d&b ArrayCalc V10 Release notes

The d&b ArrayCalc simulation software is the simulation tool for d&b line arrays, column and point source loudspeakers as well as subwoofers. This is a comprehensive toolbox for all tasks associated with acoustic design, performance prediction, alignment, rigging and safety parameters.

OS requirements
Windows: Win7 or higher
macOS (Intel): 10.12 or higher
macOS (M1): 11.0 or higher

Windows OS information:
On Windows, an automatic update of previous versions of ArrayCalc V10.16.1 is not possible using the internal update feature. Please install the latest version manually from www.dbaudio.com.

Note: The Windows version starting from ArrayCalc V10.16.1 is created for 64-bit operating systems. This is the recommended version for all users.
If a 32-bit version of ArrayCalc is required, use ArrayCalc V10.14.1 which can be downloaded from the Software archive.

V10.16.2

Bug fixes:
- Crash during devices setup fixed.

02/2021

V10.16.1

The Windows version of ArrayCalc V10.16.1 is created for 64-bit operating systems and has to be downloaded and installed manually. This is the recommended version for all users.
If a 32-bit version of ArrayCalc is required, use ArrayCalc V10.14.1 which can be downloaded from the Software archive.

Features:
- Devices table added to Devices view. The table serves to manage the device names.
- Project issues are now shown in a separate "Project report" window, which can be moved, for example, onto a second screen. The window can be opened by clicking on the flag in the tool bar (next to the Project author and Project name icons).

The "Validate project" button, which in previous ArrayCalc versions was included in the ">>" menu on the Devices view, is now available in the "Project report" window.
- Projects can now be saved even if there are amplifier issues like duplicated remote IDs. In this case, however, the project is not yet "Ready for R1" and cannot be opened in R1. The issues must first be resolved in ArrayCalc. Whether a project is "Ready for R1" or not is shown in the tool bar of ArrayCalc.
- Support of the new Soundscape function groups "Outfill embedded" and "Delay line embedded" added.

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- Further Soundscape example projects added.
- A chain of two DS10 devices can now be built:
  DS10 → DS10 → amplifier → loudspeaker
- ArraySight devices added to a project are now automatically configured using Remote IDs of the subnet 99, such as 99.01, etc.
- When adding new monitors, the default loudspeaker now is M6 instead of M2 since M6 is also supported by the D20, D6, and 10D amplifiers.
- Default Input mode for newly created D80 and D20 devices now is "Digital / Digital".
- When importing a source group, the Remote IDs of the imported file are now taken over instead of being newly generated.
- Improved load limit calculation.

Bug fixes:
- Crash when moving the venue origin by 200 m in z direction fixed.
- SPL mapping diagram on the Sources view now correctly reflects changes to the tilt angle of 44S loudspeakers.
- After deleting the last V-SUB in a vertically flown A-Series array, the V Flying frame is correctly replaced by the AL Flying frame.
- For a vertically flown A-Series array with two V-SUBs the print-out and the Rigging plot view now show the correct single pick point instead of "–".
- The Arrival time diagram on the Alignment view now shows all impulses even if a high number of source groups is used.
- On the Alignment view, the minus button for the relative adaptation of the delay for all sources to the SUB array now correctly decrements to the minimum delay value.
- On the print-out and the PNG export of the 3D plot, the selected loudspeakers are no longer drawn with the highlight color.
- ArraySight devices are taken into account in the Parts list.
- Wrong values for single pick point position for xA-Series arrays displayed on the Rigging plot view fixed if the xA-Flying bar adapter is mounted in a rearward direction.
- A project with two arrays using the same DS10/D100 channel for patching can now be successfully saved.
- EASE export for stacked arrays fixed. Please use new EASE GLLs for latest compatibility.
- EASE export for 24C with non-zero HF angles fixed.
- For a 24C loudspeaker with a rotation of 90° and a non-zero HF angle, the line for the HF angle is now correctly drawn and matches the 3D plot results.
- Freezing of ArrayCalc fixed when changing number of cabinet positions of the SUB array on 3D plot while Array Calc is already calculating.

