TNT[™] Standalone Android Application

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...

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This documents assumes the following:

- 1. The Reader has followed the steps found in the TNT[™] Setup Guide
- The Reader has the system set up and the EUD is receiving an IP Address from the TNT[™] System.



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Install TNT[™] Standalone App







- 1. *Tap* the *TNT Standalone App APK* file to begin installation.
- 2. Review the Permissions Statement then *tap Install*.
- 3. *Tap <u>Open</u>* once the installation is complete.

Note: The actual APK name may change. Also, you may have to adjust the security settings on your device to install this application.



Allow App Permissions

1	• 2	Location permission 3
Allow TNT to access photos, videos, music, audio, and other files on this device?	Allow TNT to access this device's location? This app may want to access your location all the time, even when you're not using the app. <u>Allow in settings.</u>	E TNT
Allow Don't allow Copylight Lettersteel	While using the app Only this time Don't allow	Location access for this app Allow all the time Allow only while using the app

- 1. *Tap <u>Allow</u>* when prompted to set "Allow TNT to access photos, media, and files on your Device?".
- 2. Tap <u>Allow in settings</u> when prompted to set "Allow TNT to access this device's location?"
- 3. Tap Allow all the time when prompted to set TNT "location permission"

Failing to allow these permissions will limit / prevent proper functionality of the TNT[™] System.

TNT[™] Home Screen







TNT[™] Standalone Android App: Select TNT

Select TNT







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* <u>Confirm</u> to continue.

Hand Jam TNT Setup	. 3
TNT Name: ManualEntryTNT http:// 10.6.63.70	,
Cancel	Confirm



TNT[™] Standalone Android App: Upload

Upload



- 1. *Navigate* to the file path on the TNT where you want to upload files and then and 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

Confi	rm Uplo	ad				2
/storage/em NEOS_Stand Size: 394849	ulated/0/TN alone_App_´ 95	T_Loader/ 1.0_19_JULY_	2024.pdf			
/storage/em Size: 184933	ulated/0/TN 34	T_Loader/NE	OS_MIL_S	ETUP_1.0_1 [,]	9_JULY_20	24.pdf
/storage/em Size: 522196	ulated/0/TN 58	T_Loader/NE	OS_ATAK_	Plugin_1.0_	19_JULY_2	:024.pd
(Cancel			Con	firm	
	Ð	5rftp/F Uploadin	rNT TP/DTED ng: n37.dt2	3		
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TNT[™] Standalone Android App : 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/TNT/downloads







TNT[™] Standalone Android App:: Manage

Manage





Ŷ	New Folder Name?	
Name:	Folder Name	
	Cancel	Confirm

 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

Confirm Delete		
NEOS_MIL_SETUP_1.0_19_JULY_2024 Size: 1.8 MB	.pdf	
E NEOS_Standalone_App_1.0_19_JULY_2024.pdf Size: 3.8 MB		
NEOS_ATAK_Plugin_1.0_19_JULY_202 Size: 5.0 MB	4.pdf	
Cancel	Confirm	







TNT[™] Standalone Android App: Preferences

Preferences: Overview



The TNT[™] Preferences allows the user to:

- Change App Orientation
- 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!

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TNT Preferences	
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C Landscape	
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About	
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User Guide	
Setup Guide Information	
Setup Guide	
TNT Board Configuration	
Configure	
Back	

Preferences: Orientation

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C Landscape		
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About		
User Guide Information		
User Guide		
Setup Guide Information		
Setup Guide		
TNT Board Configuration		
Configure		

- 1. User can adjust the orientation of the app.
 - 2. Portrait
 - 3. Landscape

This change requires the user restart the app.

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Size: 1.0 KB		
Size: 1.0 KB		
BRIEFS Size: 1.0 KB		
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Size: 1.0 KB		
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User Guide		
Setup Guide Information		
Setup Guide		
TNT Board Configuration		
Configure		



- 1. Locate and *tap* <u>About TNT[™]</u>Type under Other Settings.
- Tap <u>Close</u> to exit the About window. Continue to make changes to the preferences or tap <u>back</u> on the EUD to return to the main screen.

