LAC-3.3.0

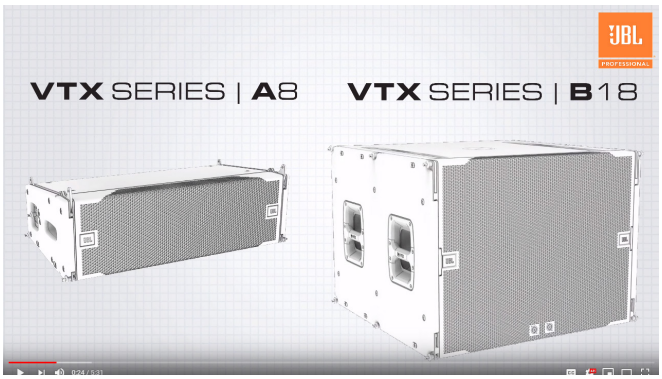
NEW FEATURES AND IMPROVEMENTS:

- Added accessory support for:
  - VTX A8 Base Plate and VTX A8 Mini Frame.
  - Added pull-back support for the VTX B18 using the VTX A8 SB suspension bar.
  - Improved VTX V20 DF (Down Fill) support. The V20-DF is now presented in the speaker list.
- Added support for ArrayLink version 1.1.0
- Improvements in Ground Stack Array mode:
  - Ground stack accessories and frames (like the VTX A12 VT GND or VTX A8 BP) are now presented in Mapping mode to allow for more accurate array placement.
  - Speakers in ground stacked mode are now numbered in reverse order (cabinet 1 being at the bottom) and additional cabinets are added to the top without changing the angles of the existing cabinets.
  - Added auto-calculate angles feature for ground stacked arrays.
  - Ground stacked accessories are now presented in the speaker list view.
- New Zoom functionality in Venue and Mapping modes:
  - Control + left-click drag to zoom in any section of the venue or mapping pages.
  - Double left-click anywhere on the venue to zoom back out to 100%.
- Copy/paste venue geometry:
  - The venue geometry (planes) can be copied from one instance of LAC to another. Right-click anywhere in the venue page and select “Copy Venue Geometry”.
- EASE GLL Export functionality:
  - After an array design has been completed, the array data can be exported and used in the VTX EASE GLLs. Array information like number of cabinets, angles, gains and cabinet types are transfered over.
  - To export an EASE GLL configuration file, go to the “Menu” and then select “Export to EASE GLL”. Save the file on your local drive and then open the configuration file in the EASE GLL (File -> Open Configuration).
  - Note that the latest EASE GLL files should be used for all VTX systems. The latest GLLs files can be downloaded from the JBL Pro website.
- PDF Export:
  - The Print and Print Preview functionality has been replaced with a new PDF export. Use Control + P or Menu -> PDF Export to export a configuration to PDF. The PDF file can be saved locally or used for printing.
- SPL Coverage Shadowing:
  - Planes can now visually block SPL to better illustrate coverage shadow zones. Shadowing is available is SPL Mapping and SPL attenuation modes.
  - Coverage Shadowing can be switched ON/OFF from the application settings.
- Venue Page improvements:
  - The Tab key can be used to create new planes. When mouse focus is on the last coordinate of a plane, use the tab key to create a new plane.
  - New planes used the same coordinates as the plane before for the front X/Y position.

BUG FIXES:

- Improved single, dual-point and pull-pack mechanical calculations for better safety factor calculations.
- Fixed the -1dB Array Size Compensation filter position.
- Circuit grouping improvements. When speakers are grouped, only one speaker selection drop-down is shown.
- Addressed dependencies in speaker and accessory weights (A12, A12W, A12-AF, A8, A8-AF).

VIDEO TUTORIALS :



LAC-3.2.0

NEW FEATURES:

- Added support for:
  - VTX A8, VTX B18, VTX A8 AF, VTX A8 SB
- Added support for ArrayLink version 1.0.3
- Added System Selection drop-down menu in mapping mode.
  - The new system selection drop-down menu allows for easier system selection
  - The “Speaker Type” drop-down menu shows speaker type options based on the speaker system selection
  - Speaker type selection logic has been updated
- Extended the LAC calculation frequency up to 16kHz
- Added listening height adjustment in the Venue page
  - When planes are set to “Listening Areas” a “Listening Height” parameter is available
  - Listening height can be set to standing or sitting (height adjustable via the settings panel)
  - A doted line is drawn above the planes to represent the listening height

BUG FIXES/IMPROVEMENTS:

- Rearranged weight gages in Configuration page.
- Several improvements in Ground Stack Array mode.
- Cardioid subwoofers are now displayed with a fill color for differentiation
- Suspension Details drawing auto-scales to best fit the designed array.
- Removed extra Gain and LACP buttons from grouped circuits.
- Several UI performance improvements. Opening files in now much faster.
- Addressed several minor issues related to the VTX A12 Suspension Bar.
- Added the Suspension Bar to the DXF export.

