

HOW-TO

APNUS026 How to Get GNSS NMEA Data

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1. Glossary

GPS : Global Positioning System

GPS is the generic term used to describe the satellite-based timing and positioning system operated by

the United States Department of Defense (DoD), Galileo (European), GLONASS (Russian) and Beidou (Chinese).

NMEA: National Marine & Electronics Association

GNSS: Global Navigation Satellite System

SNMP: Simple Network Management Protocol

2. Introduction

By installing GPS devices as Acksys router on fleet vehicles or buses, fleet managers can track their trucks or buses' locations and statuses, as well as get important insights about their fleet's efficiency.

Fleet managers use GPS on a daily basis to keep track of their fleets and other assets. They can get information that helps them solve issues such as compliance, efficiency, and safety reason why Commercial fleets often use GPS to monitor their fleet vehicles.

3. Scenario details

Some models from the Acksys Router family (RailBox, AirWan, AirBox, etc..) have embedded an internal GPS module. This means that besides Cellular router conventional tasks (giving Internet connectivity to connected devices), they can also perform additional tasks with the GPS location.

First defined by the National Marine Electronics Association, NMEA is currently the most common data format supported by GNSS equipment. It allows connecting different types of hardware and software

4. Installation Overview and Prerequesites

Before we begin, let's overview the configuration that we are attempting to achieve and the prerequisites that make it possible in this How-To note :

- GPS Server: One Cellular AirBox router or any type of Acksys Cellular Router
- Connect GPS antenna on the GPS connector
- A valid SIM card from an ISP
- A GPS NMEA frame Receiver Client : WaveManager or any type of GPS received Server
- Laptop to configure the router



5. GNSS System types

There are different type of GNSS system in the world and the GNSS component embedded with Acksys Cellular router automatically can track position of the four existing satellite systems, GPS (American), Galileo (European) GLONASS (Russian), Beidou (Chinese)

The purpose of GNSS system is to provide signals from space and transmit timing and positioning data to the GNSS receivers located on Earth. The receivers further use these data to determine your precise location.

6. **GNSS Configuration architecture**

In this How-To, we will explain in detail how to access directly the Acksys router's internal GPS NMEA data from an external GPS client.



WaveManager or Any other GPS client



7. ACKSYS Router configuration

We may need the Acksys Cellular router to have a server prepared to the event of an external client receiver, so the GPS NMEA data is sent through it. For this configuration it will be enough to specify In this note, the WIFI interface will not be configured but we will use the default LAN setting and configure WAN Cellular interface.

Configuring WAN Interface

If you have familiarized yourself with the configuration scheme and we can start configuring the router using instructions provided in this section:

in GUI and go to Setup \rightarrow Physical Interfaces \rightarrow Enable the WAN Interface.

WAN INTERFACE				
	3G/4G/LTE Cellular radio (Cellular)	•		
	FRIENDLY NAME	ACTIONS		
	Cellular	Interface disabled		

- Click the "Edit" button located to the right and configure WAN Interface.
 - General Setup
 - Select IPv6 in IP family
 - Check Replace default route
 - Set 0 as routing metric 0 for default gateway
 - Check Use peer DNS in case DNS is on the LAN to use the ISP DNS
 - Save

WAN SETTINGS - CELLULAR

ELLULAR	
General Setup SIM 1 SIM 2 Advanced Settings	ITE
	Priendly name for your network
Default SIM card	● SIM 1 ○ SIM 2
	SIM slot selected at startup
IP Family	IPv4 v
Protocol	Wireless wide area network
Replace default route	🗹 💿 Replace the default route to use the cellular interface after successful connect
Default gateway metric	0
	Ocateway priority when several default gateways are configured; lowest is chosen. (Used only when a default gateway is defined on this interface)
Use peer DNS	Configure the local DNS server to use the name servers advertized by the cellular peer

• Select the correct SIM slot (in case of dual SIM) and fill out APN with the connection information provided by the ISP (in this case sfr SIM card is used): sl2sfr



