

*Version 1.9.0 of 8 June 2021*

- File `sendoverwifi` now also steers sending Y/N over webserver: change in `systemfiles/sendoverwifi` on line 1
- Frequency of UDP over wifi can now be set with a value in `boatspecifics` file (cycles between broadcasts). Change in `boatspecifics` file
- Webserver not yet operational; it sends to `ws://` but not to a browser yet
- Routines for `async io` and `queue` to webserver added thx Menno!
- Sends full `wsdata-variable` now to webserver
- Support introduced for UK-US CSV-files with decimal point and comma-delimiter. Change in `processlist` file on line 2.
- This CSV choice is on 2nd line in `processlist-file`: a comma there will make sure CSV-files are read and written with decimal point and a comma as separator. All other characters in that 2nd line will lead to ; separated CSV with decimal ,
- PDLog will be written with , separator and decimal . if input-CSVs are also chosen to have this format.
- The postprocessors `PD_tablesbuilder` and `PD_windsetcheck` can handle both types of CSV now; they detect the separator and decimal sign. In the output of `PD_tablesbuilder` the right CSV-type is created, according to the input detected.
- 2 new postprocessors included: one to check symmetry between bows (rudder, pitch, heel, `STWperf` and `SOGperf`), the other one to check performance (`SOG`) per TWA and per TWS. Two new `boatspecific-files`.
- 2 new `NMEAtemplates` added and their processing in `SPD`. Types `SPMVW` and `SPMVP`, specially for the new Multiview II display. Type W is for assorted wind data, P for assorted performance data. Change in `NMEAtemplates` file
- RoT on screen replaced by rudder angle, more useful.
- Rudder field on screen has 2 values now: an average rudder angle (averaged over the filter length of the filter-buttons) and a max rudder angle during the filter length.
- Filtering (averaging) for raw AWS and AWA added. Number of records to be averaged is default 4; Change in `processlist-file` online 17.

- VMG and VMGperf now always positive: at TWA>90, VMG downwind is calculated instead of upwind, based on VMG@DA for VMGperf.

Changes in the control files: (old files will work, but will not use full functionality):

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In processlist file, line 2:

**; CSV files delimiter. Default ; unless you specify a comma , Decimal delimiter with ; is , and with , it is .**

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In processlist, line after 'start without question', now determines filtering of raw TWA and TWS: number of records to be averaged.

**3**

This value instead of spare2

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In sendoverwifi file: first line has extra character:

**YY** Send standard messages over WiFi-UDP (first Y) and send over websocket to browser (second Y) YY NY YN and NN are allowed

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In NMEAtemplates file, 2 new types added for Multiview Mk II. \$parameters in these are FIXED: The multiview expects them! Do not change them.

**\$SPMVW,\$twa,\$bow,\$tws,N,\$twstrend,N,\$geo,\$gtr,N,\$geotwsavg,N,\$geotwstrend,N,\$shift,\$bestangle,\$angleOFF**

**\$SPMVP,\$sogperf,\$sogperfci,\$stwperf,\$vmgperf,\$dtl,\$ttl**

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