



User Guide

Release 1

Release History

<i>Release</i>	<i>Release Date</i>	<i>Description of Changes</i>
1	8/19/2024	Initial Release

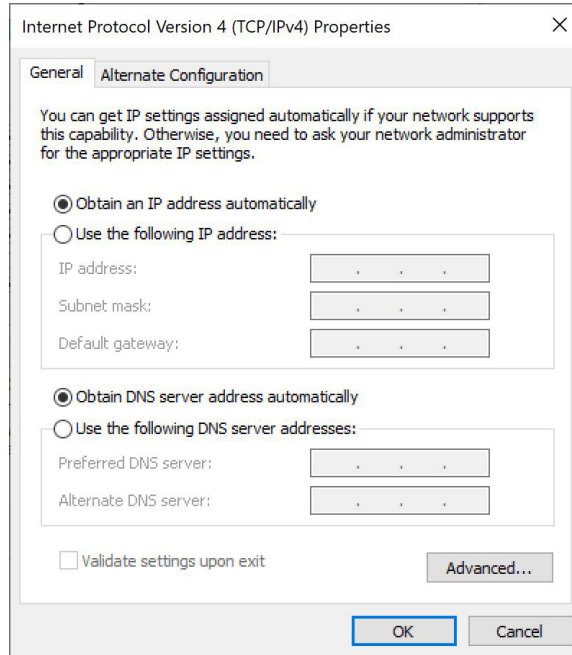
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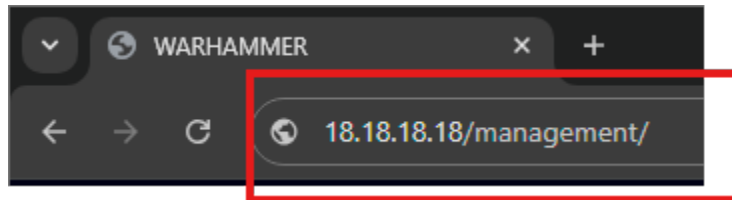
Login

To access the WARHAMMER user interface:

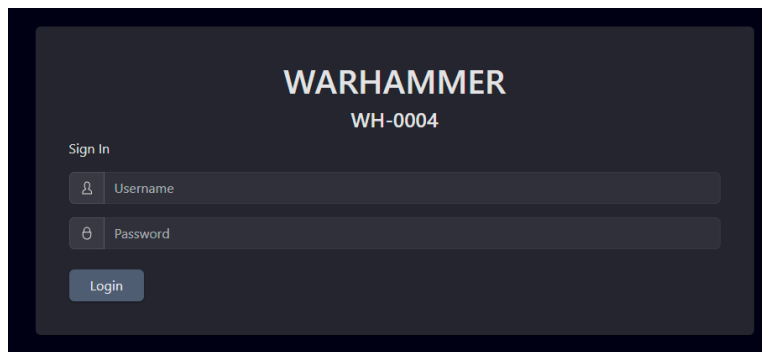
1. Apply power to WARHAMMER unit via the provided power supply.
2. Connect an Ethernet cable from your computer to either of the WARHAMMER's ports.
3. Set wired interface to "Obtain an IP Address Automatically".



