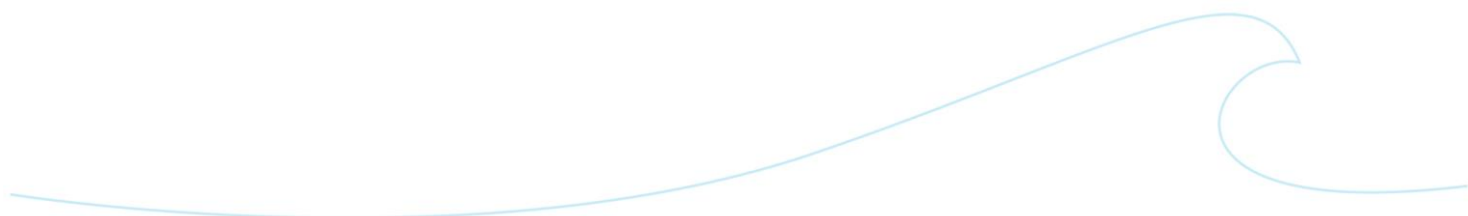




NAVIPAC

RAW DATA

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1 Introduction

The **Raw Data** program is a client network application that is a part of the NaviPac NT SW package.

The program can be started from in the NaviPac - Online program's View menu: **Raw Data...** or from the toolbar icon:



The **Raw Data** view is an independent GUI program that is intended to be used when installing new instruments to verify that the data looks as expected.

This program allows the operator to inspect the various raw data information on all sensors/ports, e.g. display of raw ASCII data, number of bytes per seconds and communication interpretation status.

Furthermore it is possible to change various communication parameters.

It also can be used if some LOP data is suddenly missing in the NaviPac - Online program and alarms are generated.

Then the first place to check is the port where the instrument is connected to.

You can do that by opening the menu item **Select instrument by port** option in the **NaviPac Configuration** program and see which port is used for which instrument.

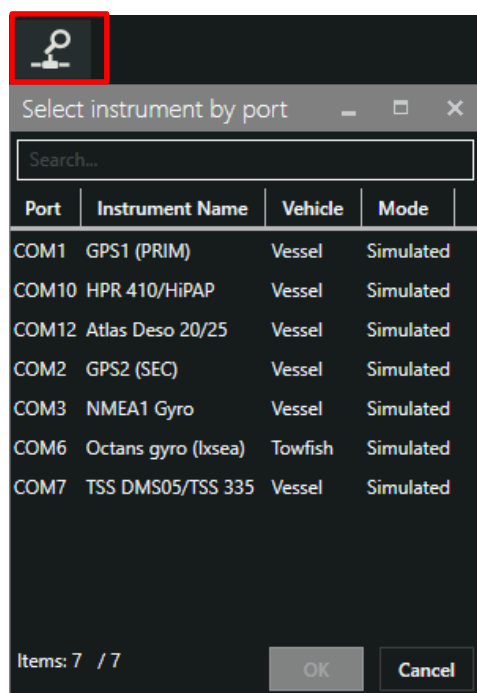


Figure 1 **Select instrument by port** option in NaviPac Configuration

2 Main Windows

The window can only display data from one port at the time.