	SETUP TOOLS STATUS		
PHYSICAL INTERFACES	WAN SETTINGS - LTE		
CELLULAR LAN 1	On this page you can configure a WAN interface.		
LAN 2	CELLULAR		
VIRTUAL INTERFACES			
BRIDGING	General Setup SIM 1 Advanced Settings		
NETWORK	SIM card 1 PIN code	<i>»</i> ••••	A <i>@</i> ●
VPN		Enter the correct SLOT 1 PIN code or you might lock your sim card!	
ROUTING / FIREWALL	SIM card 1 access point (APN)	sl2sfr	
SECURITY		Required except for LTE-only connections	
QOS	Authentication protocol	SIM only V	
SERVICES			

- Enable AT transactions logs for better understanding in troubleshoot in case of issue.
- Save and apply the config

	SETUP TOOLS STATUS	
PHYSICAL INTERFACES	WAN SETTINGS - LTE	
CELLULAR LAN 1	On this page you can configure a WAN interface.	
AN 2	CELLULAR	
IDGING	General Setup SIM 1 Advanced Settings	
WORK	Always disabled at startup	
	State at startup	Default v
TING / FIREWALL		Default is 'up' except for networks with protocol 'none'. Use 'down' if this network should be brought up only by event rules.
URITY	Log AT transactions at "debug" level	Use only at Support Service request, since it can flood the system log
S		

• Save and apply the config

To check NMEA frame in CLI, we need to enable Cellular Log Level to Debug for more GNSS information in log.

Go in Tools Logs Setting \rightarrow Cellular \rightarrow Log Setting

CELLULAR LOG SETTINGS (CELLULAR)		
Log level	Debug	

• Save and apply the config

Configuring WIFI Interface

In this note, the WIFI interface will not be enabled or used.

WI-FI INT	ERFACE					
V	Wi-Fi 4 (802.11n) V	Vireless interface				
	CHANNEL	802.11 MODE	SSID	ROLE	SECURITY	ACTIONS
	Automatic	802.11b+g+n	acksys	Access Point (infrastructure)	none	Interface disabled



Configuring LAN Interface

In this note, we will use the default IP address of the router 192.168.1.253 in this section:

Go in GUI and go to Setup \rightarrow Physical Interfaces \rightarrow LAN setting Interface.

NETWORK - LAN

On this page you can configure the network interfaces. You can b	ridge several interfaces by ticking the "bridge interfaces" field and tick the names of several network interfaces.
COMMON CONFIGURATION	
General Setup Interfaces Settings Advanced Settings Enable interface	
Network description	LAN (2) Friendly name for your network
Protocol	static v
IPv6-Address	
	OIDR-Notation: address/prefix
Default <u>IPv6</u> gateway	
Delegated prefix length	60 (2) The assigned prefix(es) size for this interface
Allowed prefix classes	all
IPv4-Address	192.168.1.253
IPv4-Netmask	255.255.255.0 🗸
Default <u>IPv4</u> gateway	
Default gateway metric	0
	Gateway priority when several default gateways are configured; lowest is chosen. (Used only when a default gateway is defined on this interface)
<u>DNS</u> server(s)	You can specify multiple IPv4 DNS servers here, press enter to add a new entry. Servers entered here will override automatically assigned ones
	assiyinga ones.

NETWORK - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and tick the names of several network interfaces.

COMMON CONFIGURATION	
General Setup Interfaces Settings Advanced Settings	
Bridge interfaces	🗹 💿 creates a bridge over specified interface(s)
Enable <u>STP/RSTP</u>	Warning: Some cautions must be taken with wireless interfaces, please see user guide
Enable LLDP forwarding	Image:
bridge VLAN	🗌 🕝 Enable VLAN management in bridge. You must configure the bridge VLANs before enabling this option (setup->bridging)
Interface	 WiFi adapter: WiFi (currently disabled) - acksys (network: lan) Ethernet adapter: LAN1 (network: lan) Ethernet adapter: LAN2 (network: lan)
МТО	1500



Configuring GNSS Agent

If you have familiarized yourself with the configuration scheme and have all of the device in order, we can start configuring the router using instructions provided in this section:

• Login to the router's WebUI and go to Setup \rightarrow Services \rightarrow GNSS Agent. Do this on the router:

Activate the embedded GNSS receiver and config	ure the gpsd server
PSD	
Enable	Allows internal services to use the GNSS
Use as time source	🗹 💿 Allows to use the GNNS as time source. This source has low precision, use NTP service for more precision
Serve external clients	Allows external users to connect to this gpsd server
isten port	2947
	Port on which gpsd will listen
Position logging period	4
	Number of seconds between positioning records in the system log (at 'info' level); 0 or empty to disable
URI for map link (Device Info page)	OpenStreetMap® link v
	(2) '%1' and '%2' in the URI are replaced by latitude and longitude in signed dotted-decimal notation, e.g. '48.000000'
	URI must not contain doublequotes

Enable

Allow use of the location service.