4. Open an internet browser and navigate to the following: **18.18.18.18/management**



5. Login with the provided credentials:

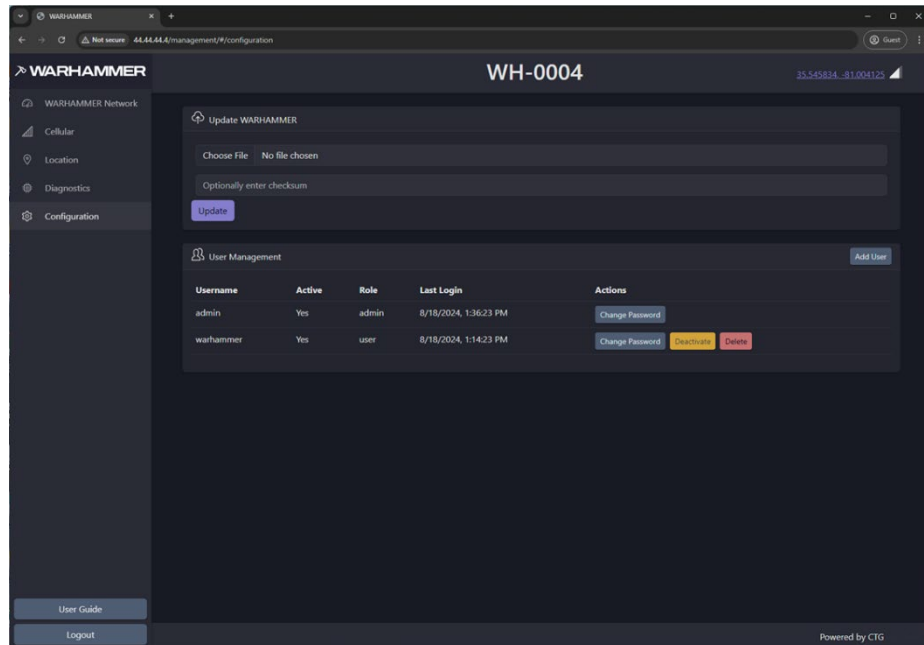


****Note:** If you are not a user with administrative privileges, you can skip the next section. **

Configuration

The Configuration page is divided into two sections titled *Update WARHAMMER* and *User Management*. This page allows a user with administrative privileges to perform any one or more of the following actions:

1. Software Update
2. Add/Delete User
3. Change Password



Software Update

If a software update is required, select “Choose File”, select the appropriate update file, then select “Update”. After approximately 10 seconds, logout and refresh your browser. The update will be applied upon the next user login.

User Management

This section allows the admin user to add/delete users and change passwords. Selecting “Change Password” will prompt the user to enter the current password, followed by the new password. These changes will take effect upon the next login session.

User Management					Add User
Username	Active	Role	Last Login	Actions	
admin	Yes	admin	8/18/2024, 1:36:23 PM	Change Password	
warhammer	Yes	user	8/18/2024, 1:14:23 PM	Change Password	Deactivate Delete

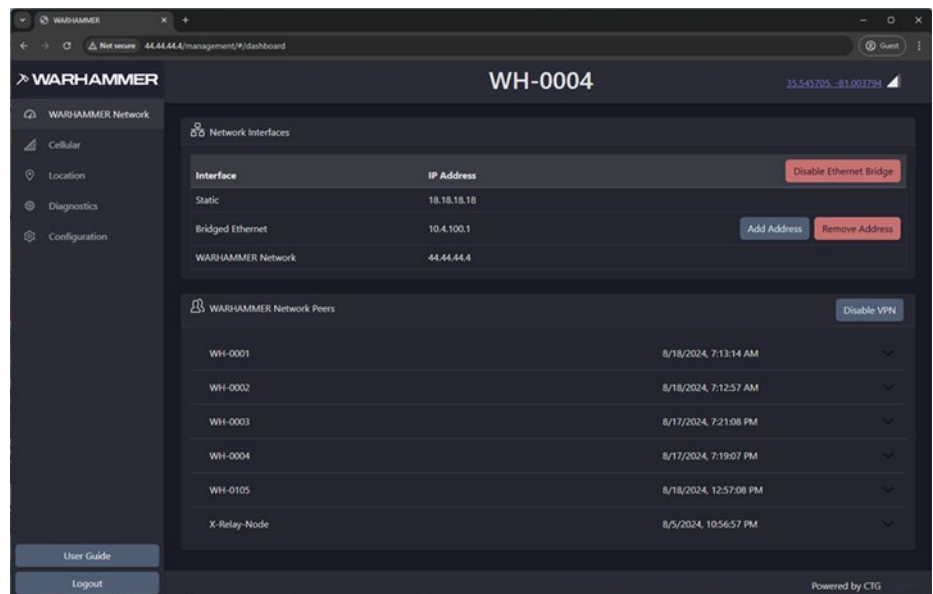
WARHAMMER Network

The WARHAMMER Network page acts as both a dashboard and the primary location to control your network settings. It's divided into two sections titled Network Interfaces and WARHAMMER Network Peers.

