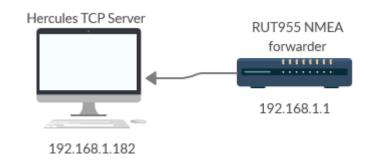


NMEA Data Collecting / Sending to Server

For this example, we are using RUT955 router and Hercules software to read incoming data.

Make sure PC's firewall is not blocking incoming connections on port used.

Configuring PC with Hercules software for NMEA forwarding



- 1. Open Hercules
- 2. Select TCP Server
- 3. Enter **Port** (For this example we are using port 3000)
- 4. Click Listen

Setup utility by HW-group.com		_		\times
UDP Setup Serial TCP Client TCP Server UDP Test Mode About				
Received data				
2	Port		3	ien
	TEA autho TEA key 1: 0102 2: 0506	0304 3: 0708 4:	090408 0D0E0F	
	Client con 09:11:55: 09:17:22: 09:17:38: 09:18:05: 09:18:30: 09:18:23: 09:19:23: 09:19:23: 09:19:23:	192.168.1 All conne 192.168.1 192.168.1 192.168.1 192.168.1 192.168.1 192.168.1	1.1 Client ctions clo 1.1 Client 1.1 Client 1.1 Client 1.1 Client	SEC DOI DOI DOI DOI DOI
− Send				-
Cursor decode	Send		Ugra 1W-group	
Lursor decode Server settings			s SETUP	
DA 10 Redirect to UDP			ersion 3	

Now your PC will listen for any connections on port 3000



Configuring NMEA forwarding on router

Go to Services > GPS > NMEA

ONIKA	Status - N	etwo	1	Services	System
3 N	MEA HTTPS A	NVL A	VL	VRRP Web Filter MQTT	ıg
arding	Enabled			NTP RS232/RS- VPN	485
	Hostname		68.1	Dynamic D SMS Utilitie	es
	Por Protoco		2	SMS Gates GPS Hotspot	way
arding cac	he			CLI Wake on L	AN
	Туре	ram	~	Auto Rebo	
	Maximum sentences	5000	_	Modbus USB Tools	
cting				QoS Input/Outp	ut
	Enabled			inputoutp	ut .

- 1. Check Enabled
- 2. Enter your PC's IP as Hostname
- 3. Enter the same **port** you entered in Hercules (In this example port 3000)
- 4. Check which data you want to forward to your PC (In this example we are forwarding all the data)
- 5. Click Save



Мар	General	NMEA	HTTPS	AVL	AVL I/O	GPS Geofencing			
NMEA forwarding									
	Hostname 192.168.1.182								
			3		3000				
			Pr	otocol	TCP 🗸				
NMEA	forwarding	cache		Туре	ram 🗸				
		Max	kimum sen		5000				
NMEA	collecting								
	-		Er	abled [
NMEA	sentence s	ettings							
4	Forwa	arding enab	led	Forv	varding inter	val	Collecting enabled	Collecting interval	
GPGSV				5				5	
GPGGA				5				5	
GPVTG				5				5	
GPRMO				5				5	
GPGSA				5				5	
GLGSV	′ 🛛			5				5	
GNGSA				5				5	
GNGNS				5				6	
GAGS	′ 🗹			5				5	
PQGSV	/			5				6	
PQGSA				5				5	
								5 Save	Л

Now all selected GPS data will be sent to Hercules:

UDP Setup Serial TCP Client TCP Server UDP Test Mode About			
Beceived data	Server status		
The oldest data was removed. Continue 00, A, 5440.028749, N, 02515. 334995, F, 0.0, 107.9, 200819, 5.3, E, A*37 SGPGSA, A, 2, 05, 25, 29, 31, , , , , , , 1.7, 1.4, 0.9*32 SGPGSV, 4, 1, 13, 02, 06, 052, 18, 05, 29, 061, 26, 16, 25, 306, 19, 25, 25, 150, 41*75 SGPGSV, 4, 2, 13, 26, 50, 299, 22, 29, 62, 082, 30, 31, 24, 232, 32, 09, 03, 348, *7A SGPGSV, 4, 13, 51, ., 13, 4*78 SGPGSV, 4, 13, 51, ., 13, 4*78 SGPGGA, 071325.00, 5440.028642, N, 02515.334914, E, 1, 04, 1.4, 137.7, M, 28.0, M, , *6F SGPVTG, 107.9, T, 102.6, M, 0.0, N, 0.K, A*29 SGPGSV, 4, 13, 51, ., 16, 02, 06, 052, 19, 05, 29, 061, 29, 21, 48, 206, 28, 25, 25, 150, 41*79 SGPGSV, 4, 2, 13, 26, 50, 289, 22, 29, 62, 09, 21, 48, 206, 28, 25, 25, 150, 41*79 SGPGSV, 4, 13, 13, 12, 66, 50, 29, 9, 62, 29, 21, 48, 206, 28, 25, 25, 150, 41*79 SGPGSV, 4, 13, 51, ., 34*78 SGPGSV, 4, 4, 13, 51, ., 34*78 SGPGSV, 4, 4, 13, 51, ., 34*78 SGPGSV, 4, 13, 61, .0, 5440.028600, N, 02515. 334927, E, 1, 05, 1.4, 137.7, M, 28.0, M, , *64 SGPSVG, 107, 9, T, 102.6, M, 0.0, N, 0.0, K, A*29 SGFBKC, 071334.00, 5440.028600, N, 02515. 334927, E, 1, 05, 1.4, 137.7, M, 28.0, M, , *64 SGPGSV, 4, 13, 51, ., 34*78 SGPGSSA, 4, 13, 51, ., 35, 50, 28, 10, .0, K, A*29 SGFBKC, 071334.00, A, 5440.028600, N, 02515. 334927, E, 0.0, 107.9, 200819, 5.3, E, A*38 SGPGSSA, 4, 1, 13, 02, 06, 052, 18, 05, 29, 61, 27, 21, 48, 208, 27, 25, 25, 150, 41*79 SGPGSSV, 4, 1, 13, 02, 06, 052, 18, 05, 29, 61, 27, 21, 14, 208, 27, 25, 25, 150, 41*79 SGPGSV, 4, 1, 13, 02, 06, 052, 18, 05, 29, 61, 27, 21, 14, 233, 36, 09, 03, 348, *7E SGPGSV, 4, 11, 30, 20, 60, 52, 18, 05, 29, 62, 02, 23, 31, 24, 233, 36, 09, 03, 348, *7E SGPGSV, 4, 11, 30, 20, 60, 52, 18, 05, 29, 62, 09, 31, 24, 233, 36, 09, 03, 348, *7E SGPGSV, 4, 11, 30, 20, 60, 52, 18, 05, 24, 60, 74, 9, 74, 49 SGPGSV, 4, 11, 30, 20, 60, 50, 28, 28, 061, 2	Client count 0300 TEA authorizati TEA authorizati TEA key 1: [01020304 2: [05060708 Client connection 09:17:38: 192: 09:18:38: 192: 09:18:38: 192: 09:18:38: 192: 09:18:38: 192: 09:19:39: 192: 09:19:39: 192: 09:19:19: 09:20:15: 192: Clients count: C	n 3: 090/ 4: 0000 zation n status nnections 168.1.1 Cli 168.1.1 Cli 168.1.1 Cli 168.1.1 Cli 168.1.1 Cli 168.1.1 Cli	closer A ent col ent col ent col ent col ent col ent col ent col ent col
Send			
Cursor decode HEX Decimal Decoder Input DA T0 F Redirect to UDP		wu.HW-gr rcules SET	oup.com



Configuring NMEA collecting

You can also collect NMEA data for later use.

Prerequisites:

1. Inserted USB flash or MicroSD card into router and

Configure Collecting:

Go to Services > GPS > NMEA

- 1. In NMEA collecting check Enable
- 2. Set location of USB Flash/MicroSD car (In this example location is **/mnt/mmcblk0p1/nmea.txt** nmea.txt can be any filename you want)
- 3. Enable collecting on data you want to collect (In this example we collect all the data)
- 4. Click Save.

NMEA collecting Image: Construction of the second secon							
NMEA sentence settings							
	Forwarding enabled	Forwarding interval	Collecting enabled	Collecting interval			
GPGSV		5		5			
GPGGA		5		δ			
GPVTG		δ		δ			
GPRMC		δ		δ			
GPGSA		δ		δ			
GLGSV		δ		δ			
GNGSA		δ		δ			
GNGNS		δ		δ			
GAGSV		δ		δ			
PQGSV		δ		δ			
PQGSA		5		5			
				4 Save			



Now, NMEA data should be collected and saved into your USB flash or MicroSD card and you can view it by connecting to the router using SSH and executing a command or inserting USB flash/MicroSD card into your PC.

Reading file by connecting via SSH:

cat /mnt/mmcblk0p1/nmea.txt (Applicable only for this example as we specified our path to file as /mnt/mmcblk0p1/nmea.txt)

If you configured a different path the syntax would be cat /path_to_file

