



## EVO4S Release history

Version	Date	Change/additions
<b>01.32.30</b>	Dec, 1st 2023	<ul style="list-style-type: none"><li>External modules updates</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li><b>25.49</b> LCU-One   LCU-One CAN (improved warm up handling)</li><li><b>01.32.30</b> GS-Dash   Fixed Predictive / +-RefTime measures visualization</li></ul>
<b>01.32.26</b>	Jul, 4th 2023	<ul style="list-style-type: none"><li>Added ACC support</li></ul> <b>External modules</b> <p>No changes</p>
<b>01.32.22</b>	Mar, 15th 2023	<ul style="list-style-type: none"><li>Fix GPS samples acquisition that in could cause not recorded data</li><li>GPS09C support</li></ul> <b>External modules</b> <p>No changes</p>

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<b>01.32.16</b>	Jul, 27th 2022	<ul style="list-style-type: none"><li>▪ New expansions boards (GSDASH2, Shiftlight_B) support</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>02.40.10</b> Shiftlight Module B</li><li>▪ <b>02.40.21</b> GSDASH2</li><li>▪ <b>01.32.16</b> GSDASH</li></ul>
<b>01.32.08</b>	Jun, 7th 2022	<ul style="list-style-type: none"><li>▪ Fixed GPS data sampling from GPS CAN devices (GPS08/GPS09)</li></ul> <b>External modules</b> <p>No changes</p>
<b>01.32.00</b>	May, 17th 2022	<ul style="list-style-type: none"><li>▪ SmartyCam 3 Sport support</li></ul> <b>External modules</b> <p>No changes</p>
<b>01.30.44</b>	May, 2nd 2022	<ul style="list-style-type: none"><li>▪ Fixed digital speed parameters from RS3 configuration setup</li></ul> <b>External modules</b> <p>No changes</p>
<b>01.30.38</b>	Feb, 18th 2022	<ul style="list-style-type: none"><li>▪ Added GPS09B device support</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>02.38.03</b> GPS09B</li></ul>
<b>01.30.30</b>	Aug, 6th 2021	<ul style="list-style-type: none"><li>▪ Fixed bad GPS data synchronization (that caused shorter lap times and GPS speed acquisition)</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>02.36.64</b> GPS09 Module</li></ul>
<b>01.30.06</b>	Nov, 25th 2020	<ul style="list-style-type: none"><li>▪ Added GPS09 support</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>35.65</b> GPS Module: Fix Masterclock received from master that caused bad values in GPS data timestamp</li></ul>
<b>01.30.00</b>	Jun, 9th 2020	<ul style="list-style-type: none"><li>▪ Race Simulators handling</li><li>▪ Added Hour/Date info from GPS tracks</li><li>▪ Added reference speed used to calculate odometers</li><li>▪ Improved k-line handling</li></ul> <b>External modules</b> <p>No changes</p>

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<b>01.28.20</b>	Dec, 4th 2019	<ul style="list-style-type: none"><li>▪ Fixed issue on CAN bus off handling of ECU CAN line</li><li>▪ Improved synchronization between data from GPS and local data acquisition</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>35.64</b> GPS Module<ul style="list-style-type: none"><li>▪ Improved synchronization between data from GPS and local data acquisition</li></ul></li></ul>
<b>01.28.10</b>	Jul, 5th 2019	<ul style="list-style-type: none"><li>▪ Fixed bug in Channel Expansion/TCHub firmware that caused blinking in Race Studio 3 Live Measures</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>40.63</b> Channel Expansion/TC Hub<ul style="list-style-type: none"><li>▪ Fixed bug that caused blinking in Race Studio 3 Live Measures</li></ul></li></ul>
<b>01.28.08</b>	Jun, 12th 2019	<ul style="list-style-type: none"><li>▪ Fixed CAN protocols with multiplex frames</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>40.62</b> Channel Expansion/TC Hub</li><li>▪ <b>35.61</b> GPS Module</li></ul>
<b>01.28.03</b>	Feb, 12th 2019	<ul style="list-style-type: none"><li>▪ Fixed display artifacts in measures value cleaning</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>01.26.49</b> GS-Dash<ul style="list-style-type: none"><li>▪ Measures timeout improved</li><li>▪ Spansion support</li><li>▪ Fix data recall synchronization issue</li></ul></li><li>▪ <b>01.26.48</b> Memory Module<ul style="list-style-type: none"><li>▪ Improved support for various models of SD cards</li></ul></li><li>▪ <b>02.26.51</b> Shift Light Module<ul style="list-style-type: none"><li>▪ Fixed issues with some ECUs</li></ul></li></ul> <p>No changes for the other modules</p>
<b>01.26.46</b>	Dec, 5th 2018	<ul style="list-style-type: none"><li>▪ Added management of Shift Light Module</li></ul> <b>External modules</b> <p>No changes</p>

