

WASP User Manual

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Overview

This guide outlines the basic procedures to get your WASP gateway device setup with a comprehensive overview on the monitoring application.

Requirements

To get started the following are required:

- 1. WASP-N or WASP-PoE device(s)
- 2. iOS device (recent device preferred)
 - a. Download the WASP Util app (see below)
- 3. CORE device(s)
- 4. A Wi-Fi network
- 5. Download the following files from the WASP product info_link
 - a. File: WASP-POE QSG-15
 - b. File: Getting Started with WASP-N_MultiLanguage

WASP Device Setup

To connect the WASP (N or PoE) please refer to the documents mentioned above and follow the outlined procedures.

- Getting Started with WASP-N_MultiLanguage
- WASP-POE QSG-15

WASP iOS Application

Download the WASP Util application from the Apple iTunes store. Developers of the application are North Pole Engineering. This application is required for the WASP Device setup stage (above).





Dashboard Overview

Brief overview of the key features on the WASP Util Application The main tabs for CORE monitoring purposes include:

- The 'WASP(s)' tab,
- 'Sensors' tab,
- And the 'CSV Capture' tab.

Each section will be further detailed in the next sections.



Cockpit view once entering WASP Util application



Ensure WASP connection is established

Before every monitoring session ensure your iOS device is connected to the WASP network to ensure successful CORE monitoring.

Connect your iOS monitoring device to the new **WASP network**. Network will be shown in your device's Wi-Fi settings.

09:58 Mon 15 Feb		중 84% 🔲
Settings	Wi-Fi	
TG Testlab GreenTEG Apple ID, iCloud, Media & Purchases	Wi-Fi	
Two-Factor Authentication 🚺 🚿	WASP-186C95 Unsecured Network	ç (j
Finish Setting Up Your iPad 🛛 🌖 🚿	MY NETWORKS greenTEG-Guest	≜ ≈ ()
🕞 Airplane Mode		
🛜 Wi-Fi WASP-186C95	Claudias iPhone	<u>କ</u> ତ (j)
Bluetooth On	greenTEG-Internal	₽ 중 (j)

To identify a successful connection, check the WASP(s) tab in the iOS application. A successful connection is shown with the green status bar. Green indicating a stable connection.

Wi-Fi Settings		WASP(s)		Query
	AP	Network: WASP-1860 192.168.240.10	C95	
WASP-N				
00:1D:C9:18:6C:95				ANT. 😣
3.9V Configuration Available				v5.4.33
WASP(s)	((•)) Sensors	Capture	Tuning	SIM Simulator

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CORE Monitoring – Sensors Tab

With a successful WASP device connectivity, CORE monitoring is then possible. All monitoring features are available on the 'Sensors' Tab.

Clear		Sensors (9)	Imported Filter (1) Sets
Со	re (9)		Parameter Graph
684 (0x2ac)		Skin: °C: 22.0, F: 71.6 Quality: Poor CORE: °C: -327.7, F: -557.8	PPS: 1 50 RSSI: -43
8669 (0x21dd)		Skin: °C: 34.3, F: 93.8 Quality: Not Used CORE: °C: 37.0, F: 98.6	PPS: 1.75 Filter Sensor view to only show CORE devices.
8692 (0x21f4)		Skin: °C: 28.6, F: 83.5 Quality: Poor CORE: °C: -327.7, F: -557.8	See image below for the CORE filter classification.
16330 (0x3fca)		Skin: °C: 18.0, F: 64.4 Quality: Not Used CORE: °C: 40.4, F: 104.7	PPS: 1.75 RSSI: -46
36690 (0x8f52)		Skin: °C: 33.0, F: 91.5 Quality: Not Used CORE: °C: 36.7, F: 98.1	PPS: 2.00 RSSI: -34
40508 (0x9e3c)		Skin: °C: 18.0, F: 64.4 Quality: Not Used CORE: °C: -327.7, F: -557.8	PPS: 1.75 RSSI: -49
46995 (0xb793)		Skin: °C: 22.2, F: 72.0 Quality: Poor CORE: °C: -327.7, F: -557.8	PPS: 2.00 RSSI: -14
56606 (0xdd1e)		Skin: °C: 20.6, F: 69.1 Quality: Not Used CORE: °C: -327.7, F: -557.8	PPS: 1.75 RSSI: -40
59093 (0xe6d5)		Skin: °C: 21.8, F: 71.2 Quality: Poor CORE: °C: -3277 F <u>: -5578</u>	PPS: 1.25 RSSI: -47
	WASP(s)	Sensors Capture	Tuning SIM Simulator

For multiple CORE monitoring, each CORE is represented by a separate row. More information on the displayed variables will be discussed in the next section.