Network Interfaces

The default network interface configuration bridges the two ethernet ports. This allows the user the ability to get to the user interface via both ethernet ports.

This is the suggested configuration if utilizing the cellular radio to access the WARHAMMER Network. If accessing the WARHAMMER Network via ethernet, simply click the “Disable Ethernet Bridge” and connect the internet servicing ethernet cable into port 1 of the WARHAMMER.



Network Interfaces		
Interface	IP Address	Disable Ethernet Bridge
Static	18.18.18.18	
Bridged Ethernet	10.4.100.1	Add Address Remove Address
WARHAMMER Network	44.44.44.4	

Bridged Ethernet (Default)

Network Interfaces		
Interface	IP Address	Enable Ethernet Bridge
Static	18.18.18.18	
Port 1	192.168.38.73	
Port 2	10.100.100.1	Add Address
WARHAMMER Network	44.44.44.100	

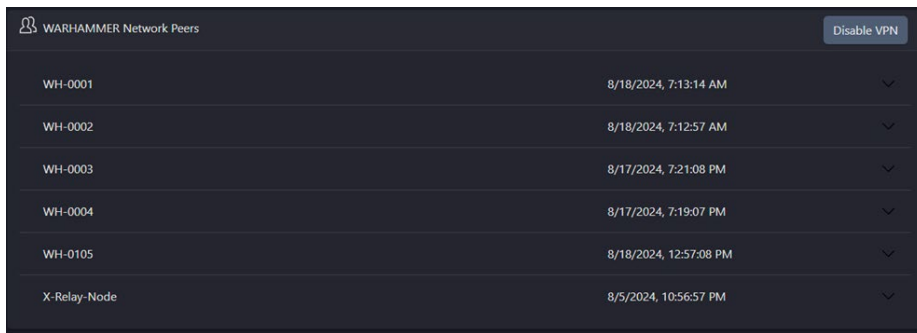
Unbridged Ethernet

To add an IP address to the Bridged Ethernet or Port 2, click on the “Add Address” button. This will open a dialog box that will allow you to enter an IP address. It is necessary to add IP addresses to the WARHAMMER so that they are in the same network as the LAN. You can add multiple IP addresses.

The removal of IP addresses from the Bridged Ethernet or Port 2, select “Remove Address” and then select the IP address you’d like to remove and select “Remove”.

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WARHAMMER Network Peers

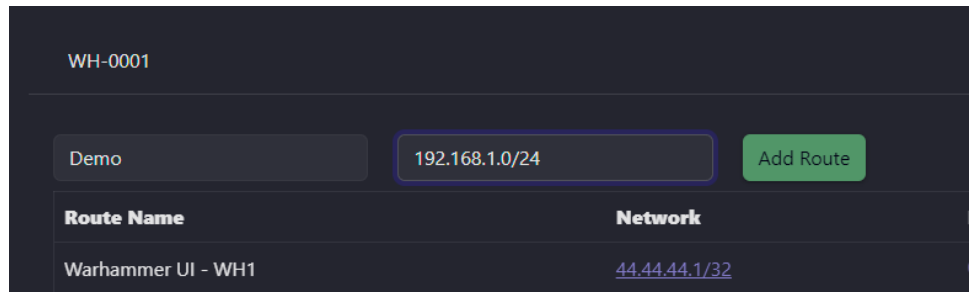


WARHAMMER Network Peers		Disable VPN
WH-0001	8/18/2024, 7:13:14 AM	▼
WH-0002	8/18/2024, 7:12:57 AM	▼
WH-0003	8/17/2024, 7:21:08 PM	▼
WH-0004	8/17/2024, 7:19:07 PM	▼
WH-0105	8/18/2024, 12:57:08 PM	▼
X-Relay-Node	8/5/2024, 10:56:57 PM	▼

This section offers a quick reference for all currently connected WARHAMMERS on the network. It displays each WARHAMMER's name and the date/time it first joined. Only active connections are shown, and the list automatically updates within a few seconds when a WARHAMMER disconnects.

