

# Release notes SYGEG1-SYGEG1,SYGEG2

These release notes are applicable to the following modules:

- GRB550
- GRB590
- GRB950
- GRB990
- HRB550
- HRB590
- HRB950
- HRB990

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**Software version** 1413  
**Hardware version** 0100, 0101, 0200, 0300, 0301, 0400, 0401  
**Platform** SYGEG1,SYGEG2  
**Date** 24-02-2015  
**Filename** GRBxxx-0100to0401-1413-service.zip

This firmware is applicable for:  
GRB550, GRB590, GRB950, GRB990,  
HRB550, HRB590, HRB950, HRB990.

**Changed Note:**

- Firmware is now compatible to run on SYGEG1 and SYGEG2 HW-Platforms
- Audio Fade-Time minimum value is now set to 0ms.
- Solved audio-phase misalignment in combination with some 3rd party de-embedder/embedder equipment.

**Note:**

- If Preset-Control="GPI+LossDetect" -> GPI-Control MUST be set to "Latch" (edge-triggered) for correct function of LossDetect

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**Software version** 1312  
**Hardware version** 0100, 0101, 0200, 0300, 0301  
**Platform** SYGEG1  
**Date** 12-06-2014  
**Filename** GRBxxx-0100to0301-1312-service.zip

This firmware is applicable for:  
GRB550, GRB590, GRB950, GRB990,  
HRB550, HRB590, HRB950, HRB990.

**Changed Note:**

- Solved Metadata issue: DropFrame @ 2<sup>16</sup> frames boundary
- Solved "robotic-sound" when switching SDI-sources without a SMPTE-DBN-counter inserted
- 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)
- Audio Fade-Time step-size and minimum value is now set to 1ms.

**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

**Software version** 1211  
**Hardware version** 0100, 0101, 0200, 0300  
**Platform** SYGEG1  
**Date** 30-07-2013  
**Filename** GRBxxx-0100to0300-1211-service.zip

Changed Note:  
- 3G Level-B Support  
- Resolution of the Audio Delay Settings has changed from ms into us (stepsize in menu is still 1 ms, resolution = 20,8us (48kHz audio))  
- Changed Metadata Infrastructure, every Metadata Destination now has a separate Metadata Source-selector  
- Added Dolby Metadata Source Selectors: S2020Emb\_MD\_Src and LocalOut\_MD\_Src, and added both to the Main-Preset  
- Added LossDetect item in the Preset settings "Control"  
- Changed predefined preset values: "S2020-SDID" and "ProgramConfig" settings in "Detect" switches to predefined presets according to value of programconfig or SDID value.

[S2020-SDID:  
00 (None) -> Preset 8;  
01 (Ch01/02) -> Preset 8;  
02 (Ch03/04) -> Preset 9;  
03 (Ch05/06) -> Preset 10;  
04 (Ch07/08) -> Preset 11;  
05 (Ch09/10) -> Preset 12;  
06 (Ch11/12) -> Preset 13;  
07 (Ch13/14) -> Preset 14;]

[ProgramConfig:  
7.1 -> Preset 8;  
5.1+2 -> Preset 9;  
5.1 -> Preset 10;  
4x2 -> Preset 11;  
3x2 -> Preset 12;  
2+2 -> Preset 13;  
Other -> Preset 14;]

- Added "0" to GPI status to indicate in nonLatch mode (level triggered) no gpi input is active.  
- S2020 De-embedder Setting Extract Associated Channel (Extract\_Ass\_Ch) is now working correctly for all Channels  
- Solved ADP24 Voice-Over processing MUTE when placed as Addon.

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

**Software version** 1110  
**Hardware version** 0100, 0101, 0200, 0300  
**Platform** SYGEG1  
**Date** 04-07-2013  
**Filename** GRBxxx-0100to0300-1110-service.zip

Changed Note:  
- Fixed: S2020 Loss/Detect functionality

**Software version** 1010  
**Hardware version** 0100, 0101, 0200, 0300  
**Platform** SYGEG1  
**Date** 29-05-2013  
**Filename** GRBxxx-0100to0300-1010-service.zip

Changed Note:  
- Fixed: Freeze of card in Cortex and front-panel when rack is overloaded with events  
- Audio Delay Settings are moved into the Presets

Note:  
- If Preset-Control="GPI+LossDetect" -> GPI-Control MUST be set to "Latch" (edge-triggered) for correct function of LossDetect

**Software version** 0909  
**Hardware version** 0100, 0101, 0200, 0300  
**Platform** SYGEG1  
**Date** 04-12-2012  
**Filename** GRBxxx-0100to0300-0909-service.zip

