

# Release notes SYGEG1-SYGEG1,SYGEG2

These release notes are applicable to the following modules:

- GED100
- GPD100
- HED100
- HPD100
- GED130
- GPD130
- HED130
- HPD130

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**Software version** 3128  
**Hardware version** 0300, 0301, 0400, 0401  
**Platform** SYGEG1,SYGEG2  
**Date** 19-11-2015  
**Filename** GED\_GPD-0300to0401-3128-D2408-service.zip

Changed Note:  
- GED/GPD100/130 - 3128 - Dolby Firmware 2.4.0.8. -> Dolby E decoder latency (169 ms)  
- Audio switching is now aligned to the video switch-line (Set Fade-Time=0ms for clean Dolby-E switching)  
- The Dolby E Loss PCM Backup crossfade-time is now part of the Fade-Time setting. .

Note:  
- Due to a functionality change of the 16 channel audio embedder, its settings (menu-items) have changed, and thus needs to be set correctly again. These are not restored from previous software versions.

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**Software version** 3127  
**Hardware version** 0300, 0301, 0400, 0401  
**Platform** SYGEG1,SYGEG2  
**Date** 06-10-2015  
**Filename** GED\_GPD-0300to0401-3127-D2408-service.zip

Changed Note:  
- GED/GPD100/130 - 3127 - Dolby Firmware 2.4.0.8. -> Dolby E decoder latency (169 ms)  
- 3G Level-B Support.  
- Added/Fixed S2020 Method A and B support.  
- Functionality and settings of the 16-channel audio embedder has changed.  
- Audio Fade-Time minimum value is now set to 0ms.

Note:  
- Due to a functionality change of the 16 channel audio embedder, its settings (menu-items) have changed, and thus needs to be set correctly again. These are not restored from previous software versions.

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**Software version** 2925  
**Hardware version** 0300, 0301, 0400, 0401  
**Platform** SYGEG1,SYGEG2  
**Date** 14-04-2015  
**Filename** GED\_GPD-0300to0401-2925-D2408-service.zip

Changed Note:  
- GED/GPD100/130 - 2925 - Dolby Firmware 2.4.0.8. -> Dolby E decoder latency (169 ms)  
- Firmware is now compatible to run on SYGEG1 and SYGEG2 HW-Platforms  
- Solved audio-phase misalignment in combination with some 3rd party de-embedder/embedder equipment.

**Software version** 2824  
**Hardware version** 0300, 0301  
**Platform** SYGEG1  
**Date** 22-01-2015  
**Filename** GED\_GPD-0300to0301-2824-D2408-service.zip

Changed Note:  
- GED/GPD100/130 - 2824 - Dolby Firmware 2.4.0.8. -> Dolby E decoder latency (169 ms)  
- Improved GPI responsiveness  
- GED/GPD130: Fixed AD-LOSS copy 1/2->3/4

**Software version** 2723  
**Hardware version** 0300, 0301  
**Platform** SYGEG1  
**Date** 26-06-2014  
**Filename** GED\_GPD-0300to0301-2723-D2408-service.zip

Changed Note:  
- GED/GPD100/130 - 2723 - Dolby Firmware 2.4.0.8. -> Dolby E decoder latency (169 ms)  
- Main Preset switching is enhanced with DD/DD+ Loss Switching  
- Changed Present/Loss detection-time of Metadata: Present/Loss detection based on 2xSubframe1 = 80ms  
- Metadata Present/Loss aligned with metadata outputs, start/stop at frame-base (no frame cuts)  
- Fixed S2020 emb at start up

Notes:  
- In Audio Coding mode [7.1DD+] and [7.1upDD+] it is recommend that the data rate is set to "DDPus\_Man" and "Rate" is set to 320 to ensure a correct output.  
(This is automatically done in the Cortex-Tab if [7.1DD+] or [7.1upDD+] is selected)  
- Audio Delay values changed from integers to floats, and thus needs to be set correctly again. These are not restored from previous software versions  
- If Preset-Control="GPI+LossDetect" -> GPI-Control MUST be set to "Latch" (edge-triggered) for correct function of LossDetect

Limitation:  
- CAT561-2.4.0.8: When Dolby Encoder is set to TC-modes and no Dolby-Digital is present as input (fallback to encoder backup-mode) the Metadata Profiles Line-Mode and RF-Mode cannot be correctly set.