Serve external clients

Allow devices outside of the product to query its position using the gpsd protocol. If disabled, the position can still be queried with SNMP, displayed on the Status \rightarrow Device Information page, or logged to an external log server.

Listen port

Change TCP server port for external clients :2947

Position logging period

Periodically add an entry in the system log indicating current position:4

URI for map link

The current position that appears on the Status \rightarrow Device Information page is embedded in a web link, allowing for example to display a map using external services. Here you can choose among renown public services, or set up a link to your preferred web server. To disable the link entirely, choose **custom** and enter a dash or a hash mark (anything but a column). If the string **%1** appears in the link, it will be replaced with the latitude, and **%2** will be replaced with the longitude.



It is also possible to retrieve NMEA Data in local or on a remote GNSS Client as receiver if you want to read NMEA DATA on another device.

Login to the router's WebUI and go to Setup \rightarrow Services \rightarrow Statistic. Do this on the router:

- Enable GPS statistic
- GPS server IP address :127.0.0.1
- GPS server port: 2947
- Save and apply

ACKSYS TELEMETRY				
Allow to send information to WaveManager				
Enable telemetry				
Acksys telemetry server port	8628			
Output interval	5			
	(2) Acksys telemetry will check if there is any new statistics data available at this frequency. To avoid data accumulation, this valu should less than overall sample interval. (In seconds)			
Max buffer size	102400			
	(a) This value will determine the size of buffer and also how much data will be stored in case connection with server is lost. (In be a size of buffer and also how much data will be stored in case connection with server is lost.			
GPS STATISTIC	This value will determine the size of buffer and also how much data will be stored in case connection with server is lost. (In b the store is a store in the store is a store in the store is a sto			
GPS STATISTIC Allow to send GPS information to WaveManager	This value will determine the size of buffer and also how much data will be stored in case connection with server is lost. (In b the store is a store in the size of buffer and also how much data will be stored in case connection with server is lost. (In b the store is a store in the store is a			
GPS STATISTIC Allow to send GPS information to WaveManager Enable GPS statistics	This value will determine the size of buffer and also how much data will be stored in case connection with server is lost. (In be stored in case connection with server is lost. (In be stored in case connection with server is lost.)			
GPS STATISTIC Allow to send GPS information to WaveManager Enable GPS statistics GPS server ip address	This value will determine the size of buffer and also how much data will be stored in case connection with server is lost (in b 127.0.0.1			
GPS STATISTIC Allow to send GPS information to WaveManager Enable GPS statistics GPS server ip address	This value will determine the size of buffer and also how much data will be stored in case connection with server is lost. (In the server is lost, if it is adverse of a CPS server. If this product provides CPS service, please enter "127.0.0.1" The ip address of a CPS server. If this product provides CPS service, please enter "127.0.0.1".			

NOTE:

GPS Server IP address 127.0.0.1 because the Acksys cellular router provides GPS service and the Telelemetry service is used in order to send logs to WaveManager Server in this note.

Configuring WaveManager to access GNSS POSITION via Telemetry

In this note, we will also use WaveManager Server to receive GNSS position therefore we will enable Telemetry service. To enable Telemetry service on WaveManager in Setting \rightarrow Data Collect \rightarrow Operational \rightarrow enable Data Collect \rightarrow Save

	=	0	٠	All support support i
Products viewDashboards	Settings			
 Ref. configurations Dist. discovery 	NETWORK INTERFACES OPERATIONAL PREFERENCES GROUPS/ZONES DASHBOARDS SYSLOGS ALARMS NOTIFICATIONS USERS	Auto		Save Reset
C Settings	DATABASE Copyright © Acksys 2023	Image: Second	Acks	ys Communications & Systems.



