

eego rt SDK Release Notes

SDK revision **1.3.19**
Document revision 1.0

Before you can start working with the Software Development Kit (SDK) for the eego amplifier you must read the user manuals for the SDK and for the eego amplifier.

Changes and History

Version 1.3.19	Internal issue ID
<i>New features</i>	
1) removed license	
<i>Bug fixes since version 1.3.16</i>	
NA	
<i>Known problems</i>	
This version of the SDK only supports EE-401, EE-430, EE-410, EE-411 amplifiers with serial numbers above 000029 and firmware version 011700 and 011800.	
EE-401: All amplifiers EE-401 with serial numbers above 000029 require the use of SDK 1.3.13. These amplifiers will not work in combination with earlier SDK releases.	
Documentation update regarding unicode support is required	2422
EE-21x, EE-22x: Bipolar channels only support sampling rates up to 8192Hz!	2100
EE-401, EE-430, EE-410, EE-411: impedance values can appear to low if GND or REF are fully open (e.g. cap is not gelled)	3165
EE-401, EE-430, EE-410, EE-411: impedance values incorrectly initialized, first impedance reading cycle delivers wrong values	3162

Changes and History

Version 1.3.16	Internal issue ID
<i>New features</i>	
1) adding support for EE410 class amplifiers	
2) adding support for EE4xx firmware versions 012000 and up(until 020000)	
<i>Bug fixes since version 1.3.15</i>	
Streaming could not begin data transfer: USB_D_STATUS_BUFFER_UNDERRUN. The issue caused the device not to be detected during initialization. Risk management was and is not effected.	2612
Sample counter should not be negative	2347
<i>Known problems</i>	
EE-401: This version of the SDK only supports EE-4XX amplifiers with serial numbers above 000029 and firmware version 011700 and 011800.	
EE-401: All amplifiers EE-401 with serial numbers above 000029 require the use of SDK 1.3.13. These amplifiers will not work in combination with earlier SDK releases.	
Documentation update regarding unicode support is required	2422
EE-2xx Bipolar channels only support sampling rates up to 8192Hz!	2100
EE-401 impedance values can appear to low if GND or REF are fully open (e.g. cap is not gelled)	3165
EE-401 impedance values incorrectly initialized, first impedance reading cycle delivers wrong vlaues	3162
EE-401 impedance mode only introduced and tested in combination with prototype cap CW1061.11	3163

Changes and History

Version 1.3.15	Internal issue ID
<i>New features</i>	
1) adding support for EE411 and EE430 class amplifiers	
<i>Bug fixes since version 1.3.14</i>	
<i>Known problems</i>	
EE-401: This version of the SDK only supports EE-4XX amplifiers with serial numbers above 000029 and firmware version 011700 and 011800.	
EE-401: All amplifiers EE-401 with serial numbers above 000029 require the use of SDK 1.3.13. These amplifiers will not work in combination with earlier SDK releases.	
Streaming could not begin data transfer: USB_D_STATUS_BUFFER_UNDERRUN	2612
Sample counter should not be negative	2347
Documentation update regarding unicode support is required	2422

EE-2xx Bipolar channels only support sampling rates up to 8192Hz!	2100
EE-401 impedance values can appear to low if GND or REF are fully open (e.g. cap is not gelled)	3165
EE-401 impedance values incorrectly initialized, first impedance reading cycle delivers wrong vlaues	3162
EE-401 impedance mode only introduced and tested in combination with prototype cap CW1061.11	3163

Changes and History

Version 1.3.14

Internal issue ID

New features

1) added SDK initialization data

Bug fixes since version 1.3.13

Known problems

EE-401: This version of the SDK only supports EE-401 amplifiers with serial numbers above 000029 and firmware version 011700.

EE-401: All amplifiers EE-401 with serial numbers above 000029 require the use of SDK 1.3.13. These amplifiers will not work in combination with earlier SDK releases.

Streaming could not begin data transfer: USBD_STATUS_BUFFER_UNDERRUN

2612

Sample counter should not be negative

2347

Documentation update regarding unicode support is required

2422

EE-2xx Bipolar channels only support sampling rates up to 8192Hz!

2100

EE-401 impedance values can appear to low if GND or REF are fully open (e.g. cap is not gelled)

3165

EE-401 impedance values incorrectly initialized, first impedance reading cycle delivers wrong vlaues

3162

EE-401 impedance mode only introduced and tested in combination with prototype cap CW1061.11

3163

Changes and History

Version 1.3.13

Internal issue ID

New features

Bug fixes since version 1.3.12

Known problems

EE-401: This version of the SDK only supports EE-401 amplifiers with serial numbers above 000029 and firmware version 011700.

EE-401: All amplifiers EE-401 with serial numbers above 000029 require the use of SDK 1.3.13. These amplifiers will not work in combination with earlier SDK releases.

Streaming could not begin data transfer: USBD_STATUS_BUFFER_UNDERRUN

2612

Sample counter should not be negative

2347

Documentation update regarding unicode support is required

2422

EE-2xx Bipolar channels only support sampling rates up to 8192Hz!