Displayed information per CORE device

Each core device is characterised by its ANT ID and BLE (last 4 digits).

8669 (0x21dd)	CORE	Skin: °C: 34.3, F: 93.8 Quality: Not Used :: °C: 37.0, F: 98.6	PPS: 1.75 RSSI: -56
ANT ID BLE (last 4 digits) – shown in brackets.	Skin Qua COR	 Skin: Skin temperature Celsius and Fahrenheit Quality: Data quality, 'Not used' signifies that the CORE is not worn CORE: core body temperature in Celsius and Fahrenheit 	
	PPS: RSSI sign	Packets per second; measure o : Received Signal Strength Indica al strength.	f throughput from devices ator; measure of radio frequency

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Recording CORE data or Remove the device

The data from the CORE can be recorded and viewed in live graphs. To record a specific core, swipe left and select the Record function. To remove the device from the sensor list, select the Remove button.

Skin: °C: 33.1, F: 91.6 Quality: Good CORE: °C: 36.8, F: 98.2		PPS: 1.25 RSSI: -30 Remove Record
Clear Core (9) (0x2ac) 8669 (0x21dd) 8692 (0x21f4)	Sensors (9) Core:36690 Stop Recording Ct Sensor Graphs Ct Sensor Details Ct Sensor Actions	 Tap once on the CORE sensor row to see the following options. < Stop Recording: stops the record session. < Sensor graphs: Displays the live graphs. See below of a sample depiction. << The remaining functions have no effect on monitoring purposes, view as needed.
16330 (0x3fca)	Assign Sensor Settings	PPS: 1.50 RSSI: -48
36690 (0x8f52)	Skin: °C: 33.2, F: 91.8 Quality: Good CORE: °C: 36.8, F: 98.2	PPS: 1.50 RSSI: -31
40508 (0x9e3c)	Skin: °C: 18.0, F: 64.4 Quality: Not Used CORE: °C: -327.7, F: -557.8	PPS: 1.50 RSSI: -44
46995 (0xb793)	Skin: °C: 22.2, F: 72.0 Quality: Poor CORE: °C: -327.7, F: -557.8	PPS: 1.25 RSSI: -12
56606 (0xdd1e)	Skin: °C: 20.6, F: 69.1 Quality: Poor CORE: °C: -327.7, F: -557.8	PPS: 1.75 RSSI: -40
59093 (0xe6d5)	Skin: °C: 21.8, F: 71.2 Quality: Poor CORE: °C: -327.7, F: -557.8	PPS: 1.00 RSSI: -52
WASP(s)	((··)) Sensors Capture	Tuning SIM Simulator

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Data Download - CSV

To download CORE monitoring data, visit the CSV capture tab.

To download data, select CORE(s) as needed Can select all using the 'Select all' option. Or simply tap the CORE row for singular selection