8. STATUS

If you've followed all the steps presented above, your configuration should be finished and let have an overview on status of the Cellular and GNSS.

WAN Router Wireless: Status

In GUI and go to **Status** → **Cellular**

CELLULAR STATUS

Warning: scanning will break established connections which use that radio.

Cellular	Interfaces								
RADIO	MODEM INFORMATIONS	ATTACHED	OPERATOR MCC/MNC	BASE STATION LAC/CID	ACCESS TECHNOLOGY	INFRASTRUCTURE BAND CHANNELS	RSSI	BER	SCAN
Cellular	Password accepted IMSI: 208101188844640 IMEI: 866758042299632 model: EC25 rev A6.3 EMEA band: LTEFDD: B1/B3/B5/B7/B8/B20 LTETDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM: B3/B8	home	F SFR 208/10	46506 / 159942403	gsm FDD LTE	LTE LTE BAND 3 ARFCN: 1501	-67	0	Scan

WAN Router: Network Status

To verify the connection, click in Status>Network as shown in the screenshot below where the WAN interface receive Internet IP address.

In GUI and go to $\textbf{Status} \rightarrow \textbf{Network}$

_
мти
d 1500
nc



WAN Router: Network Testing

GNSS Agent can show position only if the WAN router get internet therefore we do network connectivity test with ping on google DNS works with success as shown the screenshot below:

root@GPS-Agent:~# ping 8.8.8.8						
PING 8.8.8.8 (8.8.8.8): 56 data bytes						
64 bytes from 8.8.8.8: seq=0 ttl=115 time=55.917 ms						
64 bytes from 8.8.8.8: seq=1 ttl=115 time=656.157 ms						
64 bytes from 8.8.8.8: seq=2 ttl=115 time=474.894 ms						
64 bytes from 8.8.8.8: seq=3 ttl=115 time=378.489 ms						
64 bytes from 8.8.8.8: seq=4 ttl=115 time=311.806 ms						
64 bytes from 8.8.8.8: seq=5 ttl=115 time=285.724 ms						
64 bytes from 8.8.8.8: seq=6 ttl=115 time=72.721 ms						
64 bytes from 8.8.8.8: seq=7 ttl=115 time=484.698 ms						
64 bytes from 8.8.8.8: seq=8 ttl=115 time=300.996 ms						
64 bytes from 8.8.8.8: seq=9 ttl=115 time=110.102 ms						
64 bytes from 8.8.8.8: seq=10 ttl=115 time=311.840 ms						
64 bytes from 8.8.8.8: seq=11 ttl=115 time=258.432 ms						
64 bytes from 8.8.8.8: seq=12 ttl=115 time=364.148 ms						
8.8.8.8 ping statistics						
13 packets transmitted, 13 packets received, 0% packet loss						
round-trip min/avg/max = 55.917/312.763/656.157 ms						

9. GNSS DATA COLLECT

WAN Router: CLI GNSS

To verify the NMEA data, we can enable SSH service in Tools \rightarrow Service \rightarrow enable SSH with the command logfile after enable GNSS log level to Debug.

Once you have configured the router, if you connect in CLI on the AirBox router IP, we will get the NMEA data in real time, 1 data per 4 second according to my configuration as shown in the screenshot below:

