

d&b ArrayCalc V12 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:

Win10 or higher.
Vulkan support required.
MS "Media Feature Pack" required.

macOS (Intel):

12.0 or higher (Metal support required).

macOS (M*):

12.0 or higher (Metal support required).

Notes:

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](#).

For Windows N OS, the MS "Media Feature Pack" needs to be installed manually.

With the Windows version starting from ArrayCalc V12.0.3, we have updated the graphics backend from OpenGL to Vulkan, which provides improved performance, better multi-threading, and more efficient use of modern GPUs. Please be aware that some older Windows devices may not support Vulkan. In such cases, upgrading to newer hardware may be required. If an OpenGL version of ArrayCalc is required, use ArrayCalc V11.8.1, which can be downloaded from the [Software archive](#).

Project file compatibility

To check whether your project will open in ArrayCalc, please refer to the project file compatibility table at the end of this document.

V12.8.3

Bug fixes:

- Error loading projects due to invalid connections between two inputs fixed.
- ArrayProcessing: Incorrect paired array symmetry warnings for mirrored Arc segments fixed.
- A-Series: All supported splay angles of stacked horizontal arrays can now be modified correctly.
- Patch plan:
 - Connecting an array to an amplifier no longer patches duplicated arrays unintentionally.
 - Right-side array items are now removed correctly when deleting arrays added using "Add Multiple Sources".
 - Milan Dynamic Mappings section now remains correctly positioned when changing amplifier types.
- DS10 devices no longer receive a Remote ID when duplicated.
- Splay angles of SUBs in mixed CCL / XSLi / KSLi setups can no longer be changed incorrectly.
- Rigging point text labels now scale correctly on high-DPI displays.
- Rigging point profile views now update correctly when positions are changed.

- Arrays snapped to a rigging point no longer inherit the rigging point height incorrectly.
- SL-SUB pick point positions are now restored correctly when loading a project.
- Deleting unused amplifiers from the Configure amps dialog now correctly removes amplifiers located in racks.
- Changing the DS100M assignment in the Cabinets patching table no longer results in invalid dynamic mappings.

07/2026

V12.8.2

Bug fixes:

- Removing unused devices no longer removes ArraySights.

05/2026

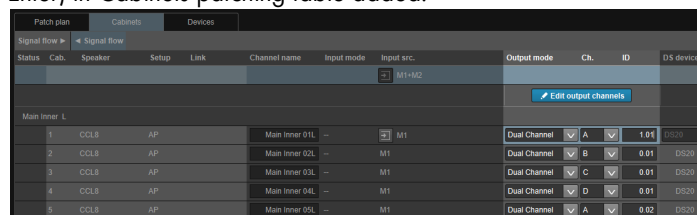
V12.8.1

What's new?

- Check out this short [update video](#) on what is new in this version.

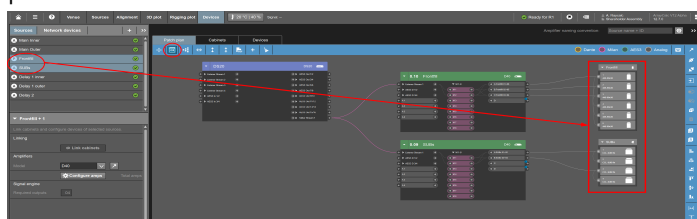
Features:

- Stability and devices workflow improvements:
 - Remote ID edit mode and auto increment (using CTRL/CMD + Enter) in Cabinets patching table added.

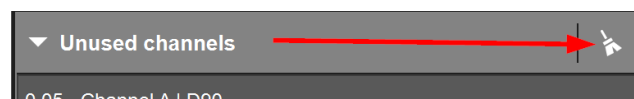


Status	Cab.	Speaker	Setup	Link	Channel name	Input mode	Input src.	Output mode	Ch.	ID	DS device
Main Inner L											
1	CCL8	AP			Main Inner 01L	--	M1	Dual Channel	A	1.01	DS20
2	CCL8	AP			Main Inner 02L	--	M1	Dual Channel	B	0.01	DS20
3	CCL8	AP			Main Inner 03L	--	M1	Dual Channel	C	0.01	DS20
4	CCL8	AP			Main Inner 04L	--	M1	Dual Channel	D	0.01	DS20
5	CCL8	AP			Main Inner 05L	--	M1	Dual Channel	A	0.02	DS20