Route Status

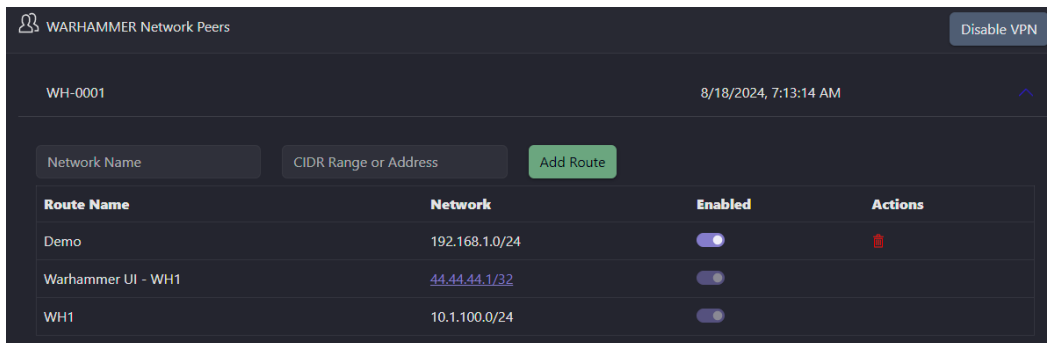
To view existing routes, click on any WARHAMMER peer to expand its details. From there, you can manage routes or access the web interface of a remote peer.



WH-0001	
Demo	192.168.1.0/24
Route Name	Network
Warhammer UI - WH1	44.44.44.1/32

Add/Remove Route

To add a route to WARHAMMER, enter a name, input the route IP address in CIDR notation (e.g., 192.168.1.0/24), and click "Add Route." The new route will then appear in the route status. You can enable or disable the route using the toggle switch. To remove it, click the red trash can icon.



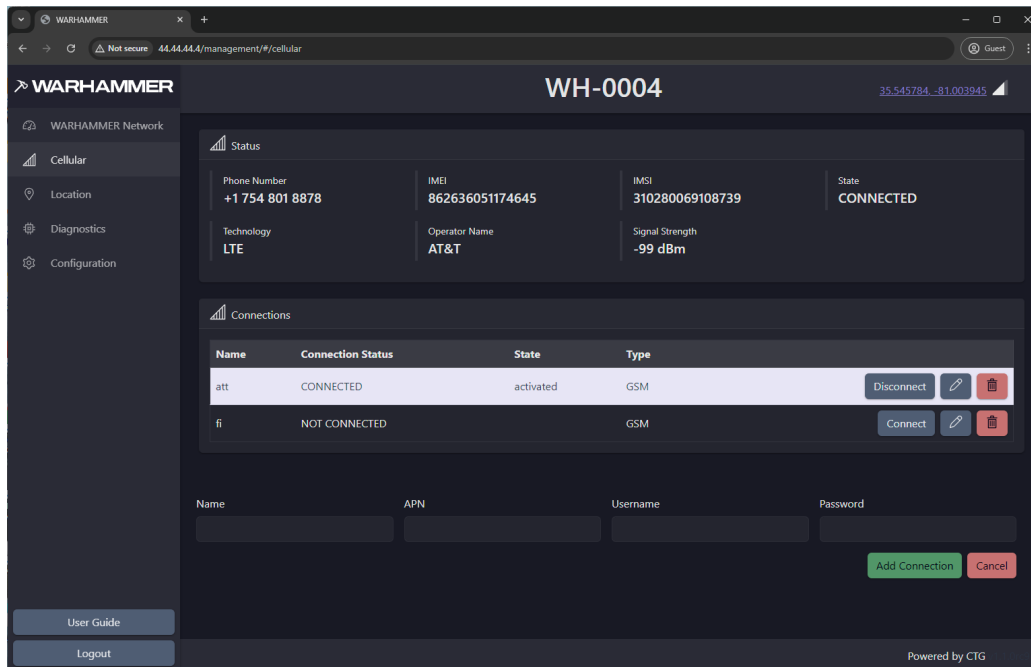
WARHAMMER Network Peers		Disable VPN
WH-0001	8/18/2024, 7:13:14 AM	▲
Network Name	CIDR Range or Address	Add Route
Route Name	Network	Enabled
Demo	192.168.1.0/24	<input checked="" type="checkbox"/>
Warhammer UI - WH1	44.44.44.1/32	<input checked="" type="checkbox"/>
WH1	10.1.100.0/24	<input checked="" type="checkbox"/>

