

Firmware Build_FW1050_FF1537 (09.02.2018)**DspFirmware: Build 1050****Release Date: Date: 2018-01-22 16:25:52 +0100 (Mo, 22 Jan 2018)****SVN Revision: Revision: 26746****RLID: 4&5&6 & 16****Remarks: supporting TSx5x RevB,RevC&RevD and TSP350&700 Rev0,Rev1 Drives,****New features:**

- NEW: implemented stream path interpolation feature
- NEW: implemented Limit600Hz feature on new drive types TS152, TS352, TSP352 and TSP702
- NEW: added support for new 128MB flash (use the new flash with the identical MAP as 32MB flash)

Bug Fixes:

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Changes:

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FpgaFirmware: Build 1537**Release Date: 2017-07-02****New features:**

- cyclic data with two pages for TS -> higher bridge voltage resolution
- rearranging pwm structure and signal flow
- pwm short detection (phase-to-phase and phase-to-earth) for TS150, TS350 and TSP700
earth short detection with shorter pulse duration due to problems with rotor movements inducing voltage. long pulses are suitable to detect earth shorts over an inductance. Since this error is not damaging the drive this short test will be omitted. New drive generations will have three phase measurements instead of two and the problem of the induced voltage can be solved by summing all three phase currents which cancels out currents caused by the rotor movement.
- service device registers (device 0x01)
 - 0x000000 RO [15: 0] : actual duration from receiving data to the begin of the 100kHz cycle
 - 0x000001 RO [15: 0] : minimum duration value, cleared by reading the register
 - 0x000001 RO [31:16] : maximum duration value, cleared by reading the register
- Trialink adapter release.

Refactoring:

- Design separation between Artix7 and Spartan3e/Spartan6 (different tools)
- Separation from TSD firmware branch

Bug Fixes:

- refactoring Endat Receive (problems with the synthesis of the counters)
- applying timing constraints for CDC instances
- table feeder device not recognized due to wrong local bus timeout behaviour.
- encoder amplitude error: reporting only when analog encoder used
- artix-7 distributed memory was only 16 bit instead of 32 bit wide