02/2021

V10.14.1

Features:
- Support of 44S loudspeaker.
- Support of KSLi rigging accessories.
- Support of AL V-SUB adapter frame (Z5461)
- Support of ALi Mounting Frame Top (Z5459)

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- Venue database: The "Venue database" consists of a list of venues, which is hosted on a d&b server and can be accessed using ArrayCalc. To open the "Venue Database" dialog, go to the "Venue" view in ArrayCalc and select the "Venue Database" option from the ">>" menu.

Bug fixes:

- Missing -10° angle for the KSL stacking frame added in the dropdown list for the "Splay to frame/SUB" item.
- Issue with a duplicated patch caused by changing remote IDs for an array or SUB array that is patched to a DS10 or DS100 fixed.
- In the Devices view, it is no longer possible to assign a function group to an array without defined loudspeakers.
- On macOS, ArrayCalc no longer crashes when moving the ArrayCalc window from one screen to another and then open and close several drop-down lists.
- On macOS, the position, size and the screen used in the last session is now correctly restored.
- Issue with a project file containing a T-Series point source group with a Q-SUB or E15-SUB not loading fixed.
- Unexpected geometry changes of an Arc segment after multi-selection and drag&drop in the venue elements table fixed.
- Crash when loading a project from the 3D plot memory containing an additional amplifier group with "All series" settings fixed.

Note:
The HF angles for the 24C and 24C-E are now stored as negative angles as they describe the HF adjustments in a mathematically negative direction.
ArrayCalc automatically detects older projects and converts the positive values for the HF angle into negative values.
When using the latest NoizCalc update, this version expects 24C and 24C-E HF angles as negative values. When you have an older dbpr project file with 24C or 24C-E loudspeakers, first load it and save it using ArrayCalc V10.14 before using this project with the latest NoizCalc version.

10/2020

V10.12.4

Bug fixes:

- Issue with the "Profile at 0° aiming" diagram in the Alignment view fixed, which used wrong coordinates of the test point when planes of the array were in the back.
- Inconsistent number of comma/semicolon separators in the CSV patch export fixed.
- Issue with wrong indication of password protection fixed when loading a venue file (*.dbacv) or a file from ArrayCalc V7 and previous versions (*.dbac).
- Issue with saving a project after using the 3D plot functions to save to or load from the 3D view memories fixed.
- ArrayCalc no longer shows "The project file was changed in another program" message when project file is saved in a shared OneDrive folder on macOS.
- Issue with total number of amplifiers incorrectly displayed in the Devices view after enabling ArrayProcessing fixed when the cabinets of the array were previously linked.

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- Scrolling within several tables using the track pad on macOS fixed.
- The collapsed state of the source group settings pane is now properly maintained when selecting another source group.
- Issue with the venue comments section showing two vertical scroll bars fixed.
- Performance and out-of-memory issues fixed when using drag&drop for a larger number of venue elements in the venue element list.
- Crash when using drag&drop for a joined venue group in the venue element list fixed.
- Issue with drag&drop not inserting an element at the intended place after adding new venue elements fixed.
- Issue with changes made to the venue elements of a saved project not marking the project as modified when there are multi-selected elements fixed.
- Issue with the color selected for a plane not correctly shown in the 3D plot fixed.
- "Position z" and "Vertical aiming" values for the SUB array are now shown as read-only elements in both the Alignment view and the Sources view. Editing those values is still only allowed in the 3D plot view.
- Field for the number of cabinets per position in the SUB array is now correctly updated after an invalid input is made.
- Issue with the speaker selection drop down for an Additional amplifier group listing the speaker multiple times when using "All series" fixed.
- Issue with the DS100 output channel names being overwritten by automatically generated names when opening a project file fixed.
- The "Duplicate remote IDs found" message in the "Unused channels" section now correctly shown whenever the remote ID is used on more than one amplifier, no matter if those amplifiers have unused channels or not.