LAC-III UPDATE VIDEO TUTORIAL :

- https://youtu.be/Lbvuomrao8g

LAC-3.1.4

BUG FIXES

- Improved acoustic calculations for VTX A12 and VTX A12W.
- Improved mechanical calculations for single-point VTX A12 and VTX A12W arrays.
- Addressed an issue related to the ArrayLink QR code for VTX V20 arrays.
- UI performance improvements.

LAC-3.1.3

NEW FEATURES:

- Calculation performance improvements:
  - The LAC-3 calculations engine is now multi-threaded and can take full advantage of multi-core CPUs.
  - Depending on the computer's CPU type, up to a 10x performance improvement can be observed.

BUG FIXES

- Addressed an issue related to the front/rear weight calculations. In some cases the front and rear weights were reversed.
- Addresses a DXF export issue related to the VTX A12W
- Virtualization improvements - LAC-3 can now run in a virtual machine.
- Addressed an issue related to the VTX V20 angles when used in compression mode.

LAC-3.1.1 / 3.1.2

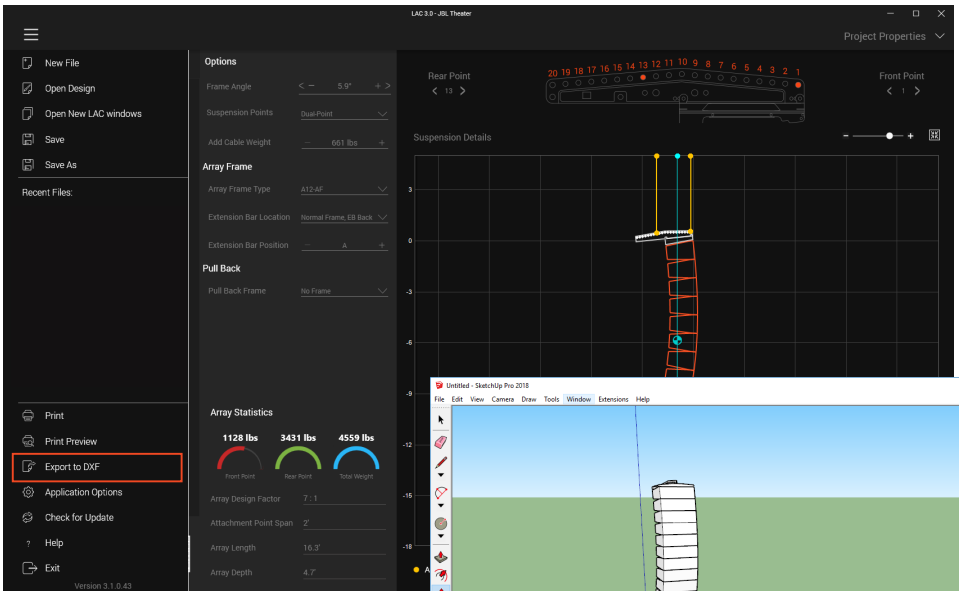
BUG FIXES

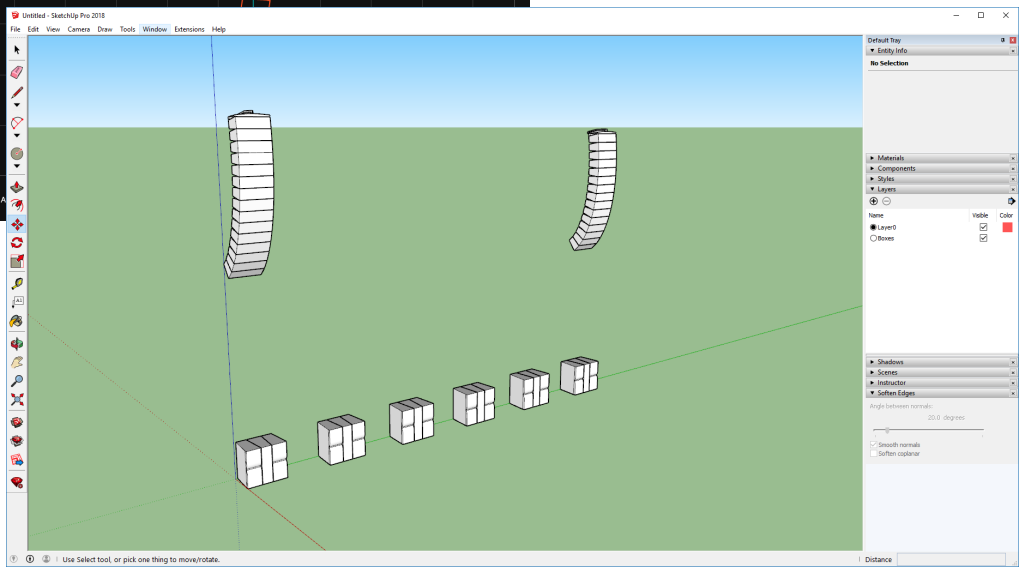
- Addressed an issue related to the front/rear weight calculations. In some cases the front and rear weights were reversed.
- Addressed a formatting issue related to Windows language settings and the DXF export. In some case the DXF file was not formatted correctly.
- Corrected VTX S25 DXF file (the VTX S25 size was incorrect)
- Changed LAC-III to be checking for new updates automatically
- Addressed an issue related to the frequency probes. In some cases the position of the frequency probes could not be changed.
- Addressed an issue where the "Print" command would delete the project name.
- Added a subwoofer spacing selection in the Application Options menu. Subwoofer spacing can be defined as "Center to Cente1r" or "Edge to Edge".

LAC-3.1.0

NEW FEATURES:

- Support for the new VTX A12W:
  - Standalone (A12W) or combination arrays (A12 + A12W) can be created in LAC3.1.0.
  - A12W arrays can be imported into Performance Manager 2.6.
- Added ground stack support for VTX A12 systems using the new VTX A12 VT GND accessory.
- Added VTX V20 BA (Bi-Amp) option in the speaker type drop-down menu:
  - VTX V20 BA arrays created in LAC3.1.0 can be imported into Performance Manager 2.6. Arrays are imported into Performance Manager in Bi-Amp mode and with the correct circuit wiring.
- Compatibility support for Performance Manager Version 2.6 and ArrayLink 1.0.2.
- Added Auto Update function
- Added a new "Export to DXF function:
  - Arrays created in LAC3.1.0 can be exported to a 3D DXF file
