Release Notes. GLL-Package V 4.1

Changes of version 4.1 against 4.0

All new and modified GLLs have been compiled with the current controller setups. Final product-sheets for new products will be provided with the next release. Until the information is available in the GLL, please use the current information and data from the relevant manuals and technical information.

New GLL versions

CCLi LA V3.22

- CCLi8, CCLi12, CLi-SUB, B12 added

U-Series PS V2.42

- U3, U3N, U5, U5N, U7, U7N, B10, B10N, B12 added

Updated GLL versions

GSL, KSL, KLSi, XSL, XSLi LA V3.22

- Improved files with new balloon measurements, better accuracy of low frequency data

xS-Series PS V3.22

- 42S, B10, B10N, B12 added, 44S wrong balloon orientation corrected

A-Series PS V1.20

- B10, B12, V-SUB added, adjusted sensitivity

A-Series LA V2.24

- Adjusted sensitivity

CCL LA V3.22

- Adjusted sensitivity, improved files with new balloon measurements, better accuracy of low frequency data

E-Series PS V1.20

- B10, B12 added, E5 adjusted sensitivity

d&b EASE GLL packages vs. GLL version numbers

GLLs with updated data are **highlighted***.
For specifics, please check respective release notes.

GLL package version Released Compatible ArrayCalc version**		**3.7** 05/2023 11.0 R002	**3.8** 04/2024 11.0 R003	**3.9** 05/2023 11.4 R001	**4.0** 05/2025 12.0 R005	**4.1** 03/2026 12.6 R004
Series	**GLL**	**GLL version**	**GLL version**	**GLL version**	**GLL version**	**GLL version**
A-Series	A-Series LA	**2.06**	2.06	**2.08**	2.08	**2.24**
	A-Series PS	1.01	1.01	1.01	1.01	**1.20**
CL-Series	CCL LA	-	-	-	**3.06**	**3.22**
	CCLi LA				**-**	**3.22**
E-Series	E-Series PS	**2.38**	2.38	2.38	2.38	**2.42**
J-Series	J-Series LA	2.21	2.21	**2.22**	2.22	2.22
Monitors	M4	1.20	1.20	1.20	1.20	1.20
	M6	1.20	1.20	1.20	1.20	1.20
	MAX2	1.01	1.01	1.01	1.01	1.01
Q-Series	Q-Series PS	2.30	2.30	2.30	2.30	2.30
SL-Series	GSL LA	3.12	3.12	3.12	3.12	**3.22**
	KSL LA	3.16	3.16	**3.18**	3.18	**3.22**
	KSLi LA	3.04	3.04	**3.06**	3.06	**3.22**
	XSL LA	3.04	3.04	**3.06**	**3.08**	**3.22**
	XSLi LA	3.04	3.04	**3.06**	3.06	**3.22**
	SL-SUB	2.03	2.03	2.03	2.03	2.03
T-Series	T-Series LA	**2.02**	2.02	2.02	2.02	2.02
	T-Series PS	2.30	2.30	2.30	2.30	2.30
U-Series	U-Series PS	**-**	-	**-**	-	**2.42**
V-Series	V-Series LA	**2.24**	2.24	**2.26**	2.26	2.26
	V-Series PS	2.30	2.30	2.30	2.30	2.30
xA-Series	xA-Series A	2.00	**2.00**	2.00	2.00	2.00
	xA-Series AL	2.30	**2.30**	2.30	2.30	2.30
xC-Series	xC-Series PS	2.62	2.62	2.62	2.62	2.62
xS-Series	xS-Series PS	3.10	**3.10**	3.10	3.10	**3.22**
Y-Series	Y-Series LA	**2.22**	2.22	**2.24**	2.24	2.24
	Y-Series PS	2.32	2.32	2.32	2.32	2.32

* A change of GLL file name does not constitute a change in data.

** This indicates the minimum ArrayCalc version all of the GLLs in the package are expected to be comptible with.
Should you experience any issues, please let us know at support@dbaudio.com. Please always indicate the exact version number of the GLL you are using and the exact version of ArrayCalc that you created the GLL configuration file with and include the ArrayCalc project file and GLL configuration file in question.