2100

EE-401 impedance values can appear to low if GND or REF are fully open (e.g. cap is not gelled)

3165

EE-401 impedance values incorrectly initialized, first impedance reading cycle delivers wrong vlaues

3162

EE-401 impedance mode only introduced and tested in combination with prototype cap CW1061.11

3163

Changes and History

Version 1.3.12

Internal issue ID

New features

1) recovery from temperature powerdown in eegomini-amplifiers

2) accurate impedance values for eegomini

Bug fixes since version 1.3.9

Known problems

Streaming could not begin data transfer: USBD_STATUS_BUFFER_UNDERRUN

2612

Sample counter should not be negative

2347

Documentation update regarding unicode support is required

2422

EE-2xx Bipolar channels only support sampling rates up to 8192Hz!

2100

EE-401 impedance mode is not backwards compatible with EE-401 prototype amplifiers shipped before 2016-02-12

3164

EE-401 impedance values can appear to low if GND or REF are fully open (e.g. cap is not gelled)

3165

EE-401 impedance values incorrectly initialized, first impedance reading cycle delivers wrong vlaues

3162

EE-401 impedance mode only introduced and tested in combination with prototype cap CW1061.11

3163

Changes and History

Version 1.3.9 - Beta		Internal issue ID
<i>New features</i>		
1) EE-401 impedance mode implemented and simulator removed (only for referential mode: 8 channel		
2) EE-401 support for sampling rate 512Hz added		
<i>Bug fixes since version 1.3.9.34481</i>		
resources not disposed of properly		3136
<i>Bug fixes since version 1.3.8</i>		
<i>Known problems</i>		
Streaming could not begin data transfer: USBD_STATUS_BUFFER_UNDERRUN		2612
Sample counter should not be negative		2347
Documentation update regarding unicode support is required		2422
EE-2xx Bipolar channels only support sampling rates up to 8192Hz!		2100
EE-401 impedance mode is not backwards compatible with EE-401 prototype amplifiers shipped before 2010-02-12		3164
EE-401 impedance values can appear to low if GND or REF are fully open (e.g. cap is not gelled)		3165
EE-401 impedance values incorrectly initialized, first impedance reading cycle delivers wrong values		3162
EE-401 impedance mode only introduced and tested in combination with prototype cap CW1061.11		3163
Changes and History		
Version 1.3.8 - Beta		Internal issue ID
<i>New features</i>		
1) Support for Windows 64-bit added		
2) Simulator for EE-401 impedances added		
3) Support for EE-401 added		
<i>Bug fixes since version 1.3.6</i>		
A power cycled amplifier should be available if turned on and if it is connected		2590
SDK is incompatible with Windows XP (will not be implemented)		2476
<i>Known problems</i>		
resources not disposed of properly		3136
Streaming could not begin data transfer: USBD_STATUS_BUFFER_UNDERRUN		2612
Sample counter should not be negative		2347
Documentation update regarding unicode support is required		2422
Bipolar channels only support sampling rates up to 8192Hz!		2100
Version 1.3.6		Internal issue ID
<i>New features</i>		
1) Support for Linux 64-bit added		
<i>Bug fixes since version 1.3.4</i>		
Bipolar sign fix		
<i>Known problems</i>		
Streaming could not begin data transfer: USBD_STATUS_BUFFER_UNDERRUN		2612
A power cycled amplifier should be available if turned on and if it is connected		2590
Sample counter should not be negative		2347
SDK is incompatible with Windows XP (will not be implemented)		2476
Documentation update regarding unicode support is required		2422
Bipolar channels only support sampling rates up to 8192Hz!		2100
Version 1.3.4		Internal issue ID
<i>New features</i>		

- 1) Added licensing
- 2) Support for Linux added
- 3) no changes to API; existing applications should not have to be updated

Bug fixes since version 1.3.3

Known problems

Streaming could not begin data transfer: USB_D_STATUS_BUFFER_UNDERRUN	2612
A power cycled amplifier should be available if turned on and if it is connected	2590
Sample counter should not be negative	2347
SDK is incompatible with Windows XP (will not be implemented)	2476
Documentation update regarding unicode support is required	2422
Bipolar channels only support sampling rates up to 8192Hz!	2100

Removed features

Streaming mode calibration has been removed

Version 1.3.3

Internal issue ID

New features

- 1) Support for eego amplifiers: EE- 211, EE- 212, EE- 213, EE- 214, EE-215 (rev 1.1) and EE- 221, EE- 222, EE- 223, EE- 224, EE-225 (rev 1.0)
- 2) Compatible with eego amplifier Firmware revision 020032 and driver revision 1.2.3.3
- 3) Support for Windows 7, Windows 8.1 (32 bit and 64 bit)
- 4) Referential, bipolar and trigger channel streaming
- 5) Impedance streaming

Bug fixes since version X.X.X

first release

Known problems

SDK is incompatible with Windows XP (will not be implemented)	2476
Documentation update regarding unicode support is required	2422
Bipolar channels only support sampling rates up to 8192Hz!	2100