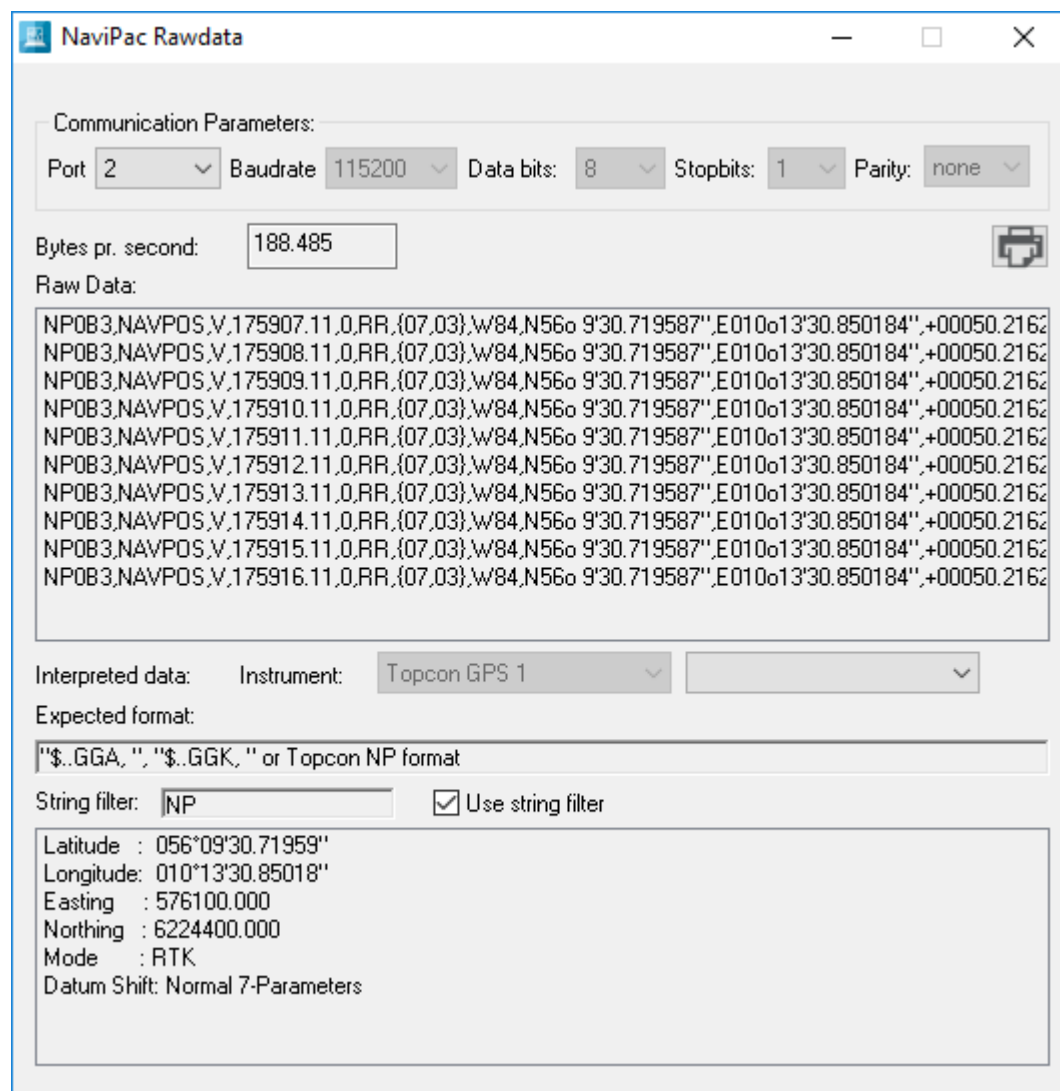


Figure 2 RawData GUI in NaviPac

Note: RawData is rather time consuming and should only be used for mobilisation and debugging.

Port:

In this list, the operator selects which port to monitor.

The Communication Parameters reflect the set-up in the **NaviPac Configuration** program.

Note: Only ports configured in NaviPac Configuration/View/Display Ports that have an instrument connected can be selected. The port numbering can be confusing if the system consists of both real and simulated data. This utility is only intended for real data set-up!!

Baud Rate:

This field displays the corresponding set-up of baud rate, as chosen in NaviPac Configuration/View/Display Ports

Data bits:

This field displays the corresponding set-up of data-bits, as chosen in NaviPac Configuration/View/Display Ports.

Stopbits:

This field displays the corresponding set-up of stop-bits, as chosen in NaviPac Configuration/View/Display Ports.

Parity:

This field displays the corresponding set-up of parity, as chosen in NaviPac Configuration/View/Display Ports.

Bytes per second:

This attribute gives the average number of bytes per second received from the instrument. The measurement will be performed over a period of 10 seconds.

Raw Data:

This list window displays the raw data received on port as either ASCII texts (e.g. TSS332) or hexadecimal numbers (e.g. gyro). For ASCII texts, all command bytes will be display by the corresponding text (e.g. <CR>).

Instrument:

This field displays the corresponding system type (e.g. GPS No 1). If the interpretation fails (see Interpreted Data), the operator may select another type in the right part of the list to see if it fits better.

To perform a global change in system set-up, the operator must restart NaviPac from NaviPac Configuration.

Note that the selection will not disturb the ordinary data collection.

Expected format:

Show short notation for the expected incoming telegram.

String filter:

String filter that is set in NaviPac configuration program, if NaviPac is setup to look for certain leading string patterns to be able to distinguish between useful and uninteresting

strings, e.g. \$GPGGA.

The string filter indicates that all other strings are to be ignored.

Use string filter:

RawData displays all incoming strings. If selected then the system put's a | in front of all strings that normally would be thrown away.

Interpreted Data:

This small sub-window will display how the last line has been interpreted (if possible), as it e.g. for the GPS will display:

- Latitude
- Longitude
- Easting
- Northing
- Mode

Note:

No correction is applied, e.g. values cannot be compared directly with data in other NaviPac windows. E.g. GPS data is shown without delay and datum shift.