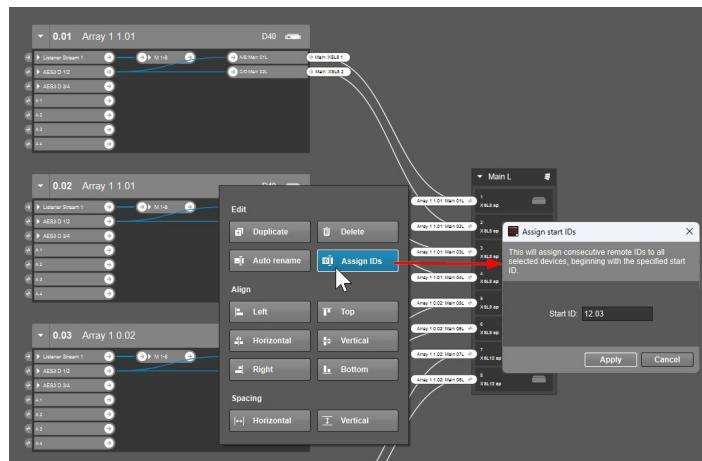
- Patch plan now provides a Focus mode which only shows items patched to the selected source.



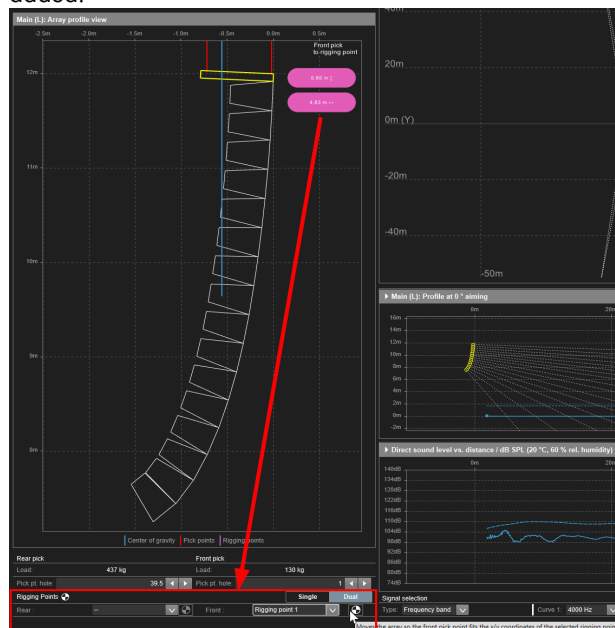
- New option added in Devices table, Patch plan or Unused channels table to delete all unused devices of a project.



- Patch plan: Increased legibility of item headers when zoomed out.
- Patch plan: Smart ID assignment for multi-selection of amplifiers.



- Venue Rigging point element and Snap arrays to rigging point feature added:



- Support of DS110 added.
- Support of legacy loudspeakers (E0, E3, E9, C4-SUB, C4-TOP, C6, C7-SUB, C7-TOP, Ci45, Ci60, Ci80, Ci90) added to D25 and 25D.

Bug fixes:

- Crash while closing application on Mac OS fixed.
- Crash during EASE export for arrays with stacked CCL-SUBs fixed.
- Empty SUB array SPL mapping diagram for large venues fixed.
- Patching a DS10 device in Cabinets table no longer clears existing patches of other cabinets.
- Splitting a paired A-Series horizontal array no longer causes unexpected splay angles and non-symmetric SPL mapping diagrams for the resulting single arrays.
- Missing colors in SUB array SPL mapping for large venues fixed.
- Configure amps:
 - “Use remaining channels” now correctly works for paired arrays.
 - D12 amplifiers are now correctly assigned to 2-way speakers (F-Series, J-Series and Monitors).

- Patch plan:
 - Creating a duplicate patch by connecting two loudspeakers to the same amplifier channel in the Patch plan is no longer possible.
 - Draft patches between matrix devices and loudspeakers without amplifiers no longer cause project issues.
 - SUB array items are no longer messed up after switching layouts.
 - Linking cabinets freely using the mouse is possible again.
 - Using "+Amplifier" on duplicated arrays now correctly patches them to the newly created amplifiers.
 - Wrong tool tip texts of vertical / horizontal spacing buttons fixed.
 - Patch lines are no longer drawn on top of the items.
- SUB array stacks with more than one cabinet per position can no longer be rotated through 90°.
- Importing a dbev venue file with joined elements no longer replaces the current venue even if "Add" was selected.