08/2020

V10.12.1

Features:
- Support of KSL-SUB loudspeaker.
- Support of A-Series stacked on AL base plate.
- Support of SL-Series stacked.
- Support of SL-Series carts.
- EASE export for SL-Series CPL.
- Reduced configuration option.
- Option to create a new source group on import.
- Displaying horizontal dispersion lines of the selected loudspeaker.
- Enabling ArrayProcessing and AutoSplay and performing Copy, Paste, Import and Export of source groups is now also possible on the Alignment and the 3D plot view.
- Extended availability of loudspeakers when a certain series is selected
  - For A-Series arrays and point source groups, the V-SUB can be used.
  - For E-Series point source groups, the B4-SUB and B8-SUB can be used.
  - For KSL stacked arrays and point sources, the SL-SUB can be used.
  - For T-Series point source groups, the B4-SUB, Q-SUB and E15-SUB can be used.

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    − For xS-Series point source groups, the B8-SUB can be used.

    − For Y-Series point source groups, the B6-SUB and B6-INFRA can be used.

Bug fixes:

- Issue with wrong number of amplifiers shown on the Parts list view fixed.

- Issue with missing units of the absolute values of a multiselection of loudspeakers in a Point source group or a SUB array fixed.

- Issue with an amplifier input mix like 1+2 only allowing to select one output for the connected DS device fixed.

- Issue showing a distorted venue in the SPL mapping diagram after minimizing the profile view for a Point source group fixed.

- Number of total amplifiers now correctly updating when multi-selecting source groups in the Devices view.

- Crash when changing to the "Audio network devices" tab containing non-distinct patches fixed.

- Issue with the configuration for the HF orientation of xA-Series arrays fixed, which was not correctly restored when loading a project.

- Missing automatic scrolling when moving with the TAB key through input fields fixed.

- Issue on Windows 10 with window of another application popping into the foreground fixed.

- Issue with All elements list on Venue view jumping to the top when rearranging it using drag&drop fixed.

- Issue with an Arc segment becoming distorted after changing from multi-selection of venue elements to a single selection by clicking on the color selection fixed.

- Issue with unfinished automatic recalculation after printing 3D plot fixed.

03/2020

V10.10.4

Bug fixes:

- Issue with EASE export for array-processed source groups fixed.

- Issue with intersections for supereliptic planes not being shown correctly on Profile view fixed.

- Issue with the "position z" value of the SUB array fixed, which was not set correctly after loading a project.

- Conversion of the old CPL value to the new SL-Series CPL value now properly works when importing a GSL or KSL array from a previous ArrayCalc version.

- Issue with the sound of some loudspeakers placed next to an obstacle being absorbed and the sound of others at the same position not being affected fixed.

- Issue with patch validation checking for AES neighboring patches routed to input source D2 and D3 on an amplifier fixed.

- Crash sporadically happening when changing tabs on the Devices view fixed.

- Crash fixed when clicking several times on the Delay for a point source group on the Alignment view while Autocalculate is enabled on the Sources view.

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- Issue with saving a project file when patching the input for several amplifier channels to the same DS10 output fixed.

02/2020

V10.10.2

Bug fixes:

- In the Alignment "Top view" diagram, the scaling of the buttons for moving the test point has been improved to more useful increments of 10 cm instead of 1 cm.
- Crash caused when disabling ArrayProcessing for an array fixed.
- Missing update of the mute "different" state corrected when changing the mute state of individual speakers in a point source group with symmetrical configuration.
- Issue with snapshots generated for KSL or GSL arrays without ArrayProcessing causing a conflict in R1 fixed.

01/2020

V10.10.1

Features:

- Support of new CPL function for the SL-Series. Coupling for low and mid frequencies can now be set separately (CPL low, CPL mid). Available for all GSL and KSL setups (AP, Arc, Line).
- Support of the new THC (Temperature & Humidity Control) function for all array-processed setups which allows subsequent temperature and humidity adjustment in R1 without the need for recalculation in ArrayCalc.

Note: Both the THC function and the new CPL function for the SL-Series require the use of the latest version of R1 V3.10.0 (or higher) in combination with the latest amplifier firmware V2.20.00 (or higher).

Note: Existing project files based on an old ArrayCalc or R1 version can still be used in combination with old firmware. To use the new firmware including the new functions with existing project files, ArrayProcessing data must be recalculated using ArrayCalc and the R1 AutoCreate function should be re-executed.