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Version	Date	Change/additions
<b>01.26.42</b>	Oct, 30th 2018	<ul style="list-style-type: none"><li>▪ Support for CAN Optical Lap (IRM_42)</li><li>▪ Set Brightness Mode using Remote button fix</li><li>▪ CAN Bus 120 Ohm Resistor setting fix</li><li>▪ Optical Beacon blind time fix</li></ul> <p><b>External modules</b></p> <p>No changes</p>
<b>01.26.38</b>	Oct, 5th 2018	<ul style="list-style-type: none"><li>▪ Added possibility to force channels in Online</li><li>▪ Fixed bug on Digital output priority handling</li></ul> <p><b>External modules</b></p> <p>No changes</p>
<b>01.26.28</b>	Apr, 12th 2018	<ul style="list-style-type: none"><li>▪ Fixed bug in remote display configuration</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>01.26.22</b> Memory Module</li><li>▪ <b>01.26.28</b> GS-Dash</li><li>▪ <b>01.26.28</b> Formula Steering Wheel 3</li><li>▪ <b>35.58</b> GPS Module</li><li>▪ <b>25.47</b> Lambda</li><li>▪ <b>40.61</b> Channel Expansion/TC Hub</li><li>▪ <b>70.03</b> Remote buttons interface</li></ul>
<b>01.26.25</b>	Jan 11th 2018	<ul style="list-style-type: none"><li>▪ Fixed bug when the Start Data Recording standard condition is configured: in some conditions it caused not recorded data</li><li>▪ Fixed bug in volume sensors with gallons unit measure</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>01.26.22</b> Memory Module</li><li>▪ <b>01.26.22</b> GS-Dash</li><li>▪ <b>01.26.22</b> Formula Steering Wheel 3</li><li>▪ <b>35.58</b> GPS Module</li><li>▪ <b>25.47</b> Lambda</li><li>▪ <b>40.61</b> Channel Expansion/TC Hub</li></ul>

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Version	Date	Change/additions
		<ul style="list-style-type: none"><li>▪ <b>70.03</b> Remote buttons interface</li></ul>
<b>01.26.24</b>	Nov 14th 2017	<ul style="list-style-type: none"><li>▪ Fix lockup at power up for some devices</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>01.26.22</b> Memory Module</li><li>▪ <b>01.26.22</b> GS-Dash</li><li>▪ <b>01.26.22</b> Formula Steering Wheel 3</li><li>▪ <b>35.58</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.60</b> Channel Expansion/TC Hub</li><li>▪ <b>70.03</b> Remote buttons interface</li></ul>
<b>01.26.23</b>	Oct 24th 2017	<ul style="list-style-type: none"><li>▪ Support for CAN builder ID mask feature</li><li>▪ Consumed fuel channel</li><li>▪ Fix: Pulse per wheel revolution setting not working for Speed1 or Speed2 digital inputs</li><li>▪ Fix: wrong order of operands in bias math channel</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>01.26.22</b> Memory Module</li><li>▪ <b>01.26.22</b> GS-Dash</li><li>▪ <b>01.26.22</b> Formula Steering Wheel 3</li><li>▪ <b>35.58</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.60</b> Channel Expansion/TC Hub</li><li>▪ <b>70.03</b> Remote buttons interface</li></ul>
<b>01.26.14</b>	Jul 7th 2017	<ul style="list-style-type: none"><li>▪ Improved CAN management: more reliability in firmup and configuration transmission</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>01.26.14</b> Memory Module</li><li>▪ <b>01.26.14</b> GS-Dash</li><li>▪ <b>01.26.14</b> Formula Steering Wheel 3</li><li>▪ <b>35.58</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.60</b> Channel Expansion/TC Hub: minor bug fixed</li><li>▪ <b>70.03</b> Remote buttons interface</li></ul>

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Version	Date	Change/additions
<b>01.26.08</b>	Jun 20th 2017	<ul style="list-style-type: none"><li>▪ Memory Module support</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>01.26.08</b> Memory Module</li><li>▪ <b>01.26.08</b> GS-Dash</li><li>▪ <b>01.26.08</b> Formula Steering Wheel 3</li><li>▪ <b>35.58</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.60</b> Channel Expansion/TC Hub: minor bug fixed</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.24.56</b>	Jun 1st 2017	<ul style="list-style-type: none"><li>▪ Fixed rolling lap time on GS-Dash and Formula Steering Wheel 3</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>01.24.56</b> GS-Dash</li><li>▪ <b>01.24.56</b> Formula Steering Wheel 3</li><li>▪ <b>35.58</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.60</b> Channel Expansion/TC Hub: minor bug fixed</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.24.54</b>	May 19th 2017	<ul style="list-style-type: none"><li>▪ Includes firmware GPS v 35.58.00 that fixes data synchronization with SmartyCam HD</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>01.24.54</b> GS-Dash</li><li>▪ <b>01.24.54</b> Formula Steering Wheel 3</li><li>▪ <b>35.58</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.60</b> Channel Expansion/TC Hub: minor bug fixed</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.24.52</b>	May 18th 2017	<ul style="list-style-type: none"><li>▪ Fixed GPS Data visualization on GS-Dash and Formula Steering Wheel 3</li></ul> <b>External modules</b> <ul style="list-style-type: none"><li>▪ <b>01.24.52</b> GS-Dash</li><li>▪ <b>01.24.52</b> Formula Steering Wheel 3</li></ul>