05/2026

V12.6.6

Important note:

ArrayCalc version 12.6.6 no longer supports **macOS 11** (Big Sur) and earlier versions. Please stay on version 12.6.5 or upgrade macOS to continue using newer releases.

Bug fixes:

- Saving a project after loading a 3D plot memory slot no longer triggers a 'failed to save project'.
- Patch plan: Missing patch lines and damaged "+amplifier" function for paired arrays fixed.
- Huge performance improvements when working with large projects with listening planes transparency turned off.
- Exported Dante preset file now works with the latest Dante controller application (v4.17.1.1).
- Disabled cabinet rows on Sources view after loading a 3D plot memory slot fixed.
- Patch plan: When duplicating signal engine devices, input and output channel names are now copied to the newly added device.
- Export to SDE file: Cabinet drawings and mute states are now saved correctly.
- When increasing the number of SUB array positions, ArrayCalc no longer assigns wrong speaker setups to the individual cabinets.
- Patch plan: Changing the amplifier type no longer keeps unsupported speakers connected.
- 'All Sources' diagram on Alignment view can be zoomed again.

Known issues:

- Export to Milan Manager temporarily not working.

04/2026

V12.6.5

Bug fixes:

- Duplicating or pairing a source no longer triggers a 'failed to save

project' error when saving.

- Connecting two loudspeakers to the same amplifier channel in Patch plan is no longer possible.
- ArrayCalc installation issues on Japanese Windows systems fixed.
- In-app update not detecting new versions in some cases fixed.

Known issues:

- Export to Milan Manager temporarily not working.

03/2026

V12.6.4

Note:

In ArrayCalc V12.6.3, we introduced improved balloon data for GSL8/12, KSL8/12, XSL8/12 and CCL8/12. Prediction results now reflect the low frequency directivity of these systems more accurately.

Bug fixes:

- ArrayCalc no longer crashes when changing the input source for a networked loudspeaker in the Patching table.
- ArrayCalc no longer crashes when deleting multiple system settings in one go.
- Crash when reducing the number of cabinets in a Point source group fixed.
- Crash when changing the speaker type for a multi-selection of cabinets fixed.
- Crash when loading certain projects fixed.
- Crash when changing arrays from Stacked to Flown fixed.
- Error when connecting internal Milan patches leading to project save failures fixed.
- A venue element's Z-value of "PO" no longer switches back to 0 after entering a value.
- Incorrect balloon data of wide dispersion U-Series loudspeakers fixed.
- Crash when duplicating a source with networked U-Series speakers fixed.
- Drag on 3D plot with right mouse button tilts correctly again.
- Check for updates shows a message again even if no new version is available.
- When changing speaker properties, the point source group Profile view correctly updates again.
- Crash when undoing a mirror operation on joined venue elements fixed.
- Crash when printing or exporting 3D plot memory fixed.
- CUT filter having no effect on J-Series arrays fixed.
- Incorrect Milan patch when using patching table fixed.
- Project with imported networked point sources can now be saved correctly.
- Duplicating B10, B10N and B12-SUB speakers in SUB array system selection fixed.
- B12-SUB cabinets are no longer colored in red in the diagrams.
- Crash when scrolling through the speaker menu of a mixed SUB array fixed.

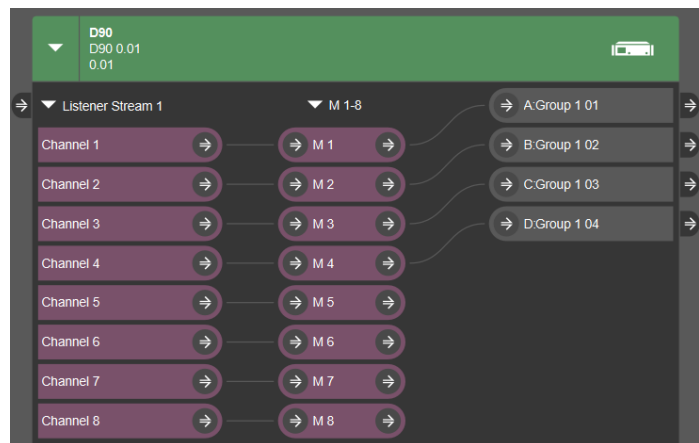
Known issues:

- Export to Milan Manager temporarily not working.