Bug fixes:

- Indication of incorrect coverage value of AL90 used as a point source in ArrayCalc Help fixed.
- Admission to change an array-processed array to D12 after loading a project fixed.
- Wrong calculation of Required space diagram on Rigging plot fixed.

12/2019

V10.8.3

MacOS information:
This new ArrayCalc version V10.8.3 requires macOS 10.12 or higher. If you are running macOS versions prior to 10.12, you can use ArrayCalc version 10.6.13 from our heritage software section. See link:
https://www.dbaudio.com/global/en/products/software/software-archive/

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Bug fixes:

- Issue when loading a project file containing M4, M6 or Ci90 from previous ArrayCalc versions fixed.
- Issue when loading a project file using a Q7 in a line array fixed.
- Empty "Grab link position" diagram fixed when loading a project with an array using Compression mode.
- Issues when saving a project containing a mixed SUB array fixed.
- Dispersion lines for the outer cabinets of an A-Series horizontal array fixed.
- For A-Series arrays, the single pickpoint is no longer shown in steps of 0.5 but in steps of integer values.
- For V-Series arrays, in practice the last possible pickpoint hole position 40 cannot be used. Therefore in ArrayCalc position 39.5 was defined as the last possible pickpoint position.
- Issue with a message prompted that the project was changed by another program fixed when saving a project in a DropBox folder using macOS.
- After importing a SUB array, the Alignment section for the SUB array is now properly shown.
- After changing the amplifier model from D80 to D12, the project file can now be properly loaded.
- Crash when changing amplifier model from D80 to D12 and applying the "Configure amps" function fixed.
- Crash when changing the series for multiple selected arrays fixed.
- Crash when changing the SUB system of a symmetrically linked SUB array fixed.
- Crash when changing the linking mode of the SUB array fixed.
- Missing labels for the positions in the SUB array fixed.
- Missing update of the speaker drop-down selection for a point source group in the Alignment view fixed.
- Typing error in the Preferences dialog for the "Controls" tab fixed.

12/2019

V10.8.2

MacOS information:

This new ArrayCalc version V10.8.2 requires macOS 10.12 or higher. If you are running macOS versions prior to 10.12, you can use ArrayCalc version 10.6.13 from our heritage software section. See link: https://www.dbaudio.com/global/en/products/software/software-archive/

Features:

- Support of A-Series
- Support of B8-SUB in SUB array

Bug fixes:

- In a mixed operation of HiDPI and normal screens, all icons on normal screen are now displayed in the correct size.
- Inconsistent behavior in changing loudspeaker types in a mixed SUB array fixed.
- Y coordinate in the "Alignment SUB array" diagram always displaying 0 fixed.
- Issue with parts of the balloon being cut off for J-SUB, J-INFRA and SL-SUB fixed.
- Issue with AP symmetry warning for circular planes fixed.

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- Wrong limit for maximum number of cabinets for Q-Series and T-Series fixed.
- Issue with tesselation of a superelliptic plane fixed if one of the minor axis is zero.
- Issue with rotating a multi-selection of arc segments by 180° fixed.
- Issue with a multi-selection of planes fixed if they show different values for the back height although it is the same value.
- In mixed SUB arrays, the field for entering the number of cabinets per position is now correctly enabled.
- The number of characters allowed in the field for the name of an ArrayProcessing slot now corresponds to the number of characters allowed in the remote control of the amplifier (15).
- B8-SUB polarity swap fixed.
- Wrong single pickpoint hole position for KSL with load beam position "front" fixed.
- Issue with Top/End/Side/ISO buttons on the Rigging plot view not resetting the zoom and translation factor to the default value fixed.
- Issue with changing a single array to a paired array resulting in splay angle changes only applying to the left side fixed.
- ArraySight devices that were created in R1 are no longer skipped when loading the project. Instead a dialog opens which enables the user to assign the ArraySight devices to arrays.
- Possible wrong SL-SUB splay angle setting of 2.5° adjusted to the correct value of 2.0.

10/2019

V10.6.13

Bug fixes:
- Wrong profile diagrams fixed.
- Function group setting fixed to apply to both hangs when changing a single array into a paired array.