**Software version** 2522  
**Hardware version** 0300  
**Platform** SYGEG1  
**Date** 18-02-2014  
**Filename** GED\_GPD-0300-2522-D2407-service.zip

Changed Note:  
- GED/GPD100/130 - 2522 - Dolby Firmware 2.4.0.7. -> Dolby E decoder latency (169 ms)  
- Solved Metadata issue: DropFrame @ 2<sup>16</sup> frames boundary  
- Solved "robotic-sound" when switching SDI-sources without a SMPTE-DBN-counter inserted  
- "LossDetect" item in the Preset settings: Control and MD-Control now works correctly  
- Audio Fade-Time step-size and minimum value is now set to 1ms.  
- Added Dolby Encoding Settings for the Encoder: 7.1DD+ and 7.1upDD+  
- Added 7.1DD+ and 7.1upDD+ blockdiagrams in Cortex

Notes:  
- In Audio Coding mode [7.1DD+] and [7.1upDD+] it is recommend that the data rate is set to "DDPus\_Man" and "Rate" is set to 320 to ensure a correct output.  
(This is automatically done in the Cortex-Tab if [7.1DD+] or [7.1upDD+] is selected)  
- Audio Delay values changed from integers to floats, and thus needs to be set correctly again. These are not restored from previous software versions  
- If Preset-Control="GPI+LossDetect" -> GPI-Control MUST be set to "Latch" (edge-triggered) for correct function of LossDetect

Limitation:  
- CAT561-2.4.0.7: When Dolby Encoder is set to TC-modes and no Dolby-Digital is present as input (fallback to encoder backup-mode) the Metadata Profiles Line-Mode and RF-Mode cannot be correctly set.

**Software version** 2120  
**Hardware version** 0300  
**Platform** SYGEG1  
**Date** 28-05-2013  
**Filename** GED\_GPD-0300-2120-D2407-service.zip

Changed Note:

- GED/GPD100/130 - 2120 - Dolby Firmware 2.4.0.7. -> Dolby E decoder latency (169 ms)
- Changed Metadata Infrastructure, every Metadata Destination now has a Metadata Source-selector
- Metadata Sources can now be directly assigned to Destinations without going through the MetadataShuffler
- Added Dolby Metadata Source Selectors: Shuffler\_MD\_Src, S2020Emb\_MD\_Src, Enc\_MD\_Src, LocalOut\_MD\_Src and MD\_Status\_Src
- Added Shuffler\_MD\_Src, S2020Emb\_MD\_Src, Enc\_MD\_Src and LocalOut\_MD\_Src to the Main-Preset
- Added Dolby Metadata Infrastructure Blockdiagram in Cortex
- Resolution of the Audio Delay Settings has changed from ms into us (stepsize in menu is still 1 ms, resolution = 20,8us (48kHz audio))
- Added Dolby Transcoding Settings for the Encoder: TC, 2orTC, 2+2orTC and 5.1orTC
- Added TC blockdiagrams in Cortex
- Added LossDetect item in the Preset settings: Control and MD-Control
- S2020 De-embedder Setting Extract Associated Channel (Extract\_Ass\_Ch) is now working correctly for all Channels

Note:

- Audio Delay values changed from integers to floats, and thus needs to be set correctly again. These are not restored from previous software versions
- If Preset-Control="GPI+LossDetect" -> GPI-Control MUST be set to "Latch" (edge-triggered) for correct function of LossDetect

Limitation:

- CAT561-2.4.0.7: When Dolby Encoder is set to TC-modes and no Dolby-Digital is present as input (fallback to encoder backup-mode) the Metadata Profiles Line-Mode and RF-Mode cannot be correctly set.