02/2026

V12.6.3**Features:**

- Support of U-Series loudspeakers added: U3, U5, U7, U3N, U5N, U7N.
- Support of B10-SUB/B10N-SUB loudspeakers added.
- Support of B12-SUB loudspeakers added.
- Support of 42S loudspeakers added.
- Support of DN2 PoE++ Switch added.
- Support of 5DM amplifiers added.
- Patch plan: Sources can no longer be deleted on Patch plan in order to avoid deleting them accidentally.
- Milan Dynamic mapping
 - You can now define dynamic mappings on Patch plan Milan items:

**Known issues:**

- Export to Milan Manager temporarily not working.
- Patching Milan DS devices in the Cabinets table on the Devices view will lead to incorrect results. Please use the Patch plan for this task.

Bug fixes:

- Patch plan view no longer resets unexpectedly after patching an item.
- When using Configure amps with linked cabinets, ArrayCalc no longer generates amplifiers with unused channels.
- Empty input source menu on Patch plan fixed.

01/2026

V12.4.1**Features:**

- Support of CCLi loudspeakers and rigging hardware added.
- Support of DS22 Audio Network Bridge added.

Bug fixes:

- Crash when switching to 3D plot in projects with a very large number of speakers and venue elements fixed.
- ArrayCalc no longer infinitely loops a progress bar when using Configure amps while the Devices table is selected.
- Left- and right-side Patch plan items of a paired array can now be selected individually.
- Missing default Function groups when loading a new project fixed.
- Racks no longer lose their content when switching to custom layout.
- Patch plan racks reserving a remote ID 0.01, which could lead to duplicate remote IDs, fixed.
- Patch plan: Duplicated devices now receive a new unused remote ID to avoid duplicate remote ID errors.
- Patch plan: Changes to custom layout now restored also when using the Equally spacing feature.
- DXF exports now scaling correctly when imported into a CAD program.

11/2025

V12.2.4

Bug fixes:

- Wrong SUB array positions after loading a project fixed.

09/2025

V12.2.3

Features:

- Improved export of Milan patch to Milan Manager file.

Bug fixes:

- Crash when deleting an audio network device fixed.
- Crash when saving calculation results into a memory slot on 3D plot fixed.
- Error reading certain projects due to failure in the devices data fixed.
- Input fields for the configuration of start ID, input mode and input source on Devices view correctly appear again.
- Deletion of unused amplifiers works correctly again from the configure amps dialog.
- Handling of advanced CPL values fixed.
- Mute state of sources works again independent of amplifiers being patched.
- Flipped polar diagram fixed.
- Resolved issue with loading a project containing input linked amplifiers.
- Problems with racks after reading a project fixed.
- Performance issues with automatic layout on Patch plan resolved.
- Issues with the GR indicator LED for paired arrays fixed.
- CCL-SUBs listed twice in the Parts list fixed.
- A DS10 cannot be added now when the feature Audio networking is not enabled.

09/2025

V12.2.2

Bug fixes:

- Crash when deleting patched amplifiers on Patch plan fixed.
- Crash when reducing the number of SUB array positions fixed.
- Crash when opening ArrayCalc Help fixed.
- Crash when splitting array fixed.
- Mix TOP/SUB output mode can be set in patching table again.
- CPL changes not considered in SPL calculations on Mac OS fixed.
- Empty Dante patches when using Patch plan input linking for arrays fixed.
- Redundancy DS100/DS100M device now uses the same I/O size as the parent device.
- CCL data update for driver adaptation to long-term production average.

07/2025

V12.2.1

Bug fixes:

- Crash when opening ArrayProcessing dialog fixed.

06/2025

V12.2.0

Features:

- Support of D25/25D amplifiers added.
- Export of Milan patch to Milan Manager file.
- Patch plan custom view remembers the last object positions when toggling between layouts.

Bug fixes:

- Loading of wav and mp3 files for HeadroomCalc working again.
- DS100 inputs 65 to 128 no longer reset when loading project.