Preferences: User Guide

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TNT Preferences		
Orientation		
Portrait		
C Landscape		
Application Information		
About		
Jser Guide Information		
User Guide		
Setup Guide Information		
Setup Guide		
TNT Board Configuration		
Configure		

1. Locate and *tap <u>User Guide</u>* under General Settings.

- 2. Tap <u>Close</u> to exit the User Guide window.
- 3. Continue to make changes to the preferences or *tap* <u>back</u> on the EUD to return to the main screen.



Preferences: Setup Guide

	10:45 Mon, Aug 5 🖻 🖪 🔋 •
	TNT Preferences
	Orientation
	Portrait
	C Landscape
	Application Information
	About
	User Guide Information
	User Guide
ľ	Setup Guide Information
	Setup Guide
1	TNT Board Configuration
	Configure

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



Preferences: Board Configuration



 Warning
 2

 The options you are about to see modify values and scripts on the TNT Board. It is possible to corrupt the board.

 Do you wish to continue?

 Locked

 Locked

 Cancel



- 1. Locate TNT Board Configuration and *Tap <u>Configure</u>*
- 2. Read the warning message then *Tap* both *Locked* Buttons to set them to Confirm
- Tap Continue 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 <u>Reboot TNT™ Button</u>. Close the TNT™ App and relaunch once the EUD receives an IP Address from the TNT™ Board.

Proceed with caution

TNT Board Configuration		
TNT Address: 10.6.63.10	Connected	
System Select	Connect	
	Report TNT	
TNT Co	onfiguration	
Configurations Board Public	rd Name: TNT_1 ish MCH: false ish ATAK: true	
SA Netw	ork Settings	
SA Network WDP Interval: 1 TCP Interval: 2 Timeout: 10 MCH UDP Group: 224.3.4.6 MCH UDP Port: 23435 MCH TCP Port: 1776 ATAK UDP Group: 239.2.3.1 ATAK UDP Port: 6969 ATAK TCP Port: 8089		
Netwo	rk Settings	
Network IP Address: 10.6.63.10 Netmask: 255.0.0.0/8 Gateway: 10.6.63.1 DHCP: false Multicast: true Unicast: false Multicast: false		
TCP Addresses		
Factory Defaults		
	Close	

TNT[™] Board Configuration – Connect to Board







TNT[™] Board Configuration

Configuration Settings

TNT[™] Board Configuration – Configuration Settings



- 1. Locate and *tap <u>Configurations</u>* under Configuration Settings.
- 2. *Tap <u>Commit</u>* 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 <u>*Reboot TNT*</u> button.

Enter TNT Configurations			
Board Name:	TNT_1		
Select SA Publish T	уре		
Off			
ATAK			
О мсн			
O Both			
0	Cancel	Commit	



TNT[™] Board Configuration

SA Network Settings

TNT[™] Board Configuration – SA Network Settings

TNT Board Configuration		
TNT Address: 10.6.63.10	Connected	
System Select	5 Connect	
	Reboot TNT	
ТМ	IT Configuration	
Configurations	Board Name: TNT_1 Publish MCH: false Publish ATAK: true	
SA	Network Settings	
1	UDP Interval: 1 TCP Interval: 2 Timeout: 10 MCH UDD Croup: 224.2.4.6	
SA Network MCH UDP Group: 224.3.4.6 MCH UDP Port: 23435		
MCH TCP Port: 1776 ATAK UDP Group: 239.2.3.1 ATAK UDP Port: 6969 ATAK TCP Port: 8089		

- 1. Locate and *tap <u>SA Network</u>* under SA Network Settings.
- 2. *Tap <u>Commit</u>* 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 <u>Reboot TNT</u> button.