This package contains the following GLL-Data Sets

Series	File name	Contained loudspeakers
A-Series	A-Series LA	AL60, AL90, V-SUB, ALi60, ALi90,Vi-SUB
	A-Series PS	AL60 PS, AL90 PS, **B10, B12, V-SUB**
CL-Series	CCL LA	CCL8, CCL12, CCL-SUB
	CCLi LA	**CCLi8, CCLi12, CCLi-SUB, B12**
E-Series	E-Series PS	E4, E5, E6, E8, E12, E12-D, B4-SUB, B8-SUB, E12X-SUB, **B10, B12**
J-Series	J-Series LA	J8, J12, J-SUB, J-INFRA
Monitors	M4	M4
	M6	M6
	MAX2	MAX2
Q-Series	Q-Series PS	Q7, Q10, Q-SUB
SL-Series	GSL LA	GSL8, GSL12, SL-SUB
	KSL LA	KSL8, KSL12, KSL-SUB, SL-SUB
	KSLi LA	KSLi8, KSLi12, KSLi SUB, SL-SUB
	XSL LA	XSL8, XSL12, XSL-SUB
	XSLi LA	XSLi8, XSLi12, XSL-SUB
	SL-SUB LA	SL-SUB
T-Series	T-Series LA	T10, T-SUB, Ti10, Ti-SUB
	T-Series PS	T10, T-SUB
U-Series	**U-Series PS**	**U3, U3N, U5, U5N, U7, U7N, B10, B10N, B12**
V-Series	V-Series LA	V8, V12, V-SUB, Vi8, Vi12, V-SUB
	V-Series PS	V7P, V10P, V-SUB
xA-Series	xA-Series A	10A, 10A-D,18A-SUB, 27A-SUB
	xA-Series AL	10AL, 10AL-D, 18A-SUB, 27A-SUB
xC-Series	xC-Series	24C, 24C-E, 16C
Xs-Series	xS-Series	4S, 5S, 8S, 10S, 10S-D, 12S, 12S-D, 18S-SUB, 24S, 12S-SUB, 24S-D, 27S-SUB, **42S,** 44S, B(i)8, **B10, B10N, B12**
Y-Series	Y-Series LA	Y8, Y12, Y-SUB, Yi8, Yi12, Yi-SUB
	Y-Series PS	Y7P, Y10P, Y-SUB, B6-SUB, B6-INFRA

Release Notes of former Versions

Changes of version 4.0 against 3.9

New GLL versions

CCLi LA V3.06

- *CCL8, CCL12, CL-SUB added*

Updated GLL versions

XSL LA V3.08

- *Bugfix, wrong configuration*

Changes of version 3.8 against 3.7

xA-Series LA V2.36

- Bugs that occurred with EASE V5 fixed

xA-Series PS V2.06

- Bugs that occurred with EASE V5 fixed

xS-Series PS V3.12

- Bugs that occurred with EASE V5 fixed

Changes of version 3.7 against 3.6

A-Series LA V2_06

- Descriptor Bug that lead to problems with ArrayCalc export for AP configs fixed

E-Series 2.38

- Faulty balloon corrected

T-Series LA V2_02
- Install-LS and additional rigging now available

Y-Series LA V2_22
- Install-LS and additional rigging now available

V-Series LA V2_24
- Install-LS and additional rigging now available

Changes from version 3.6 against 3.5

GSL LA V3_16
- Bug: Correction of Z-Number for GSL flying frame. **Note:** Interoperability only provided with AC 10.26 R002 and later

KSL LA V3_16
- Feature: Implementation of pullback frame
- Adjustment of Z-Number Touring Cart Compression / Tension. **Note:** Interoperability only provided with AC 10.26 R002 and later
- Adjustment of KSL-SUB Baloon

KSLi LA V3_04
- Feature: Implementation of pullback frame
- Adjustment of KSL-SUB Baloon

XSL LA V3_04
- Feature: Implementation of XSL-SUB
- Feature: Implementation of pullback frame