  - The DXF files include speakers and array frames
  - The DXF file units are based on the *Default Units* selection in the *Application Options* menu (Metric Vs Imperial)
  - Support for: Suspended Arrays, Suspended Subwoofer Arrays and Ground Subwoofer Arrays
  - DXF Files created in LAC3.1.0, can be imported to any software that supports 3D DXF import like AutoCAD or SketchUp





BUG FIXES

- Fixed several issues related to Windows localization settings that prevented ArrayLink from reading some arrays
- Addressed an issue causing the software to crash at first start
- Addressed an issue where LACP EQ filters would not show as active when first loading a file

LAC-3.0.4

BUG FIXES

- Addressed an issue related to the Windows localization settings causing an error when the software starts
- Addressed an issue related to Air Temperature settings
- Addressed an issue related to the LACP filters not been active when opening a file
- Addressed an issue related to the Isobar line options in the settings panel
- Addressed an issue related to the mapping frequency ON/OFF switches when changing mapping modes

LAC-3.0.3

BUG FIXES

- Addressed an issue related to the generation of Array Statistics values
- Addressed an issue related to subwoofer spacing and switching from metric to imperial and back
- Improved color mapping (now in 6dB steps) in Subwoofer Mode for better coverage representation

LAC-3.0.2

NEW FEATURES

- Added support for the VTX A12 Suspension Bar to be used as an array frame for VTX A12
- Added support for JBL's ArrayLink mobile application
- Improved integration with Performance Manager Version 2.5

BUG FIXES

- Several visual UI improvements
- Performance optimizations
- UI scaling issues on HiDPI displays
- Improved subwoofer mode

LAC-3 BETA 2

NEW FEATURES

- Added support for the VTX A12 Suspension Bar for pullback applications

BUG FIXES

- Addressed several UI scaling issues on HiDPI displays
- Addressed several issues related to switching units (Imperial Vs Metric)
- Addressed a subwoofer spacing issue related to ground stack subwoofer arrays
- Added dB and Frequency scales to the measurement graph
- Average trace improvements in measurement graph window
- Addressed “Min Pull Back Load” display issue for compression style system
- The position of the frequency response probes can now be changed
- The main LAC-III windows can be used even when the LACP panel is open
- Compatibility improvements with Performance Manager version 2.4.1
- Several visual UI improvements