**Software version** 1515  
**Hardware version** 0300  
**Platform** SYGEG1  
**Date** 24-09-2012  
**Filename** GED\_GPD-0300-1515-D2406-service.zip

Changed Note:

- GED100/130 - 1515 - Dolby Firmware 2.4.0.6. -> Dolby E decoder latency (169 ms)
- GPD100/130 - 1515 - Dolby Firmware 2.4.0.6. -> Dolby E decoder latency (169 ms)
- added: AutoPhaser-Status (only available when locked to reference) setting to enable/disable the autophaser status.
- added: Encoder config: TC (Transcoding) for transcoding from Dolby Digital to Dolby Digital Plus (DD needs to be fed to the Dolby E Decoder)
- fixed: smooth metadata switching in Dolby Digital when e.g. Dolby E is lost

**Software version** 1414  
**Hardware version** 0300  
**Platform** SYGEG1  
**Date** 19-07-2012  
**Filename** GED\_GPD-0300-1414-D2403-service.zip

Changed Note:

- GED100/130 - 1414 - Dolby Firmware 2.4.0.3. -> Dolby E decoder latency (169 ms)
- GPD100/130 - 1414 - Dolby Firmware 2.4.0.3. -> Dolby E decoder latency (169 ms)
- Added separate update application daughter module: During the firmware update of the Dolby module the card is visible as DM\_UPD.
- Improved stability changing presets or back-up/restoring card
- Added Locked alarm
- Added Level-B mapping status-items for SDI1 and SDI2 (Input Status Only)
- Improved audio mux for switch to and from non-pcm channels (e.g. Dolby E loss function)
- Feature added: AutoPhaser-Status (only available when locked to reference):
- Phaser\_H\_Pos -> shows the distance measured in samples of the autophaser write-to-read timing (SDI-Input-to-Ref timing).
- Phaser\_Stat -> Shows status of autophaser: NA, Safe, Warning, Critical

**Software version** 1313  
**Hardware version** 0300  
**Platform** SYGEG1  
**Date** 02-06-2012  
**Filename** GED\_GPD-0300-1313-D2403-service.zip

Changed Note:  
GED100/130 - 1313 - Dolby Firmware 2.4.0.3. -> Dolby E decoder latency (169 ms)  
GPD100/130 - 1313 - Dolby Firmware 2.4.0.3. -> Dolby E decoder latency (169 ms)

- Feature added: LossDetect setting: DolbyE ((H/GED Only), MD-DEcoderOut, MD-LocalIn, S2020-SDI)  
A different Active-Preset, using the Loss and Detect settings, can now also be triggered by S2020 or metadata loss.  
- Feature added: MD-Control setting: Manual, GPI  
A different Metadata-Preset can now also be chosen by GPI-control  
- Added option BCD to GPI-Ctrl (only GPI1-3 are used to set presets, so all presets can be selected when also using local metadata output).  
gpi1-3:[0,0,1]->Preset1:[0,1,0]->Preset2:[0,1,1]->Preset3; etc.:[0,0,0]->no change in preset;  
- Solved: Muted audio on E-encoder when manipulating the metadata using the metadata-shuffler  
Updated the metadata-shuffler (Dolby-E Complete gain-values are set to default: 0.00 dB)

**Software version** 1111  
**Hardware version** 0300  
**Platform** SYGEG1  
**Date** 30-01-2012  
**Filename** GEPxxx-0300-1111-service.zip

**Software version** 1010  
**Hardware version** 0300  
**Platform** SYGEG1  
**Date** 8-12-2011  
**Filename** GEPxxx-0300-1010-service.zip

- Fixed: Back-up Dolby decoder output at start up  
- Fixed: audio status bits Dolby encoder output  
- Fixed: Crash of Dolby module, if Dolby E bitstreams with unused bits in the AES stream not set to 0  
- Fixed: Embedding multiple groups in 1080psf23,98 video format  
- Mute local metadata output, when metadata source of shuffler is not available

**Software version** 0909  
**Hardware version** 0300  
**Platform** SYGEG1  
**Date** 26-09-2011  
**Filename** GEPxxx-0300-0909-service.zip

- Changed range audio gains to [-144, +12] dB  
- Added CRC events for SDI inputs

Updated ATC-Embedder block: When ATC-Packets are not correctly placed in HANC/VANC at SDI-Input, or when more than 1 ATC-Packets is present within SDI in HANC and VANC at the same time, the ATC-Embedder duplicated these wrong-placed-packets. This duplication is solved.

**Software version** 0707  
**Hardware version** 0300  
**Platform** SYGEG1  
**Date** 08-06-2011  
**Filename** GEPxxx-0300-0707-service.zip

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**Software version** 0606  
**Hardware version** 0300  
**Platform** SYGEG1  
**Date** 16-05-2011  
**Filename** GEPxxx-0300-0606-service.zip

First release.

Includes Dolby CAT561-subboard firmware update to version 2.2.2.1

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