(3		Enter SA Net	work Settings		2
ETT	UDP Interval:	1			
6	TCP Interval:	2			
LIVE	Timeout:	10			
vn	MCH Settings				
na	UDP Group:	224.3.4.6			
Co	UDP Port	23435			
n Ai	TCP Port	1776			
	ATAK Settings				
	UDP Group:	239.2.3.1			
	UDP Port	6969			
GU	TCP Port	8089		1	
Bo	Cano	el	Co	mmit	



TNT[™] Board Configuration

Network Settings

TNT[™] Board Configuration – Network Settings



		Enter Netwo	ork Settings
Network Settings	IP Address:	10.6.63.10	
Netmask: 255.0.0.0/8 Gateway: 10.6.63.1 DHCP: false Multicast: true Unicast: false	Netmask:	255.0.0.0	
	Gateway:		
	Netmask Input:	Manual	Slash
1. Locate and <i>tap</i> <u>Network</u>	Toggle Gateway:	On	Off
under Configuration Settings.	Authoritative DHCP		
2 Tan Commit to apply changes	🔿 On		
when done configuring	Off		
TNT Network Settings.	SA Network Protocol		
	Off		
If your network configuration	Multicast		
requires a Gateway IP Address	 Unicast 		
select Unicast or Both from the	🔘 Both		
Network Protocol Options			
	Can	cel	Commit
You may continue to make changes			

to the board. When finished *Tap*

the <u>Reboot TNT</u> button.

nask:	.8	Default: 8 Range: 8-24	
eway:	10.151.53.1		
nask Input:	Manual	Slash	
gle Gateway:	On	◯ Off	

Notice toggling gateway to <u>On</u> enables the gateways text field.

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

Net

Gat

Net

Tog

TNT[™] Board Configuration – TCP Addresses



- 1. Locate and *tap <u>TCP Addresses</u>* 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 <u>*Reboot TNT*</u> button.

TCP Alert IP Addresses	2
Remove All	Add
Cancel	Commit

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

		TCP Alert IP Address	
1 Remove All	Add		
Cancel	Commit		
		Cancel	Confir
 Locate and <i>tap</i> the second tap of the second second	ne Add button under TCP ess to receive TCP Alerts t then to add the IP address make changes to the boa	P Alert IP Addresses Menu. then tap <u>Confirm.</u> rd. When finished Tap the	





Y

TNT[™] Board Configuration – Factory Defaults



Network	IP Address: 10.151.53.10 Netmask: 255.0.0.0/8 DHCP: false Multicast: true Unicast: false Gateway: 10.151.53.1
TCP Addresses	
Factory Defaults	
	Close

1. Locate and <i>tap</i> <u>Factory Defaul</u>	<u>ts</u> .
--	-------------

2. The board will wipe out all changes you have made to it and revert to factory settings. Tap Confirm when you are ready.

NEOS	S Board	Configuration	
Address: 10.151.53.10		Connected	
T System Select		Connect	
Ve		Reboot NEOS	
SA Network	MCH U	it: 10 DP Group: 224.3.4.6 DP Port: 23435	
Reset Board to Factory Defaults			
Are you sure you want to reset board to factory defaults?			
0 1. IP Address wil be set to 10.151.53.10 $_{\rm A}$ 2. Authoritative DHCP will be disabled 3. You must reboot the board after selecting confirm			
Cancel		Confirm	
	Multica Unicast	st: true :: false	
TCP Addresses			
Factory Defaults			

TNT[™] Board Configuration – Reboot



ddress: 10.6.63.10 Reboot TNT MCH UDP Group: 224.3.4.6 SA Network MCH UDP Port: 23435 **Reset Board to Factory Defaults** Are you sure you want to reset board to factory defaults? I. IP Address wil be set to 10.6.63.10 2. Authoritative DHCP will be disabled 3. You must reboot the board after selecting confirm Confirm Cancel Multicast. true **TCP Addresses Factory Defaults**