06/2019

V10.6.12

Bug fixes:
- Wrong pick point values for Q Flying Adapter fixed.
- Wrong number of loudspeakers for an additional amplifier group shown in the Parts list on Summary tab fixed.
- Crash when dragging and dropping cabinets and then reducing the number of cabinets in the source group fixed.
- Part numbers of the xS/xA Series updated.
- Possible change of position of a multiselection of locked venue elements with different shapes fixed.
- Possible change of the type of a locked venue element fixed.
- Automatically generated amplifier channel names no longer use the input number but the cabinet number when the channel is patched to a DS10.
- Issue with the import of source groups regarding non-linked cabinets on the same amplifier channel fixed.
- Maximum number of linked cabinets for Ci80 fixed to 4.
- Missing update of the symmetrical twin of a point source regarding horizontal aiming fixed.

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- When using the tab key to just switch through input fields of a multi-selection with different values, the existing value is no longer taken over for all selected elements.
- Unused 2-way active channel of a 10D set to not supported C3 fixed.
- Issue with the test point not following the plane profile in SUB array alignment diagram fixed.
- Missing curve of J-SUB in diagram of section 5.8 in TI385 added.
- Issue with zooming Venue editor back in again after zooming out to maximum fixed.
- Issue with displaying the data of the wrong cabinet of a point source group fixed when changing source group selection.
- Using "Configure amplifiers" now also recreates the amplifier names.

06/2019

V10.6.9

Features:
- Support of B8-SUB.

Bug fixes:
- Smaller bug fixes and improvements.

04/2019

V10.6.6

Bug fixes:
- Crash when opening a project on MacOS using double click or 'Open with' fixed.
- Incorrect warnings that a file saved in the cloud is used by another application while saving fixed.
- Wrong default value of relative delay of a newly added SUB array fixed.
- Export problems to Dante controller when project names contain an ampersand fixed.

03/2019

V10.6.4

Bug fixes:
- Crash when reading snapshot entries during project load fixed.
- Shrinking speaker type field after changing the speaker type in a point source group fixed.
- **−/+** buttons now properly aligned with input fields of a point source group.
- Possible changes in dock height fixed when switching between Sources, Alignment and 3D plot.

02/2019

V10.6.3

Features:
- Support of upright SL-SUBs in the SUB array.
- Inclinometer laser beam shown for GSL and KSL systems.
- Rigging comment field added.
- Saving of project file improved.

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- New option in Preferences regarding zooming direction using the mouse wheel.
- New option in Preferences regarding diagram rotation.

Notes:

- When installing ArrayCalc V10 on Windows, no desktop shortcut will be created any more.

Bug fixes:

- Locking mechanism added to prevent accidental overwriting when working with R1 & ArrayCalc on the same project at the same time. (Requires R1 V3.6.0 or higher).

02/2019

V10.4.7

Bug fixes:

- Issue with missing update of the compression load limits when changing the value for the compression hoist fixed.
- Issue with wrong loudspeaker type shown in R1 fixed when source groups contain linked cabinets.
- Crash caused when saving a project after reducing the number of cabinets or changing remote IDs for a source group with linked loudspeakers fixed.
- No more unintended password prompt when opening a project created using the Western Arabic numeric system on a computer that does not use this setting.
- Issue caused when reordering cabinets with drag&drop and trying to link the cabinets fixed.
- Level over distance diagram now properly updated when importing or pasting an array.
- Conflicted snapshot fixed when loading a project in R1 that uses C-Series loudspeakers.

01/2019

V10.4.4

Bug fixes:

- KSL data (weight, center of gravity, splay offsets for both Compression- and Tension rigging modes) updated with production average.
- KSL stacked option temporarily disabled as it does not support KSL carts yet.
- Venue: Issue with editing the corner points of quadrangular planes fixed.
- Issues with SUB array print preview and printout missing 3dB per division text fixed.
- Display issues when using various screens with different ratios or different scaling settings fixed.
- Issues fixed when reading .dbac project files from older ArrayCalc versions.