Cellular

This page is divided into two sections to help you manage your cellular network settings. The first section provides detailed information about your current cellular connection, while the second section allows you to view and configure Access Point Name (APN) settings.

Status

This section provides key information about your cellular connection, including its current status, Radio Access Technology (e.g., GSM, LTE), signal quality, and mobile network operator. The connection can be in one of four states:



- SIM Missing:** This occurs when the device does not detect a SIM card in the slot or if the SIM card is not properly recognized.
- Registering:** The device is in the process of connecting to the mobile network after detecting a valid SIM card.
- Registered:** The device has successfully connected to the mobile network and is ready for communication.
- Connected:** The device is fully connected and actively transmitting and receiving data over the mobile network.

Connections

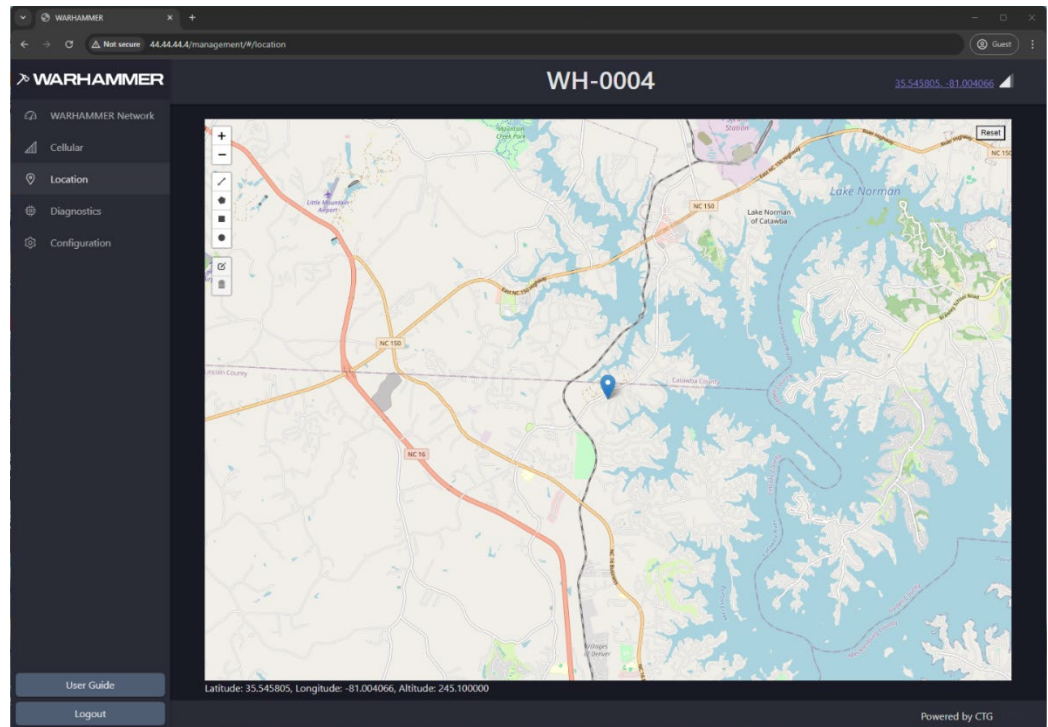
This section shows a list of manually added APN configurations. Each entry represents a unique set of settings that your device needs to connect to the internet through a specific cellular network.

