

TC47 Test TW calc with STW

Belongs to Suite(s): TS18 NMEA simulator ...

Case Type: Functionality

Label(s): windows

Test Quality:

EXCELLENT Defects Closed Fixed

Assign To: Petri Makijarvi

Case Priority: Medium

Estimate: 15

Is Automated

Precondition

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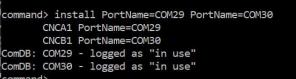
There shall be a NMEA simulator on which the sentences VHW for STW, MWV for AWS and AWA, HDG for HDT shall be fully controlled to be static and not moving in any way. (In this test case NMEA Simulator http://www.kave.fi/Apps/ is used - there are few steps which are specific to its version, if new versions or other products exists, or other simulator is used, one can skip those steps without a record other than for instruction for the future tests).

At the end of test we make a conversion sanity check using true wind converter and vector visualization application http://www.starpath.com/freeware/truewind-setup.exe - on other platforms similar on-line services can be used.

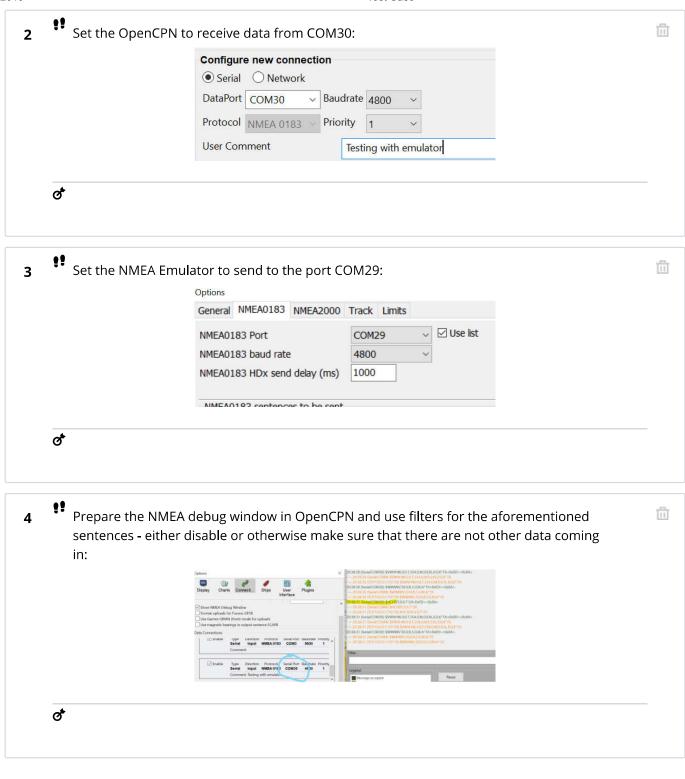
Steps 1 Set up the com0com port for tl

Click "Tab" or "Shift + Tab" to navigate grid ?

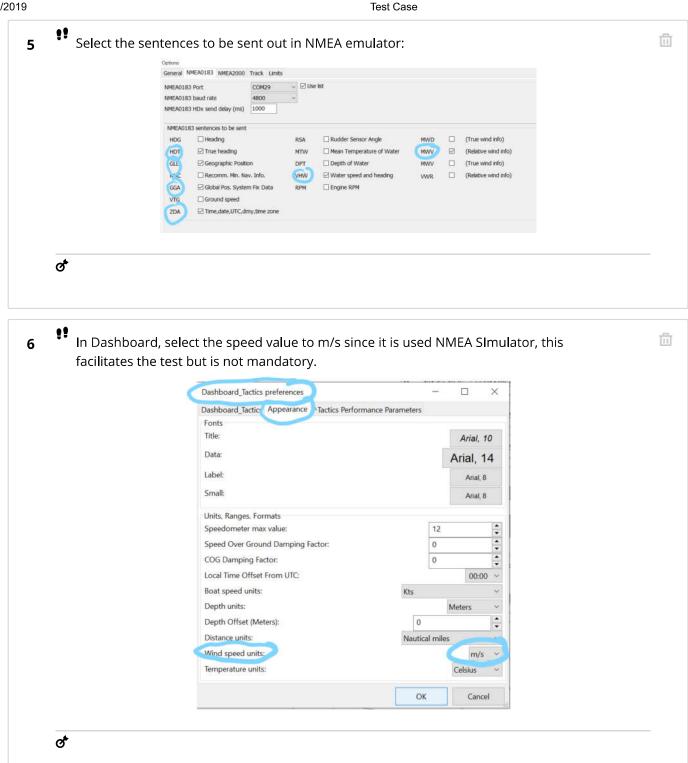
Set up the com0com port for the simulator as follows



