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## **Test Case** 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

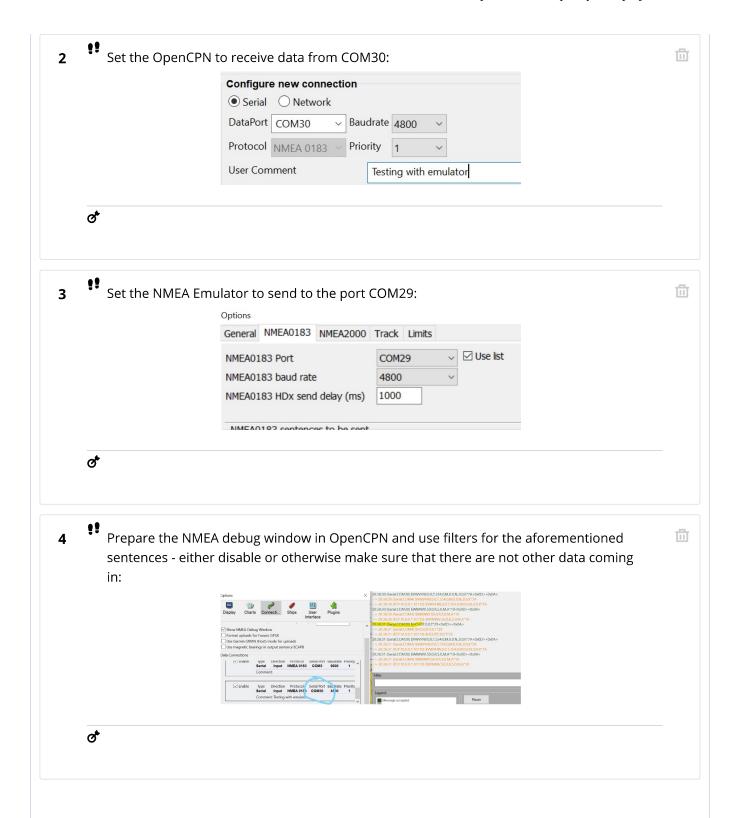
Is Automated

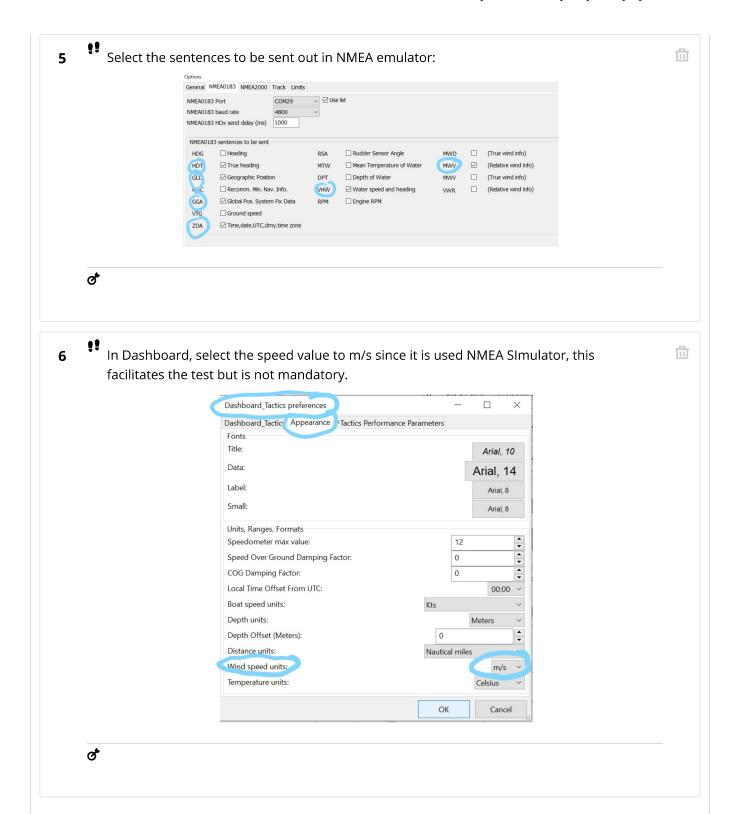
## **Precondition**

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.

