2013-04-25 Prisma 3.4.3 Release 1

Sub-Configuration

SOFTWARE	VERSION
OS (Yocto)	SHA1: 857664e3 (3.4.3)
Application (eg3)	SHA1: 24f973a7 (3.4.3)
HARDWARE	**VERSION**
REV C	SHA1: 2521a65 (3.10.0)
HTT	Rev 2 and higher

Important Application Notice:

- Unit with a serial ID above I008441, gain reference has changed. This modification has been done:
  - To reduce sensitivity (8dB) for forging application
  - Enhance SNR
- For standard compliancy purpose in conventional UT and TOFD, the "wedge delay" is manually controlled with the parameter "Scan/Acquisition area/Zero". A "Start path" at 0 starts within the wedge.

Production Notice:

- HTT v1 is no more supported. Channel selection was erratic, the driver has been redesigned for V2 only.

Prisma Featuring:

- User Guide Release, stored on Prisma SSD (Solid State Drive) & on DVD
- Add a UT Hi-PRF mode
  - A-Scan redraw enhancement, combination of multiple ultrasonic beam at high PRF (>60Hz) using a keep maximum algorithm.
  - Fast detect capability
- Signal Enhancement
  - Jitter reduction on amplitude at low and hi PRF (at high voltage)
  - Equal distribution of PRF (enhance signal stability)
  - Increase SNR
- Curved parts support in UT :
  - New type of part added : “Inside Pipe (ID)” and “Outside Pipe (OD)”
  - Defect positioning on 3D curved part
  - Curve Part Measurement (Depth and Surface Distance considering curvature)
- Spike mode support, a new parameter has been added in probe menu: “Pulse Type”
- DGS enhancement
  - Add “material attenuation” to DGS wizard
  - Enhance curve drawing; continue calculating points in the entirelistening window.
  - Add “Split DGS” enhancements
  - Add a “DGS Options” section into Scan to ease control without entering wizard
  - Add "Curve Ref Correct" into “DGS Options” section to allow/disallow curve displacement when changing gain
- DAC enhancement
  - Add “Split DAC” enhancements
  - Add a “DAC Options” section into Scan to ease control without entering wizard
  - Add "Curve Ref Correct" into “DAC Options” section to allow/disallow curve displacement when changing gain
- 3D View
  - Phased Array: Graphical representation of RX delay in 3D views
  - UT: Curve part Rendering
- TOFD
  - Curved Part Support

- Display FPS (Frame per Second) and PRF (Pulse Repetition Frequency) in top right corner of user interface
- Display battery on Welcome screen and improve handling of long file names

Fixed:

- Grids did not immediately appear/disappear in A-Scan analysis, fix #2778, fix #4061
- B-log: adjust view to consider IFT
- Draw grids under A-Scan signal, fixes #4606
- Change analog filter strings according to bug #4589
- Show English help files when no translation is available, fixes #4247
- Increase TCG range in Phased-Array
- TCG constant dB, converting to DAC should result in a curved slope, fixes #3488
- DGS curve shape distorted when changing ERS
- Fix unwanted spike at 2us or 20 mm in steel (particular batch of IC are slower on power on Rev C boards)
- Fix instability when DGS sub-curve was in ERS mode
- DAC: Calibration should not be affected by part thickness changes (#4160)
- Correct slow saving on external USB Memory (or incomplete file)
- TCG indicator status is not saved in the file
- Fix support package generation
- Fix rotation in 3D view
- Fix ADC sync lost (focusing at infinity)
- Fix sporadic glitches in phased array
- Fix UT jitter at 200MHz which occur sporadically on some Prisma devices
- Encoded B-Scan: fixed missed frame when moving too fast for the view
- Media Browser: new progress dialog when copying/moving multiple files
- Media Browser: fix some focusing issues

Known issues:

- Zoom button not supported yet in A-Scan, S-Scan and L-Scan
- Limited TCG range in Phased Array (shall be fixed on next release)

2013-03-14 Prisma 3.3.5 Release 1

Sub-Configuration

SOFTWARE	VERSION
OS (Yocto)	SHA1: fef65ade (3.3.5)
Application (eg3)	SHA1: 0f7efcd8 (3.3.5)
HARDWARE	**VERSION**
REV B	3.9.0
REV C	3.9.0
HTT	Rev 2 and higher

Important Application Notice:

- HTT v1 are no more supported. Channel selection was erratic, the driver have been redesigned for V2 only.
- For standard compliancy purpose in conventional UT and TOFD, the "wedge delay" is manually controlled with the parameter "scan/acquisition area/zero". A "start path" at 0 start within the wedge.

Featuring:

- Update Quick Start Guide
- Enhance auto-gain reliability
- Russian Translation enhancement (display icons when there are no string available)
- Enhance stability
- Add screen layouts
- Add Chinese translation
- Add Italian translation
- Fix mux selection in HW test

Fixed:

- Fix unwanted spike at 2us or 20 mm in steel (particular batch of IC are slower on power on Rev C boards)
- Fix support package generation
- Fix rotation in 3D view
- FIX ADC sync lost (focusing at infinity)
- Fix sporadic glitches in phased array
- Fix UT jitter at 200MHz which occur sporadically on some Prisma devices

Known issues:

- Zoom button not supported yet in A-Scan, S-Scan and L-Scan
- Curved parts should have been disabled, lead to wrong measures (available in next version).

2013-02-07 Prisma 3.3.4 Release 1

Sub-Configuration

SOFTWARE	VERSION
Yocto SHA1	3d0c8915fd826a0c713a4da1a595c339359af621 (3.3.4)
Dev SHA1	6d943e2b695d92a3155caa41e6c418196dc787e6 (3.3.4)
HARDWARE	**VERSION**
REV B	3.8.0
REV C	3.8.0

Important Application Notice:

- For standard compliancy purpose in conventional UT and TOFD, the "wedge delay" is manually controlled with the parameter "scan/acquisition area/delay". A "start path" at 0 start within the wedge.

Featuring:

- Initial Release

Fixed:

- Initial Release

Known issues:

1. Zoom button not supported yet in A-Scan, S-Scan and L-Scan
2. Probe rotation is inverted in 3D view. (especially apparent when using Probe Follow)
3. Curved parts should have been disabled, lead to wrong measures.
4. #4224: Warning icon displays as broken icon in Help pages.
5. #3939: Auto-gain algorithm needs improvement.
6. #4126: Some measures disappear in View Measures bar.
7. #4217: Crash when loading missing PDF file.
8. #3957: Repair Support log package (tar.gz) functionality.
9. Tab bar should display icons in Russian.
10. ADC sync lost (focusing at infinity)
11. Glitches in phased array
12. Ut jitter at 200MHz which occur sporadically on some prisma devices
13. Power on glitches seen on Rev. C