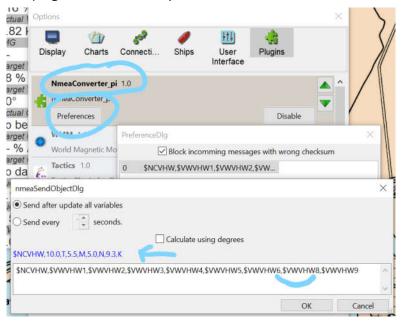
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11/24/2019

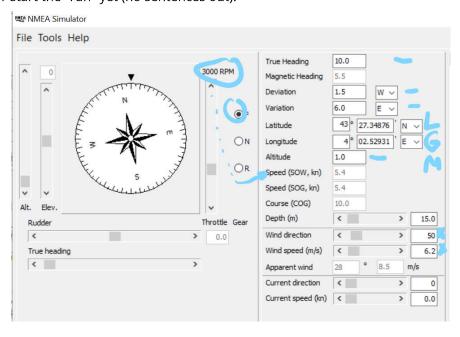


7 This step is optional to compensate a bug in NMEA emulator's output of VHW sentence, extra comma makes checksum to fail (version March 2019 concerned). We use NMEAConverted plugin as follows to skip the extra comma:



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Prepare the NMEA emulator to send the values which you can select freely but here's an example. Note that you need some throttle (despite the wind!) to make the boat to move. Do NOT start the "run" yet (no sentences out).



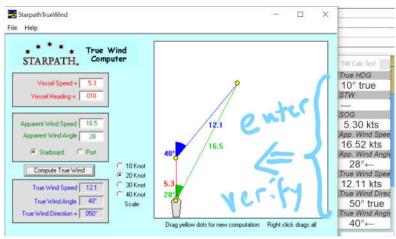
o^t

Prepare a dedicated dashboard like this (it will be used in the next test case also), start the "run" on NMEA emulator and observe that you get the same values as indicated by the NMEA emulator and the NMEA sentences:



PASS or FAIL

Convert the result to knots and make an inverse sanity check using an external tool (or your calculator - which will increase the test time).



PASS or FAIL

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Remove VHW sentence from the NMEA Simulator sent sentences. Verify that after 10 seconds, the STW and the true wind values indicate that that the STW has disappeared.

PASS or FAIL

Add Step

RESULTS	DEFECTS REQUIREMENTS			
Status	Test Plan Run	Assigned To	Updated At个	Actions
$m{\mathcal{C}}$ Pending	TPR87 dashboard_tactics_pi_	pl 🥞 Petri Makijarvi	3 days ago	区
▶ Skip	TPR85 dashboard_tactics_pi_	_st 🥞 Petri Makijarvi	about a month ago	区
$oldsymbol{\mathcal{C}}$ Pending	TPR84 dashboard_tactics_pi_	_st 🥞 Petri Makijarvi	2 months ago	区
♂ Pending	TPR83 dashboard_tactics_pi_	_si 🥞 Petri Makijarvi	2 months ago	区
♂ Pending	TPR82 Signal K HDG sentenc	e t 🥞 Petri Makijarvi	2 months ago	区
	«	(1 2 3 4 > »		

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