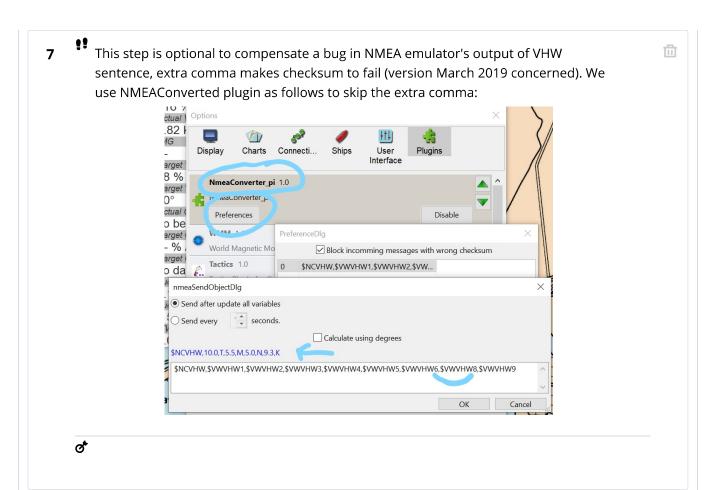




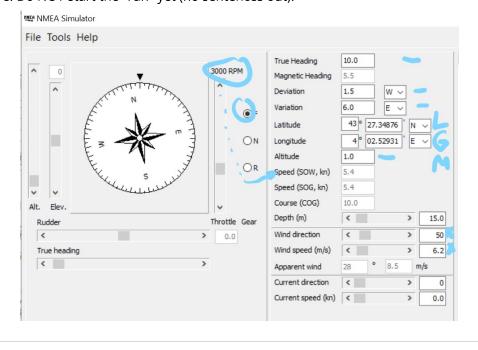


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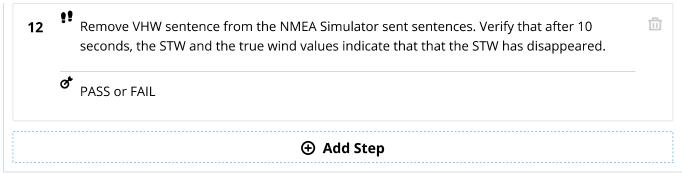
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Prepare the NMEA emulator to send the values which you can select freely but here's an example. Note that you need some throttle (despite the wind!) to make the boat to move. Do NOT start the "run" yet (no sentences out).



	True Wind  Correct STW with Leeway  Force True Wind Calculation Show Wind Barb on Chart (OpenGL)  Correct AWS/AWA with Heel Use SOG instead of STW for True Wind Calculation Show Wind Barb on Chart (OpenGL)				
0	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:				
	True HDG  10° true  STW  5.00 kts  SOG   App. Wind Spee  8.30 m/s  App. Wind Angle  29°<  True Wind Spee  6.17 m/s  True Wind Direc  50° true				
	PASS or FAIL				
1	Convert the result to knots and make an inverse sanity check using an external tool (or your calculator - which will increase the test time).  StarpathTrueWind  File Help  Vessel Speed 5.3  Vessel Heading = 010  Apparent Wind Speed 16.5  Apparent Wind Angle 23  Compute True Wind Speed 16.5  True Wind Speed 16.5  Apparent Wind Angle 28°  True Wind Speed 16.5  True Wind Speed 12.11 kts  True Wind Angle 40°  True Wind Angle 40°				



RESULTS	DEFECTS	REQUIREMENTS			
Status	Test Plan F	lun	Assigned To	Updated At↑	Actions
<b>▶</b> Skip	TPR47 das	hboard_tactics_pi_	🥞 Petri Makijarvi	a day ago	G
<b>▶</b> Skip	TPR43 das	hboard_tactics_pi_	🥞 Petri Makijarvi	19 days ago	G
<b>▶</b> Skip	TPR44 das	hboard_tactics_pi_	🥞 Petri Makijarvi	19 days ago	C
<b>▶</b> Skip	TPR42 das	hboard_tactics_pi_	🥞 Petri Makijarvi	28 days ago	C
<b>≫</b> Skip	TPR41 das	hboard_tactics_pi_	🥞 Petri Makijarvi	29 days ago	ď
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ACTIVITY	HISTORY	COMMENTS			

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