Manual APN Entry

To configure your cellular network connection, enter a name in the "Name" field and the correct APN for the inserted SIM card. Then, click "Add Connection." Note that not all cellular providers require a Username and Password. If your provider does not require these, simply leave those fields blank.

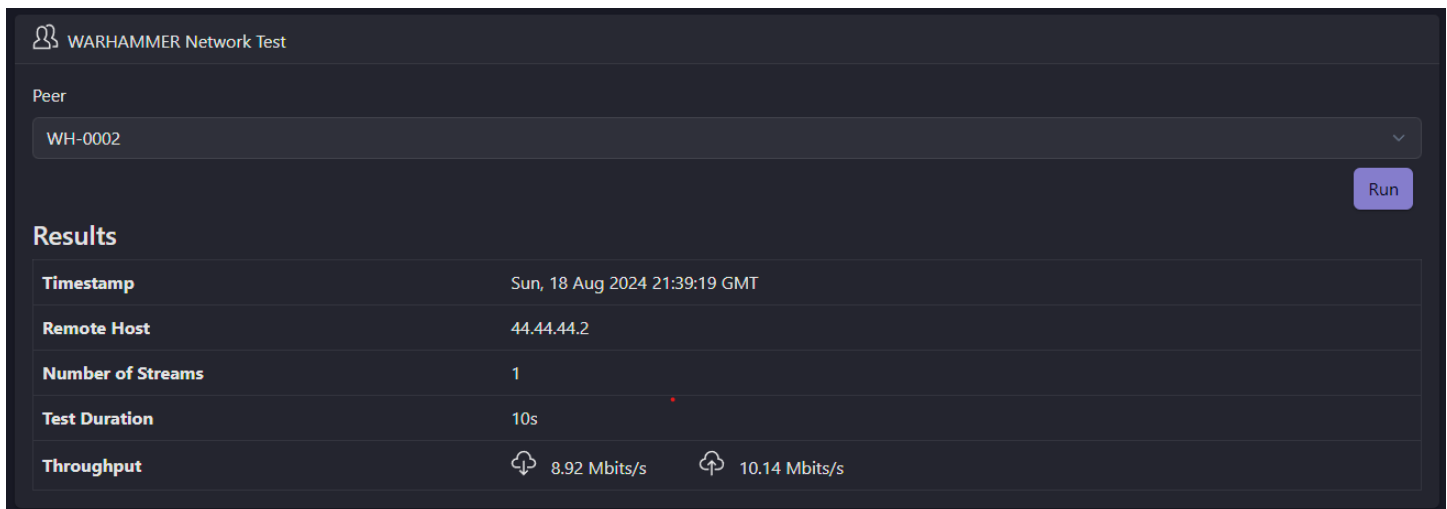
Location

This page displays the current location of your local device and updates every 5 seconds. This information is available only if the WARHAMMER can detect Global Positioning System (GPS) satellites.



Diagnostics

The WARHAMMER Network Test feature allows users to measure the data transfer speed between WARHAMMERS, helping evaluate network performance and data transmission capabilities. To begin, select a peer device from the drop-down list and click the "Run" button.



The test will run for 10 seconds, measuring data transfer between your device and the selected peer. After completion, results will be displayed on the screen, including both download and upload speeds. This information aids in assessing network efficiency and identifying potential bandwidth issues. Keep in mind that speed test results can vary due to network conditions and capabilities.

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