- Fixed Intermittent metadata on local-output
  - Fixed: 1080psf23,98 support and locking to ref in 1080psf23,98
  - Fixed: Embedding multiple groups in 1080psf23,98 video format
  
  - Added item "GPI+LossDetect" to setting Control to override any Loss/Detect preset switches, works only in Latch mode (edge-triggered).
  - Added "0" to GPI status to indicate in nonLatch mode (level triggered) no gpi input is active.
  - Added "S2020-Rail1", "S2020-Rail2" and "MD-LocalIn" to setting LossDetect to also be able to switch presets.
  - Added "S2020-SDID" and "ProgramConfig" to setting Detect to switch to predefined preset according to value of ProgramConfig or SDID value.
- [S2020-SDID:
- 00 (None) -> Preset 1;
  - 01 (Ch01/02) -> Preset 1;
  - 02 (Ch03/04) -> Preset 2;
  - 03 (Ch05/06) -> Preset 3;
  - 04 (Ch07/08) -> Preset 4;
  - 05 (Ch09/10) -> Preset 5;
  - 06 (Ch11/12) -> Preset 6;
  - 07 (Ch13/14) -> Preset 7;
  - 08 (Ch15/16) -> Preset 7;]
- [ProgramConfig:
- 7.1 -> Preset 1;
  - 5.1+2 -> Preset 2;
  - 5.1 -> Preset 3;
  - 4x2 -> Preset 4;
  - 3x2 -> Preset 5;
  - 2+2 -> Preset 6;
  - Other -> Preset 7;]
- added: AutoPhaser-Status (only available when locked to reference) and Setting to enable/disable the autophaser status:
  - 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
  - Added Lock-Status alarm
  - Added CRC-Status1 and CRC-Status2 alarm.
  - Added Level-B mapping status-items for SDI1 and SDI2 (Input Status Only)
  - Fixed 2 audio sample delay between Grp1/2 and Grp3/4
  - G/HRB 9/5 series: TWINS Mode: Card delay is 4 lines per channel, and 1 line when video delay is bypassed.
  - Single-Input Mode: Card delay is 7 lines, and 1 line when video delay is bypassed.
  - Changed generation of audio-status-bits:
  - Aux. sample bits used for main audio sample data = 24 bits
  - Max audio sample word length = 24 bits

**Software version** 0808  
**Hardware version** 0100, 0101, 0200, 0300, 0301  
**Platform** SYGEG1  
**Date** 27-09-2011  
**Filename** GRBxxx-0100to0301-0808-service.zip

- Added setting Add-IO-Mode for changing input/output order of the add-on bus
- Added status items for Local Audio inputs status.
- Added events for CRC, and Silence Local Audio 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** 0100, 0101, 0200, 0300  
**Platform** SYGEG1  
**Date** 06-12-2010  
**Filename** GRBxxx-0100to0300-0707-service.zip

This firmware is applicable for:  
GRB550, GRB590, GRB950, GRB990,  
HRB550, HRB590, HRB950, HRB990,

- Fixed: Embedding in 3G
- Fixed: Possible artifacts while switching between sources when locked to ref
- Added: setting Delay-Bypass for minimal processing delay (approx. 2 lines in single mode, 1 line for twins mode)
- Added Silence detection for audio

**Software version** 0605  
**Hardware version** 0100, 0101, 0200, 0300  
**Platform** SYGEG1  
**Date** 08-10-2010  
**Filename** GRBxxx-0100to0300-0605-service.zip

This firmware is applicable for:  
GRB550, GRB590, GRB950, GRB990,  
HRB550, HRB590, HRB950, HRB990,

- Fixed: stabilised main pll circuit which could cause crc errors/green flashes on the output
- Fixed: clearing de-embedding buffer when audio group is removed

Added status items SDI1-Ref\_Offset and SDI2-Ref\_Offset which displays the Input to Ref timing when locked to Ref and Delay-Status is on.

**Software version** 0203  
**Hardware version** 0100, 0101, 0200, 0300  
**Platform** SYGEG1  
**Date** 04-06-2010  
**Filename** GRBxxx-0100to0300-0203-service.zip

This firmware is applicable for:  
GRB550, GRB590, GRB950, GRB990,  
HRB550, HRB590, HRB950, HRB990,

First Release

Note:

- When updating from existing GRBxxx software, the settings Phaser1\_Offset and Phaser2\_Offset both have a new default value and are set to 0 px. Please check that these settings are set to these values! (In previous releases the default value was set to 400 px, when GRBxxx is locked to Ref, in particular cases this can result in 1 line offset).
- Also the F/V/H-settings to create minimum delay is corrected, setting F/V/H-Delay to 0 results in minimum delay of the card.