

## New features of ID-DCU-Marine and ID-VP-Marine-1.2

### ***Firmware and default archives***

ID-DCU-Marine-1.2 and ID-VP-Marine-1.2 (Volvo Penta branch) firmware is based on previous version ID-DCU-Marine-1.1.

<b>Firmware</b>	<b>Application file (AID archive) No On/Off button on panel</b>	<b>ESF</b>
... IntelliDrive \ App \ ...	...IntelliDrive \ App \ Default \...	...IntelliDrive \ Database \...
ID-VP-Marine-1.2.mhx (no panel button)	VP- Marine-AUX-1.2.aid VP- Marine-EME-1.2.aid VP- Marine-CMB-1.2.aid VP-Marine-PRP-1.2.aid	VolvoMarineProp.esf VolvoMarineAux.esf ScaniaS6Aux.esf ScaniaS6Prop.esf StandardJ1939engine.esf
ID-DCU-Marine-1.2.mhx (On/Off panel button)	DCU- Marine-AUX-1.2.aid DCU - Marine-EME-1.2.aid DCU - Marine-CMB-1.2.aid DCU -Marine-PRP-1.2.aid	

Corresponding Remote display firmware I-RD-Marine-1.2 is compatible with both ID-VP-Marine and ID-DCU-Marine firmware.

### ***PC software***

Use ID-DCU-Marine-1.2-EXPERT installation CD for PC software installation. Software ID-VP-Marine-1.2 is compatible with following PC software.

DriveConfig-1.2	Controller configuration tool
DriveMonitor-1.2	Controller monitoring tool
WinScope-1.1	Graphical records tool
GM setup-1.4	GSM modem setup tool
IBConfig-1.2	IG-IB internet bridge configuration tool
ICB-Edit-1.1	I-CB communication bridge configuration tool

### ***Available documentation***

ID-DCU-Marine-1.2.pdf  
 DriveConfig-1.2.pdf  
 DriveMonitor-1.2.pdf  
 IntelliCommunicationGuide.pdf

### ***New features of ID-VP-Marine-1.2***

1. New Binary output **Alarm Blink**. Function is based on Binary output COMMON ALARM - stays closed when any alarm is active (at least one item in Alarm list) and opens for 2 sec when any new Alarm is activated. The first activation is delayed 2 sec. No Fault reset influence when at least one alarm is active. Output opens when Alarm list is empty.
2. **Startblocking** indication: Activation of Startblocking function (Binary input Startblocking is closed) in Alarm list is active only when engine is not running. Not necessary to configure any alarm for correct indication as before.
3. New binary outputs Droop Sw, Secondary Sw, Idle Sw. New binary inputs. Outputs can be configured as source to J1939 output. Those J1939 output can be changed by corresponding setpoint or by Binary input (when corresponding setpoint is set to EXTERNAL). Binary input open state means ISOCH, SECONDARY, IDLE.
4. **Fault reset** button is now screen sensitive:

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- resets alarms when controller screen is switched to Alarm list
  - resets ECU alarms when controller screen is switched to ECU Alarm list
  - no Fault reset button function on any other screen.
5. **Binary output Horn** (buzzer) is activated when a new alarm occurs in Alarm list or in ECU Alarm list. Horn is not activated when the same ECU alarm occurs the second time (appears-disappears-appears) without previous Fault reset.
  6. **Modbus Start command** returns Command error message (the same like in LOC mode) when start command is not accepted due to controller OFF mode or active Startblocking function.  
Note there is no response (no error message) for Start command that is sent while engine running or in cooling state.
  7. **Sea water pressure** monitoring: we have the monitoring value on J1939 VP Helm frame only in the PRP installation. In Aux/EME/CMB installation we have an alarm PPID=267 (VP\_Helm is not published in a auxiliary application now).
  8. ESF files modification for AUX and PRP installations.
  9. Repaired "Hidden LOC mode" effect after firmware reprogramming.
  10. Repaired Fast edit function in PRP application.
  11. Restart of Horn time when a new alarm is activated during previous Horn time.
  12. ECU fault codes will be coded as PID, PPIDs or SIDs.
  13. Block of Fast edit function when **Engine params: *EnLocalSpeed* = DISABLED**.  
Time for Fast edit activation (hold Enter) was reduced from 4 to 2 sec
  14. **Basic settings:** *Speed select* setting was renamed to PRIMARY / SECONDARY. See table below.  
Corresponding Binary input was renamed to "BI Secondary" and output to "Secondary Sw".
  15. Automatic switching to OFF mode before controller programming when engine is running (FU:48) is blocked.
  16. Only configured ID controller analog inputs bargraphs will be visible on the screen.
  17. D12 sign was removed from esf files names.
  18. ID start-up time was reduced to 1700 ms.
  19. Fix Log.0 and Log.1 was included to logical binary output list.
  20. Add new setpoint to Ena/Disable ECU alarm messages (indication in Alarm list when disabled)
  - 21.
  22. New analog protection types Active when: Under+FIs, Over +FIs (alarm is activated or Over/Under or by sensor fail).
  23. FIs (FF values) indication was removed from ID after ECU is switched On.
  24. Inactive fault codes on J1587 PID 194 that are displayed were removed.
  25. J1587 sends " N" or " D" in PID163 depends on state of logical binary input Startblocking.
  26. English (psi, etc.) J1939 values configuration support included.
  27. New Binary output „Operational“ closes on Prestart and opens AfterCoolTime after engine stop.
  28. Fix delay 1 sec for MCU and RD panel STOP button.
  29. Esf file version was included to DriveConfig aid archive.
  - 30.

Info screen – VP-Marine	Comment
Marine Control Unit	1 Product type (it is fix)
Volvo Penta	2 Company name (it is fix)
Engine name	3-4 Engine name configurable in DM
EngNo: 1234567890	5 Adjustable in DC setpoint group Length up to 13 characters.
Serial: 12345678	6 Controller serial number (unique for each controller)
SW PN: 3818237	7 VP SW Partnumber, according VP specification. This is valid for ID-VP-1.2 version.
Appl: PRP	8 Application

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### ***Remote panel***

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- Fast edit screen is activated after 2 sec Enter key hold, when EnLocalSpeed = ENABLED only.
- Stop button reaction is 1 sec delayed.
- Display backlight can be switched to full intensity when middle power supply terminal (D+ in DCU) is closed to + power supply.

### ***DriveConfig-1.2***

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- Del button changes configuration of selected input or output item to “No protection”, “Not used”.
- Indication of duplicate abbreviations in History configuration window.
- Scroll-up Dimension field for selection between Metric and English values from J1939.
- Indication of esf file version.