root@Acksys:∼# logread -f grep "2:3"
Fri Mar 31 14:40:20 2023 user.info : 2:3:20230331:144020.000:48.799547:2.351979:101.700000:0.000000:3.100000
Fri Mar 31 14:40:24 2023 user.info : 2:3:20230331:144024.000:48.799547:2.351979:101.6000000:0.000000:3.100000
Fri Mar 31 14:40:28 2023 user.info : 2:3:20230331:144028.000:48.799547:2.351980:101.600000:0.000000:3.100000
Fri Mar 31 14:40:32 2023 user.info : 2:3:20230331:144032.000:48.799547:2.351980:101.6000000:0.000000:3.100000
Fri Mar 31 14:40:36 2023 user.info : 2:3:20230331:144036.000:48.799542:2.352016:101.200000:0.000000:309.700000
Fri Mar 31 14:40:40 2023 user.info : 2:3:20230331:144040.000:48.799598:2.351893:101.100000:0.000000:309.700000
Fri Mar 31 14:40:44 2023 user.info : 2:3:20230331:144044.000:48.799594:2.351930:102.400000:0.000000:309.700000
Fri Mar 31 14:40:48 2023 user.info : 2:3:20230331:144048.000:48.799588:2.351942:102.0000000:0.000000:309.700000
Fri Mar 31 14:40:52 2023 user.info : 2:3:20230331:144052.000:48.799563:2.352001:100.900000:0.000000:309.700000
Fri Mar 31 14:40:56 2023 user.info : 2:3:20230331:144056.000:48.799571:2.351981:101.300000:0.000000:309.700000
Fri Mar 31 14:41:00 2023 user.info : 2:3:20230331:144100.000:48.799571:2.351982:101.300000:0.000000:309.700000
<u>F</u> ri Mar 31 14:41:04 2023 user.info : 2:3:20230331:144102.000:48.799571:2.351981:101.300000:0.000000:309.700000



Configuring MIB Browser to access GNSS NMEA Data via SNMP

Positioning information can also be read directly via SNMP on any MIB Browser and on any remote Management system by using OIDS from Acksys MIB from the gnss-current-position table as shown in the screenshot below.

0.4444		0.44					~ ~~
Address.	T92.168.1.253	0.11	2.0	Operations. Get r	Nexi	~	G G0
SNMP M	IBs		Result Table				
	acksysProductID	^	Name/OID	Value	Туре	IP:Port	
	🖶 🧧 c-key-management		gnssAllPositions.0 2:3:2023	0403:104425.000:48.817158:2.007729:122.800000:0	OctetString	192.168	. i 🗸 🎽
alarmSettings powerStatus networkStatus serviceStatus			firmwareExists.0 false (1)		Integer	192.168	. 🏻 🛍
			firmwareInfo.0		OctetString	192.168	. 🗋
			sysupgradeMissed.0 false (1)		Integer	192.168	. 🔎 🔎
			configHttpServer.0 disable (1)	Integer	192.168	-
			configHttpServerPort.0 0		Integer	192.168	. 🏼 🏴
	🐚 ss-webserver		configHttpsServer.0 disable (1)	Integer	192.168	. 🖻 🛎
	🔁 ss-dhcp		configHttpsPort.0 0		Integer	192.168	
	🍋 ss-ntp		configHttpsCertificate.0 1		OctetString	192.168	
	📲 ss-radius		configDhcpSubnet.3.108.97.110 lan		OctetString	192.168	
	🕀 🔤 ss-snmp		configNtp.0 0		Integer	192.168	-
	📲 ss-dns		configDnsRebindProtection.0 enable (2)	Integer	192.168	
	🕀 📙 ss-system		configDnsRebindLocalhost.0 enable (2)	Integer	192.168	
	🚍 🔜 ss-gnss		configCollectdEnable.0 enable (2)	Integer	192.168	
	😑 🔚 gnss-current-position		configCollectdSamplingInterval.0 5		Integer	192.168	-
	• position∨alid		configCollectdGPSEnable.0 enable (2)	Integer	192.168	
	🍋 fixdate		configCollectdGPSServerAddr.0 127.0.0.1	·	lpAddress	192.168	
	🍋 fixtime		configCollectdGPSServerPort.0 2947		Integer	192.168	
	🗨 latitude		configCollectdGPSConnTimeout.0 5		Integer	192.168	
	🍋 longitude		configCollectdGPSReqInterval.0 5		Integer	192.168	
	- De altitude		configCollectdWirelessScanResult.0 disable (1)	Integer	192.168	
	🔍 speedkmh		configCollectdlwinfo.0 enable (2)	Integer	192.168	
	CourseDegrees		configAcksysTelemetryEnable.0 enable (2)	Integer	192.168	
	🍋 fixdimension		configAcksysTelemetryServerPort.0 8628		Integer	192.168	
	gnssAllPositions		configAcksysTelemetryOutputInterval.0 5		Integer	192.168	
	ss-tcn		configAcksysTelemetryMaxBufferSize.0 102400		Integer	192.168	
	🗄 🔚 ss-async-sysupgrade		configAsyncUpgradeDoUpgrade.0 0		Integer	192.168	
	serviceConfiguration	*	configAsyncUpgradeTimerEnable.0 disable (1)	Integer	192.168	
Name	gnss-current-position	^	configAsyncUpgradeTimerEnable.0		Null	192.168	
OID	.1.3.6.1.4.1.28097.9.8.1	-	positionValid.0 true (2)		Integer	192.168	
MIB	ACKSYS-MIB	_	fixdate.0 2023040	3	OctetString	192.168	
Syntax			fixtime.0 104449.0	00	OctetString	192.168	
Access			latitude.0 48.81715	7	OctetString	192.168	
Status			longitude.0 2.007729		OctetString	192.168	
Def∨al			altitude.0 122.8000	00	OctetString	192.168	
Indexes		~	anaadlumh 0		OstatOtrina	400.400	~