12/2018

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V10.4.3

Bug fixes:

- Crash after splitting an array and copying the data of the left hang to the right hang fixed.
- Crash when opening a .dbac (old project file format) project fixed when the project contains an array without a loudspeaker system selected.
- Issue with disabled splay angle dropdown of the lowest box in a stacked array fixed.
- Issue with loading a project containing a mixed SUB array with activated HCD filter fixed.
- Issue with ArrayProcessing symmetry warning fixed.
- Issue with linking not working after disabling ArrayProcessing fixed.
- Issue with empty temperature dropdown in ArrayProcessing dialog fixed.
- Issue with using Configure amplifiers option while symmetrical linking is activated fixed. Configure amplifiers did not start with channel A while symmetrical linking was activated.
- Wrong relative delay incrementation of a point source group containing linked cabinets fixed.
- Issue with odd round shapes drawn instead of a cuboid fixed when the cuboid was placed outside of the visible area of the Venue view diagram.
- Issue with high curvature values changing the coordinates of P1/P2 of a super elliptic listening plane fixed.
- Missing update of receiver channel names of DS10 on Devices view after running Configure patch option fixed.
- Issue with the selection of a D20 amplifier for an M4 monitor in a Point source group fixed.
- Selection of Mix TOP/SUB output mode for a D12 amplifier no longer needs to be made twice to be activated.

11/2018

V10.4.1

Features:

- Support of KSL loudspeakers.
- Color (green) for GSL and KSL loudspeakers Compression ok sign updated.
- Symmetrical pair linking for point source groups, the SUB array and additional amplifier groups.
- Permitted number of source groups and sources increased: 40 arrays, 30 point source groups with maximum 50 loudspeakers each and 20 additional amplifer groups.
- Start of ArrayCalc sped up by loading only acoustic data of loudspeakers used in the current project.
- Markup for Early reflections areas on Venue view improved.
- Enabling and disabling of ArrayProcessing for a multiselection of arrays.
- Collapse option added in Details views.
- DS100 EnScene and EnSpace license settings can now also be edited in ArrayCalc.

Bug fixes:

- Crash when loading a project containing invalid CAN subnets fixed.

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- Changing the loudspeaker type does no longer cause unsupported linking.
- Unnecessary SPL recalculation when changing pickpoint fixed.
- Issue with storing Alignment test point coordinates fixed.
- Opacity option in color picker of Venue elements removed.
- Issue with Configure amplifiers resulting in different output mode settings for a particular amplifier fixed.
- ArrayCalc no longer overwrites EnScene or EnSpace settings from R1.
- Wrongly added offset of around 40m (130ft) on printouts of Level over distance diagram fixed.
- Project can now be correctly saved after having changed a stacked array from 0 to 1 loudspeaker.
- Flat cuboids can now be properly edited and duplicated.
- Issue with SUB array alignment test point fixed when it "flies" away from the listening plane .
- Issue with test point on Alignment view fixed when it does not snap to set the listener height of the respective listening plane.
- Issue with incorrectly triggered messages about file changes made by another application (e.g. R1) on MacOS fixed.

10/2018

V10.2.5

Bug fixes:

- Crash when printing a 3D plot memory including non-transparent obstacles fixed.
- Issue with grey areas when printing or exporting 3D plot to PNG fixed.
- Issue with invalid SPL calculation resolution on 3D plot diagram and point source group mapping diagram fixed.
- Issue with HFC settings not taken into account for Q-Series in Level over distance diagram and 3D plot diagram fixed.
- Issue with not working deselection for a multiselection of planes fixed.
- Unintentional shift of a multiselection of planes after saving the project fixed.
- Drawing issues with V-, Y- and T-Series cabinets in Array view and 3D plot diagram fixed.

07/2018

V10.2.4

Bug fixes:

- Crash when using drag & drop to move cabinets on Sources view fixed.
- Crash when printing or exporting 3D plot of projects containing venue element groups fixed.
- Permanently disabled ArrayProcessing feature fixed.
- Scale ratio of Venue profile view diagram corrected.
- Possible Remote IDs for D12, D6 and E-PAC outside of CAN range fixed.
- Misaligned column headers when scrolling on Devices view fixed.
- Non-rectangular listening planes no longer permitted as Early reflections areas.
- ArrayProcessing button now shows the progress when preparatory calculations have to be performed.