XSLi LA V3_02
- Feature: Implementation of XSL-SUB
- Feature: Implementation of pullback frame

Changes from version 3.5 against 3.4

A-Series LA V2.04
- V-Sub now also available in A-Series GLL
- ArrayProcessing Export from ArrayCalc to EASE now enabled
- Stacked configurations now available

E-Series PS V2_34
- Export Problem for E8 due to faulty Filter-Naming fixed
- Export-Version actualized. **Note:** Interoperability only provided with AC 10.20 R001 and later

KSL LA V3_14

- Export Problem ArrayCalc to EASE for stacked SUB configuration fixed

XSL LA V3_02

Entirely new GLL. It enables implementation of XSL8, XSL12 cabinet in EASE.

XSLi LA V3_02

Entirely new GLL. It enables implementation of XSLi8, XSLi12 cabinet in EASE.

V-Series LA V2.22

- Export Bug for malfunctioning filter-configurations fixed

Y-Series PS V2.32

- Malfunctioning system-identifier necessary for ArrayCalc to EASE export corrected

xA-Series V2_30

- Revision of speaker balloons for 10AL and 10 AL-D implemented, due to changes in ArrayCalc
- Corrupted ArrayCalc to EASE Export fixed

Changes from v3.4 against v3.3

E-Series PS V2_32

Insertion points for SUBS adjusted to ArrayCalc's export positions
B8-SUB included to the GLL.
Mistakes in Z-Numbering for ArrayCalc to EASE Export corrected
Revision of balloon for E 12 loudspeakers implemented, due to changes in ArrayCalc
Changed speaker balloon for E 8, due to implementation of wrong balloon beforehand

KSL LA V3_12

Enabling Point Source Export of KSL-Point Sources with this GLL.
Mistakes in Z-Numbering for ArrayCalc to EASE Export corrected for stacking-cart configuration.

KSLi LA V3_02

Entirely new GLL. It enables implementation of KSLi8, KSLi12, KSLi-SUB and SL-SUB cabinet in EASE.

xC-Series V2_62

- Revision of speaker balloon for 24CE implemented, due to changes in ArrayCalc.
- Changed all system eq's to maintain compatibility with ArrayCalc.

Further Changes
Please Note: For the sake of unification the version numbers and/or names of GLL's have been partially modified. This also applies for GLL's, that have not been modified apart from this renaming. Still the respective file names are **highlighted**.

Changes of V3.1 against v3.0
A-Series GLLs added

Changes of V3.0 against v2.9
KSL-System added

Changes of V2.9 against v2.8
SL-Series added, Sub-woofers added to pointsource GLLs

Changes of V2.8 against v2.7
24S, 24S-D and T-Series LA with Array processing added. Wrong case drawing of the 24CE corrected.
Changes of V2.7 against v2.6
MAX2 added

Changes of V2.6 against v2.5
J-Series, V-Series and Y-Series LA changed to be compatible with ArrayCalc V8.6.3 or higher Array processing export.

Changes of V2.5 against v2.4
J-Series, V7P and V10P added. J-Series, V-Series and Y-Series LA changed to be compatible with ArrayCalc Array processing export.

Changes of V2.4 against v2.3
More accurate balloon data for the 24C-E, Y-Series PS changed to be compatible with ArrayCalc export.

Changes of V2.3 against v2.2
16C insertion point changed to be compatible with ArrayCalc

Changes of V2.2 against v2.2
Y-Series added

Changes of V2.1 against v2.0
16C added.
24C and 24C-E sensitivity corrected.
Bug fix: Error when importing ArrayCalc configurations with both HFA and CUT activated fixed.

Changes of V2.0 against v1.5
24C, 24C-E, E4, E5 added
All files updated to be compatible with the new D80 amplifier platform.
All fullrange loudspeakers of one series are now contained in one GLL file. This was necessary to support some mechanical features like horn rotation and to assemble small arrays of two loudspeakers. Only the EASE V2.0 GLLs support the new d&b ArrayCalc EASE export function.

Changes of V1.5 against v1.4
New versions of the V-Series GLL and 10AL/10AL