06/2025

V12.0.5

Bug fixes:

- ArrayCalc not running on Mac OS 11 and 12 fixed.
- Robustness of Vulkan graphics device detection improved.
- DS100M no longer shows 128 Milan inputs on Patch plan.
- Parts list now correctly shows content for sources with the same name.

04/2025

V12.0.4

Bug fixes:

- Issue with ArrayCalc not starting after installation in certain Windows environments fixed.
- Crash when switching from passive to active speaker system fixed.
- Crash when increasing number of flown SL-SUBs fixed.

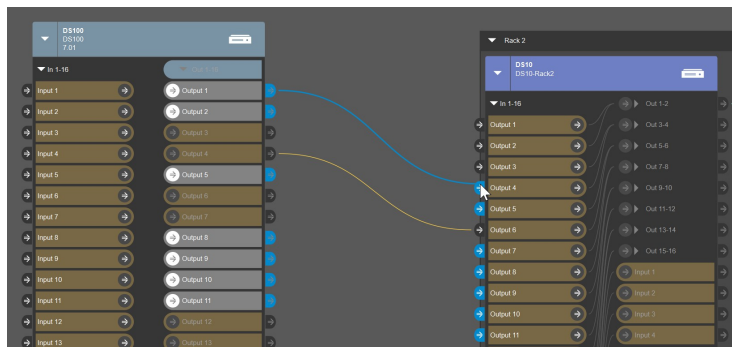
- ArrayCalc no longer freezes at 91% when loading projects that contain HeadroomCalc audio snippet data.
- Missing active GR LEDs of sources on HeadroomCalc view fixed.
- ArrayCalc no longer crashes on Mac OS when deleting a DS10 from the network devices table.
- Crash when exporting 3D plot raw data and statistics fixed.
- Crash when disabling audio networking feature on Mac OS fixed.
- ArrayCalc no longer crashes when showing print preview of amplifier configurations.
- Crash when closing ArrayCalc on Mac OS fixed.
- Configure amps dialog on Devices view improved.
- Silent/quiet mode installation of ArrayCalc on IT managed Windows PCs fixed.
- Warning message shown when Vulkan graphics engine is not working properly. When you encounter this message, please contact support@dbaudio.com.

04/2025

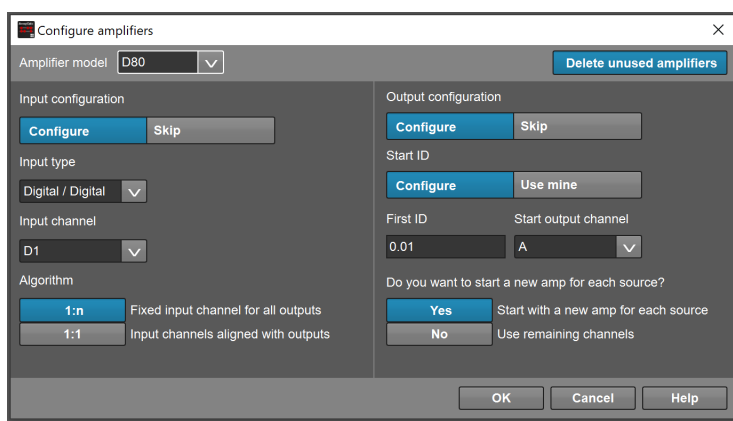
V12.0.3

Features:

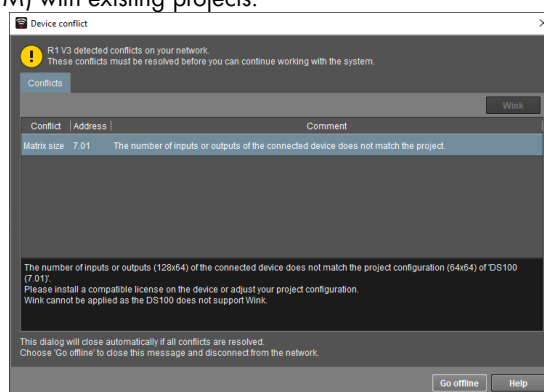
- Graphical interactive Patch plan on Devices view:



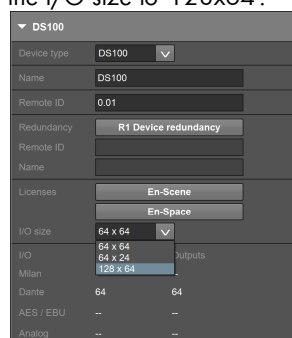
- Interactive visual patching of devices and sources.
- Highlighting of a patched signal path from source to sink.
- Multi-selection and automatic algorithms to quickly patch a project.
- Visualization of patching errors and not yet used amplifier channels.
- PDF export of the Patch plan overview or details of all devices.
- Example projects updated to include Patch plan designs.
- Support of signal engine inputs added.
- Soundscape workflow without amplifiers enabled:
 - Projects with direct draft patches to cabinets are “Ready for R1” and can be used to operate a DS100/DS100M without the need for dummy amplifiers in R1.
- New amplifier workflow:
 - To enable the workflow of adding racks and amplifiers before connecting them to cabinets, ArrayCalc no longer generates amplifiers automatically when new cabinets are added. Instead, you can add amplifiers in the Patch plan or with the new Configure amplifiers dialog.
- Configure amplifiers as dialog providing several options:



- Support of CL-Series added.
- Support of Milan in D90 / D40 / 40D amplifiers added.
- Support of variable DS100(M) input and output counts added.
 - As from DS100(M) firmware version 3.0.0 or higher, the input count of existing devices will be extended to 128 inputs at no extra cost.
 - **Note:**
DS100(M) firmware version 3.0.0 or higher is required for this feature. Although the DS100(M) with firmware 3.0.0 or higher will show up in older versions of R1, initialization of the device will fail without notice. The failing initialization will result in audible issues.
 - After updating the DS100(M) to firmware version 3.0.0 or higher, a conflict regarding the number of inputs will pop up when using the DS100(M) with existing projects.



- To overcome this error, go offline in R1, open the project in ArrayCalc V12.0.0 or higher, navigate to the Devices tab, select the DS100 and set the I/O size to '128x64'.



- After selecting the new I/O size, save the project and open it again in R1 V3.40.0 or higher.
- Support of up to 32 Function groups in one project added.
 - Here, the same constraints as described in the note above apply.

- Support of J-Series TOPs (J8 / J12) added to 40D amplifier.
- Improved user experience in 3D diagrams.
 - The zooming and rotation functions now allow more precise navigation.
 - Measurement grid now scales with zoom level.
 - Track pad gestures for panning and zooming.
- Improved calculation method for estimating the broadband gain reduction threshold.
 - Please note that depending on the selected system, its configuration, and the selected broadband signal, this can cause the GR LEDs to light up at marginally different input levels when compared to previous ArrayCalc versions.
- Support of System Design Export (SDE)
 - The designed sound system as it is including all current settings can be exported according to the SDE-standard to an SDE-file, which then can be used in noise prediction software like SoundPLAN. The SDE-standard provides a unified, free-to-use file format and calculation method, enabling accurate and easy noise prediction for outdoor entertainment events with sound systems.

Bug fixes:

- XSL Pullback frame no longer missing in DXF export.
- "Frame height front" can now also be set below zero in the Rigging plot view.
- IEC60268-16 spectrum not triggering the GR LED fixed.
- Wrong calculation of SL-SUB single pick position fixed.

03/2025

Project file compatibility

The following table lists the supported software versions required to maintain project file compatibility.

Created in...	Open with...			
ArrayCalc	ArrayCalc	ArrayCalc Viewer	R1	NoizCalc
12.8.x	12.8.x	1.22.x 1.20.x	4.46.x	4.4 4.2
12.6.x	12.6.x		3.44.x	
12.4.x	12.4.x		3.42.x	
12.2.x	12.2.x		3.40.x	
12.0.x	12.0.x			
11.8.x	11.8.x		3.38.x	4.0
11.6.x	11.6.x		3.36.x	
11.4.x	11.4.x		3.34.x	
11.2.x	11.2.x		3.32.x	
11.0.x	11.0.x		3.30.x	3.2
10.26.x	10.26.x	1.18.x	3.26.x	3.0 2.8
10.24.x	10.24.x			
10.22.x	10.22.x		3.22.x	

Note:

In general, project files are upward compatible, i.e. later versions of an application open project files created with previous versions of the same application.