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- Single pickpoint calculation for GSL arrays corrected.
- Issues with file saving after having loaded a .dbac2 project fixed.
- Issues with linking 12S-SUB fixed.
- Missing HF orientation dropdown menu for single xA-Series arrays fixed.
- Differences between live and memory diagram printouts on 3D plot view fixed.
- Issues with imported venues after saving and reloading projects fixed.
- Issue with setting the height (z) of a multiselection of quadrangular venue elements fixed.

07/2018

V10.2.2

Bug fixes:

- Issue with saving project files containing compressed GSL setups fixed.
- Issue with phase response calculation of SUB array on Alignment view fixed.
- Crash when using the undo function after deleting several planes with DEL key fixed.
- Crash when printing or exporting 3D plot quad view as PNG fixed.
- Color selection dialog now also correctly displays the currently selected color.
- Wrong channel naming of linked cabinets fixed.
- Issue with cabinets not selected after using the respective splay angle dropdown menus in the cabinets table on Mac OS fixed.
- Configure amplifiers option now working correctly for mixed and linked SUB array.
- Issue with linked boxes of SUB array in .dbpr files fixed.
- Issue with opening .dbac files containing obstacles fixed.
- Issue with transparency of obstacles in y direction fixed.
- When selecting elements individually in All elements list of Venue view, the multiselection buttons are now disabled.

06/2018

V10.2.0

Features:

- Heritage loudspeakers now available in point source groups.
- All elements list on Venue view enhanced with additional functionality including drag-and-drop, multiselection using the shift key and display of the basic shape of an element.
- Separate comments section on Venue view added.
- Profile diagram for test point selection added on Alignment view.
- Using the mousewheel to change dropdown values can now be disabled in Preferences.
- Copying an array with ArrayProcessing enabled now also copies the the ArrayProcessing settings.
- Automatic patching option for DS100 devices added.

Bug fixes:

- Issue with triangular planes mirrored upside down fixed.

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- Missing alignment of splay angles of left and right hangs of a duplicated paired array fixed.

06/2018

V10.0.14

Bug fixes:

- Crash when selecting a point source group on Devices view fixed.
- Delay values can no longer be set to less than 0.3 ms or to negative values.
- Backward compatibility with .dbac files fixed.

05/2018

V10.0.13

Bug fixes:

- Issue with level incremented twice for linked loudspeakers fixed.
- Issue with P0 of arc segment in Venue editor no longer movable fixed.
- Issue with E-PACs in Additional amplifier groups and CPL fixed.
- Saving 3D plot to memory workflow optimized.
- 3D plot resolution value no longer missing after loading .dbac2 project files.
- Audio networking devices are now properly deleted after disabling the Audio networking feature.
- Issue with not correctly restored total delay of linked loudspeakers in a SUB array fixed.
- Issue with moving locked planes when using relative editing fixed.
- Issue with wrong positions of joined venue elements after importing a venue fixed.
- Issue with Structure type venue elements not always being transparent fixed.
- Missing update of frequency list in the simulated signal section of point source groups corrected when switching between these groups .

05/2018

V10.0.12

Bug fixes:

- Crash fixed when saving a project after disabling the ArraySight feature.
- Issue fixed where ArraySight devices are not removed from a project after deleting the relevant array.
- Issue with unreported duplicate RemoteIDs fixed when the same RemoteID is used for both an ArraySight device and an amplifier.
- Issue with Y7P/Y10P listed as V7P/V10P in Parts list fixed.
- Issue with level increased twice for linked loudspeakers fixed.
- Missing amplifier RemoteID in ArrayCalc viewer file (.dbev) fixed.
- Issue with disabled HFC switch fixed when creating a new project with air absorption enabled by default.
- Issues caused by exported Dante controller preset files named using an umlaut fixed.
- Issue caused by duplicating a point source group with CUT enabled fixed.

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- Issue with the absolute value editing fields fixed when changing the Lock option while multiple planes are selected.

04/2018

V10.0.11

Bug fixes:

- Crash fixed when reducing the number of cabinets of an array containing linked cabinets or when transforming a paired array containing linked cabinets into a single array.
- Crash fixed when enabling/disabling the ArraySight option in a project that does not contain any source group.
- Missing update of amplifier names after renaming a source group fixed.
- Missing update of input mode when unlinking channels fixed.
- Missing update of input source when unlinking the cabinets of an array fixed.