. iso.org.dod.internet.private.enterprises.acksys.serviceConfiguration.sc-async-sysupgrade.configAsyncUpgradeTimerEnable.0

The string displayed in the system log and the string obtained through the 'gnssAllPositions' SNMP OID have the same format. It consists in a series of column-separated values in the following order:

Valid flag	1 if position is undefined, 2 if the following data is valid		
Dimension	2 if only latitude/longitude are known, 3 if elevation (altitude) is also valid, 0 or 1 if position unknown		
Date	Last fix date.		
YYMMDD (year, month, day) or empty if invalid			
Time	Last fix time. If time is available:		
	HHMMSS.ddd (hour, minute, second, dot, milliseconds).		
If time is unavailable:			
	sssssssss (integer number of seconds since $1/1/1970$) as known to the product. Always greater than 1000000.		
Latitude	±DD.dddddd degrees from equator, 6 decimal places, a minus sign means south of equator		
Longitude	±DD.dddddd degrees from Greenwich, 6 decimal places, a minus sign means west of Greenwich		
Altitude	HHH.hhhhhh Height above mean see level, in meters		



Speed	kkk.vvvvvv Horizontal displacement speed in kilometers per hour, 6 decimal places
Direction	DDD.dddddd degrees from true north, 6 decimal places, DDD ranges from 0 to 359

WAN Router: GNSS Status

You can retrieve the current position Via GUI in on "Device Information" page as shown in the screenshot below Status

RMWARE INFORMATION	
WaveOs version:	4.21.0.3-V4.22.0.1-V4.18.0.1-63-ge7f3cd96e4 (BETA version)
Boot loader version:	3.4.1.1
Firmware ID:	E2148.AC.1
SSH access:	enabled (by configuration)
Host name:	GPS Agent
Host name: Model:	GPS Agent AirBox/14
Host name: Model: Product version:	GPS Agent AirBox/14 V1
Host name: Model: Product version: Motherboard ID:	GPS Agent AirBox/14 V1 000019029fa8
Host name: Model: Product version: Motherboard ID: GNSS info:	GPS Agent AirBox/14 V1 000019029fa8 latitude: 48.81715815°
Host name: Model: Product version: Motherboard ID: GNSS info:	GPS Agent AirBox/14 V1 000019029fa8 latitude: 48.81715815° longitude: 2.0077294°

WaveManager: GNSS Status

We can retrieve the current position Via WaveManager on "Device Information" page (Latitude and Longitude) as shown in the screenshot below where.

WM		=	🗴 🌲 💩 All support support i
		New On line Rew config War	AirBox/14 ×
¢	Dashboards Ref. configurations		
- (;		□ Select All 🖉 × State × New configuration × Q. State : New configuration × 5	Description
		Group Model Serial Product Id Firmware Version	Discovery date 03/04/2023 09:57 Last connection 03/04/2023 10:12
		AirBox/14 000019029FA8 E2148.AC.1 4.21.0.3	IP Address 192.168.1.253 Mask 255.255.255.0
			Gateway 0.0.0.0 Group
			Product Id 000019029FA8 Firmware E2148.AC.1
		and the second	Version 4.21.0.3 Latitude 48,817159417
			Longitude 2,0077302 Description GPS Agent
			✓ Roles list
			< ×
*	Settings	Copyright © Acksys 2023. All rights reserved.	Acksys Communications & Systems.

Email : support@acksys.fr