	CSV Generator	Create CSV
	Select sensor to include in the CSV output	4
	Select All Select None	FILES:
Core		20210215142209 36690-Core cev
	Manufacturer Name, Cum Oper Time, Serial Number, Packets Per Second, Battery S Battery Voltage, Local Time Supported, Skin Temperature, Manufacturer ID, CORE [322.3 KB 20210215111649_36690-Core.csv 69.3 KB
7575	greenteg	20210215
	Core Temperature, RSSI, Local Time Supported, CORE Data Quality, Hr Supported,	олкв Once CORE(s) have been
8669	greenteg	20210215 2.3 KB selected, proceed to creating
	Core Temperature, UTC Time Supported, Hr Supported, Software Version, RSSI, Se Manufacturer Name, Cum Oper Time, Hardware Version, Packets Per Second, Batte Battery Voltage, Local Time Supported, Skin Temperature, Manufacturer ID, CORE (20210215 0.2 кв 20210215
8692	greenteg	^{0.4 KB} Following options are
	Hardware Version, ReceivedPkts, RSSI, Software Version, Manufacturer Name, Paci Number, Packets Per Second, AccumPktSent, RawData, Manufacturer ID, PacketDe	0.2 KB available:
	Model Number	Combined: all CORE data
16044	greenteg	20210215 to anthem
	Core Temperature, UTC Time Supported, Hr Supported, Hardware Version, RSSI, Sc	ол кв
	Local Time Supported, CORE Data Quality, Model Number	20210215 0.2 кв Individual: Each CORE one file
16300		20210215
	Core Temperature, Packets Per Second, RSSI, RawData, Skin Temperature	7.7 KB
16330	greenteg	20210215 Select Generate Options
	Core Temperature, UTC Time Supported, Hardware Version, Hr Supported, RSSI, So Manufacturer Name, Serial Number, Packets Per Second, Skin Temperature, RawDa Local Time Supported, CORE Data Quality, Model Number	20210215 0° 4.8 кв эк Combined File 20210215° 01
		KB Individual Files
	WASP(s) Sensors Capture	0' Combined & Individual
		KB
		01 _{кв} Raw ANT Files
		טו וים אין וים טובאים טומפאט טו טו טונאט טונאט טונאט טונאט טונאט טונאט טוגע טו

Before Creating the CSV, the CSV output variables can be edited. To do so simply left swipe the CORE information row and select/unselect the data parameters.



		CSV Generator		Create CSV
	Select sensor to include in the CSV output Select All Select None		FILES:	
Core	Manufacturer Name, Cum Oper Time, Serial Num Battery Voltage, Local Time Supported, Skin Tem	nber, Packets Per Second, Battery § nperature, Manufacturer ID, CORE [20210215142: _{322.3 кв} 202102151116	209_36690-Core.csv
7575	greenteg Core Temperature, RSSI, Local Time Supported,	CORE Data Quality, Hr Supported,	69.3 КВ 202102151112 0.1 КВ	47_8692-Muscle O;ygen.csv
8669	greenteg Core Temperature, UTC Time Supported, Hr Sup Manufacturer Name, Cum Oper Time, Hardware Battery Voltage, Local Time Supported, Skin Tem	ported, Software Version, RSSI, Se Version, Packets Per Second, Batte nperature, Manufacturer ID, CORE I	202102151112 2.3 KB 202102151112 0.2 KB 202102151112	147_8692-Core.csv 147_8669-Muscle Oxygen.csv 247_8669-Core.csv
8692	greenteg Hardware Version, ReceivedPkts, RSSI, Software Number, Packets Per Second, AccumPktSent, Ra Model Number	Version, Manufacturer Name, Pacł wData, Manufacturer ID, PacketDe	0.4 КВ 202102151112 0.2 КВ 20210215111	47_7575-Core.csv Each file can be viewed or
16044	greenteg Core Temperature, UTC Time Supported, Hr Sup Manufacturer Name, Serial Number, Packets Per Local Time Supported, CORE Data Quality, Mode	ported, Hardware Version, RSSI, S Second, Skin Temperature, RawDa I Number	5.4 KB 20210215111 0.1 KB 20210215111 0.2 KB	download with the following options:
16300	Core Temperature, Packets Per Second, RSSI, Ra	awData, Skin Temperature	20210215111 7.7 кв 20210215111	FILE MANAGER
16330	greenteg Core Temperature, UTC Time Supported, Hardwa Manufacturer Name, Serial Number, Packets Per Local Time Supported, CORE Data Quality, Mode	are Version, Hr Supported, RSSI, Sr Second, Skin Temperature, RawDa I Number	20210215111 2.7 кв 20210215111 4.8 кв 202102151112	rtec e, H ed, Delete Email
	WASP(s) ((·)) Sensors	Capture	Tuning	si, nPk View
				Open In

Final Note:

If you are interested in learning more about customizing your cockpit's functionalities and user experience, we are open to discuss initial considerations together over a call. Next steps can include a more in-depth discussion with the engineers from Northpole (WASP OEM) and/or with other potential gateway/cockpit providers for tailored features. We have evaluated other gateway providers for our CORE solutions; hence a desired solution can be delivered.

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