04/2018

X10.0.10 Beta

Bug fixes:

- Crash when clicking in the name field of a Function group fixed.
- Crash when selecting a DS100 without selecting a DS10 first fixed.
- Crash when reducing the number of cabinets per position in SUB array fixed.
- Crash when changing SUB systems from linked B4-SUB to V-SUB fixed.
- Issue with loss of patch of even Dante channels after saving and reloading fixed.

03/2018

X10.0.9 Beta

Bug fixes:

- Crash when saving project containing duplicated point source groups with linked cabinets fixed.
- Crash when performing "Configure amplifiers" for certain projects fixed.
- Issue caused by loading a project after importing a source group containing linked loudspeakers fixed.
- Issue with case sensitive renaming of DS100 channels fixed.
- Issues with the availability of combined input sources (e.g. 1+2) for point source groups fixed.
- Issue with export to ArrayCalc viewer file fixed.

02/2018

X10.0.6 Beta

Features:

- Air absorption calculation/compensation improved by wider and finer humidity options.

Bug fixes:

- Crash fixed when loading projects containing mixed SUB arrays with linked cabinets and in "hop" mode.

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- Crash in a Point source group fixed caused by a J-SUB with INFRA switch enabled which is changed to E-Series.
- Issue with copied or imported SUB arrays fixed.
- Missing keyboard interaction option for buttons on Devices view / Cabinets table added.
- Invalid values in snapshots of Additional amplifier groups fixed.
- Wrong mute values in snapshots of Additional amplifier groups fixed.
- Missing description of simulated signal on Memory slots of 3D plot fixed.
- Issue with linked inputs during the patch validation fixed.
- Issue with levels of linked cabinets in stacked arrays after project reload fixed.
- Already patched DS10 or DS100 assignment no longer lost when patching an output channel.
- Unexpected behavior of AutoSplay in connection with certain array / Venue settings fixed.
- "Name" column of the Venue objects table widened. Venue: Missing Listener height input field for triangular shapes added.

01/2018

X10.0.4 Beta

Bug fixes:
- Crash when increasing the number of positions of a SUB array with more than one cabinet per position fixed.
- ArrayCalc Help: Wrong screenshot for Point Source signal selection and SPL summation method fixed.
- Delay and level of linked cabinets reset when reading project fixed.
- Tab key navigation inside tables fixed.

12/2017

X10.0.3 Beta

Bug fixes:
- Crash when increasing the number of point sources fixed.
- Crash fixed when saving a project where some sources assigned to audio networking have been deleted.
- Issue with loading input source settings of D6/D12 from project file fixed.
- Issue with reading the rotation of linked point sources from project file fixed.
- Issue with saving a project containing large snapshots/system settings fixed.
- Issue with duplicate Remote IDs fixed.
- Missing confirmation dialog added when deleting snapshots.

12/2017

X10.0.1 Beta

Features:
- ArrayCalc V10 and R1 V3 include support for the new integrated project file format (*.dbpr). This new project file format can be opened and saved in both ArrayCalc and R1.
  Note: Please note ArrayCalc V10 can open .dbac2 project files but not save them. Please check the Software Newsletter 12/2017 for details regarding the recommended workflow.

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- Support of d&b Soundscape systems, including DS100 Signal Engine, En-Scene and En-Space software options.
- New triangular Venue element shape, improvements on Arc segment shape which can now also be elliptic.
- New Venue element types. Venue element types can now be changed no matter which shape.
- Join/Split of Venue elements.
- Multiselection and drag&drop of cabinets.
- Linking and amplifier selection already available on Source view.
- Point source groups now support SUBs as well.
- SUB array can be deleted from projects where it is not used.
- Pan and zoom for Alignment top view diagram.
- Overall dimensions of an array displayed below the Required space diagram on Rigging plot view.
- Support of DS10 and DS100, including export of a Dante Controller preset file.

For a detailed description of the new features, please also refer to the Software Newsletter 12/2017.

12/2017

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