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		<ul style="list-style-type: none"><li>▪ <b>35.56</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.60</b> Channel Expansion/TC Hub: minor bug fixed</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.24.45</b>	Apr 19th 2017	<ul style="list-style-type: none"><li>▪ Fixed bug in AiM digital speed channels when 'Ang Velocity' is selected (i.e. RPM setting)</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.56</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.56</b> Channel Expansion/TC Hub</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.24.38</b>	Apr 5th 2017	<ul style="list-style-type: none"><li>▪ Support for Formula Steering Wheel 3 configuration</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.56</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.56</b> Channel Expansion/TC Hub</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.24.34</b>	Mar 24th 2017	<ul style="list-style-type: none"><li>▪ Added GS-Dash management</li><li>▪ Improved accelerometer support: better filtering and uniform sign convention on various devices</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.56</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.56</b> Channel Expansion/TC Hub</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.24.00</b>	Jan 26th 2017	<ul style="list-style-type: none"><li>▪ Fixed issue that caused CAN network malfunction when remote button device is in the network</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.56</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.56</b> Channel Expansion/TC Hub</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>

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Version	Date	Change/additions
<b>01.22.99</b>	Jan 19th 2017	<ul style="list-style-type: none"><li>▪ Added management of GPS position accuracy measure for CAN output</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.56</b> GPS Module</li><li>▪ <b>25.46</b> Lambda</li><li>▪ <b>40.56</b> Channel Expansion/TC Hub</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.22.94</b>	Dec 5th 2016	<ul style="list-style-type: none"><li>▪ No changes</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.56</b> GPS Module</li><li>▪ <b>25.46</b> Lambda: fixed bug that caused shifted lambda samples</li><li>▪ <b>40.56</b> Channel Expansion/TC Hub</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.22.92</b>	Nov 29th 2016	<ul style="list-style-type: none"><li>▪ Minor improvements</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.56</b> GPS Module: improvements in GPS measurements available to SmartyCam overlay</li><li>▪ <b>25.44</b> Lambda</li><li>▪ <b>40.56</b> Channel Expansion/TC Hub</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.22.86</b>	Nov 15th 2016	<ul style="list-style-type: none"><li>▪ Added IRM CAN LAP support</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.54</b> GPS Module: improved satellites fix</li><li>▪ <b>25.44</b> Lambda: added keep alive support</li><li>▪ <b>40.56</b> Channel Expansion/TC Hub</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>



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Version	Date	Change/additions
<b>01.22.82</b>	Oct 11th 2016	<ul style="list-style-type: none"><li>▪ Speed up USB transfer</li><li>▪ Fixed bug in GPS lap management that in some cases caused loss of laps detected</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.50</b> GPS Module</li><li>▪ <b>25.42</b> Lambda</li><li>▪ <b>40.56</b> Channel Expansion/TC Hub: improved analogic channels acquisition</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.22.74</b>	Sep 15th 2016	<ul style="list-style-type: none"><li>▪ Fixed alarms functionality based on acquisition channels under encryption</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.50</b> GPS Module</li><li>▪ <b>25.42</b> Lambda</li><li>▪ <b>40.55</b> Channel Expansion/TC Hub</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.22.60</b>	Jul 25th 2016	<ul style="list-style-type: none"><li>▪ Fixed: alarm hysteresis condition</li><li>▪ Minor bugfixes and improvements</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.50</b> GPS Module</li><li>▪ <b>25.42</b> Lambda</li><li>▪ <b>40.55</b> Channel Expansion/TC Hub</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>
<b>01.20.68</b>	Jul 1st 2016	<ul style="list-style-type: none"><li>▪ Fixed: handling of enabling /disabling of CAN termination resistance</li></ul> <p><b>External modules</b></p> <ul style="list-style-type: none"><li>▪ <b>35.50</b> GPS Module</li><li>▪ <b>25.42</b> Lambda</li><li>▪ <b>40.55</b> Channel Expansion/TC Hub</li><li>▪ <b>70.01</b> Remote buttons interface</li></ul>