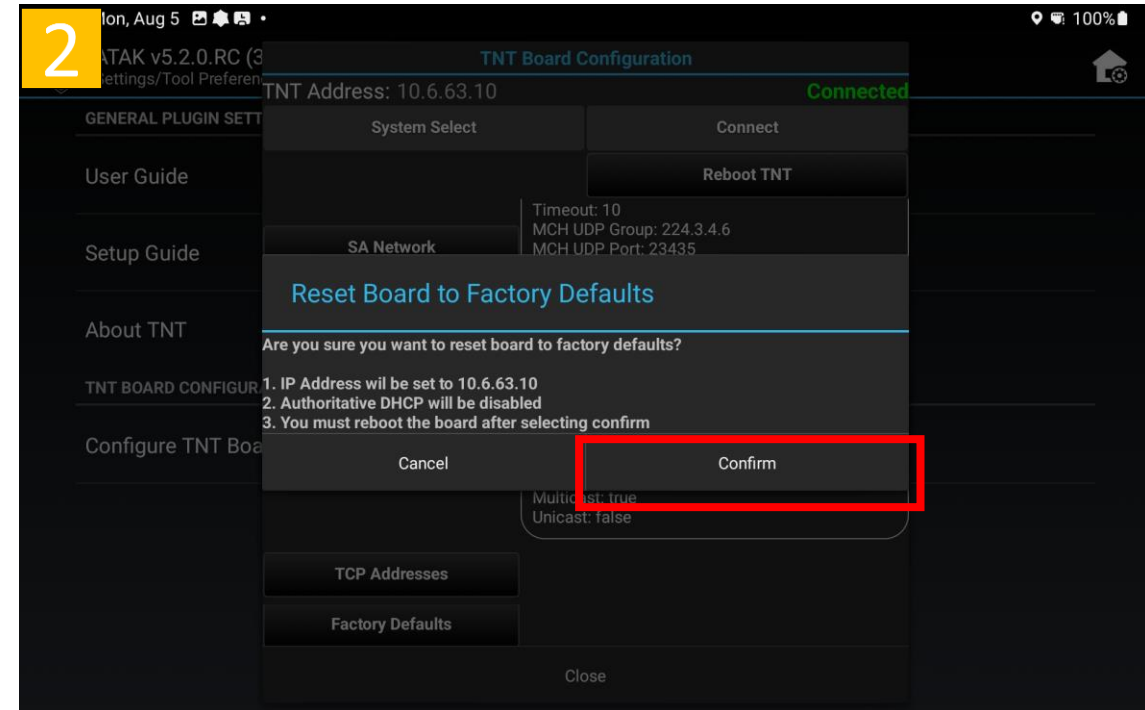
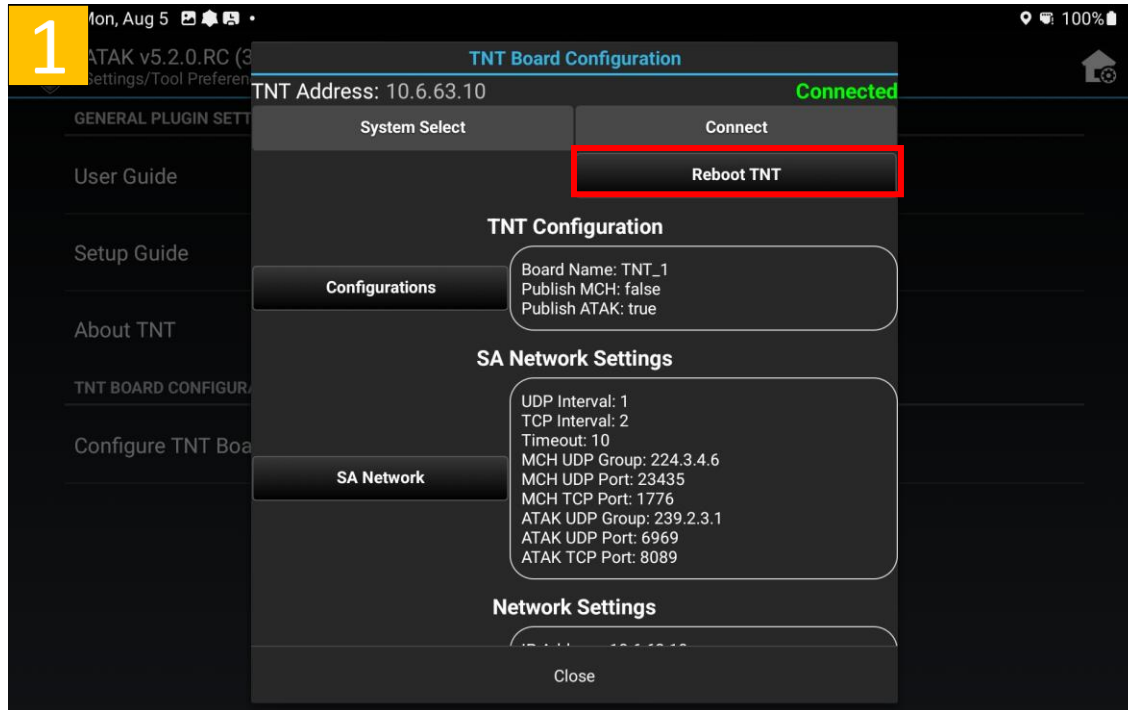


TNT™ Board Configuration – Factory Defaults



1. Locate and **tap** Factory Defaults.
2. The board will wipe out all changes you have made to it and revert to factory settings. Tap Confirm when you are ready.

TNT™ Board Configuration – Reboot



1. Locate and **tap** Reboot TNT.
2. **Tap** Confirm to initiate TNT system reboot.

