d&b R1 V3 Release notes

The R1 Remote control software Version 3 is designed to operate d&b systems remotely using the d&b Remote network based on OCA (AES70) via Ethernet technologies (D80, D40, D20, 40D, 30D, 10D, 5D, DN1, DS100 and ArraySight) and CAN-Bus (D80, D20, 30D, 10D, D12, D6, E-PAC with Display). A detailed description of the d&b Remote network and CAN-Bus is given in the TI 312 d&b Remote network. An introduction to Ethernet networks is given in the TI 310 Ethernet networking.

Recommended OS

Windows:	Win 10 or higher
macOS (Intel):	10.14 or higher
macOS (M1/M2):	11.0 or higher

Note: Due to changes made by Apple, macOS 10.15 (Catalina) is the last version that supports R60 as remote interface and allows D6 firmware updates using direct USB connection.

Project file compatibility

To check whether your project will open in R1, please refer to the project file compatibility table at the end of this document.

Installation hints

- If your firewall application blocks “mDNSResponder.exe”, please allow access.

3.38.1

Note

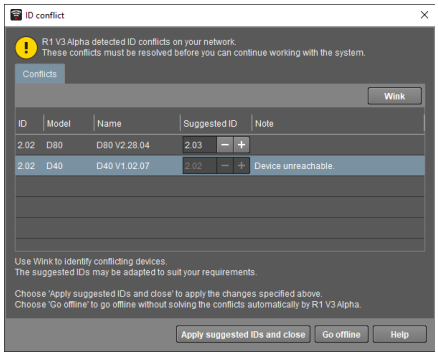
This version of R1 supports 5D firmware version V5.0.5 or higher.
A 5D amplifier that uses an outdated firmware and is part of the project will trigger an error and block R1.
Updating the 5D firmware using the R1 Service view remains possible as long as the 5D is not part of the project.

Features

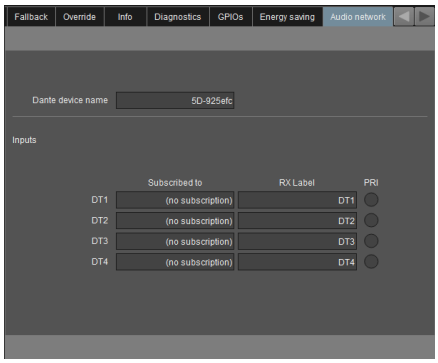
- Support of D90 added.
  R1 supports D90 with firmware version V1.08.00 or higher.
  Devices using firmware versions prior to V1.08.00 require updating first using the Service view.

Enhancements

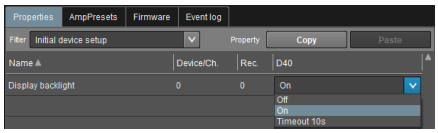
- The 'ID conflict' dialog prevents adjustments to the remote IDs in case a connection to a device has not yet been established. Configuring the remote IDs when the device is not connected will fail. As a result, the conflict dialog will pop up continuously. With this enhancement, the UI indicates whether a device is unreachable and adjustments are no longer possible.



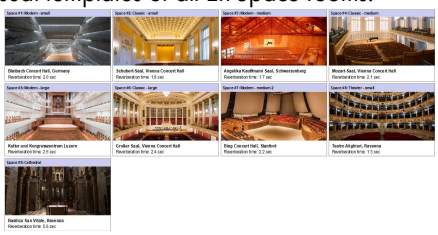
- The Log view can be closed in Show mode.
- The Dante information of 5D amplifiers in the Devices view has been moved from the 'DS Data' tab to the newly added 'Audio Network' tab to better differentiate between various input signals.



- The Properties filter 'Initial device setup' in the Service view now provides options for Display and Front LED configuration of the devices.



- A new “Visuals” folder has been added to the d&b Templates containing visual templates of all En-Space rooms.



- Minor speed improvements when working with DS100(M).

Bug fixes

- Stability of OCA protocol during the connection phase of a device improved when making excessive use of Online-Offline-Online sequence.
- 'Mains Power Peak' information can no longer be assigned to D20 / 10D / 30D since it is not applicable.
- The virtual point P1 of a DS100(M) Coordinate mapping configuration now uses a height of 0 instead of 1 to prevent inclined planes (P1 is X=1, Y=1, Z = 0, P3 is X=0, Y=0, Z=0).
- The initial value of relative remote controls no longer uses the absolute value of a property (e.g. relative Delay controls now use 0.0 instead of 0.3).
- When selecting DS100(M) in the Devices view, the Function group spread factor shown is no longer rounded to 0.5 or 1.0. It now reflects the actual device value.
- When multiple 5D amplifiers suffer from an 'ID conflict' at the same time, assigning adjusted remote IDs to all of them no longer applies to just one of them.
- Input monitoring templates updated so the detection time value is no longer limited to 5s.
- Issue occurring during firmware update of DS100(M) fixed which prevented updating more than four devices at the same time.

- Error caused during En-Scene DS100(M) license check fixed which could have resulted in En-Scene controls being visible although the license was not in use.

10/2024

3.36.3

Enhancements

- System calibration and System check drawings improved to show impedance values down to 1 ohm.
- For DS100M, the physical input source to a channel is simulated while R1 is offline.
- If operating system resources are exceeded on Windows, R1 will no longer work as expected.
  As a potential result, remote controls assigned to groups will only be updated to their actual states partially.
  An error message will appear indicating the resources are exceeded.

Bug fixes

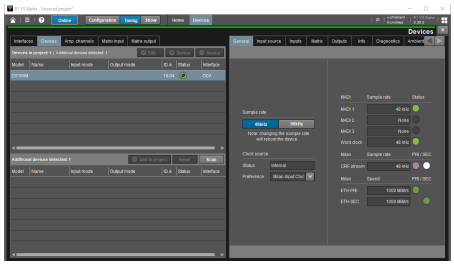
- Resetting the scaling of Positioning views using CTRL / CMD + 0 fits the visible venue element to the screen.
- Setting of empty device passwords in Service view enabled.
- R1 no longer crashes when clicking the description field in Remote view templates without having selected a template beforehand.

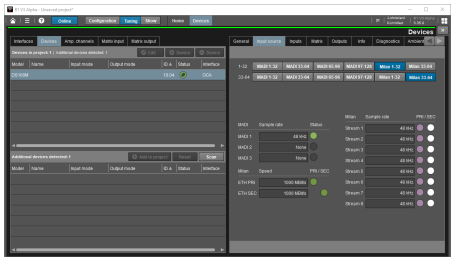
06/2024

3.36.2

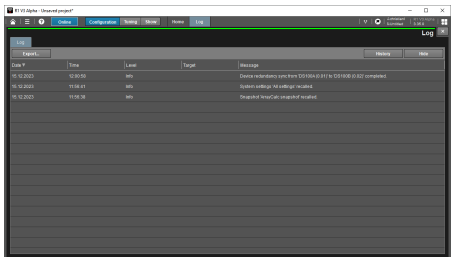
Features

- Support of DS100M added.





- Recalling Snapshots, recalling System settings or performing a device redundancy sync operation is recorded as part of the R1 log.



Enhancements

- Dock for controlling sound object parameters and list of sound objects improved by increasing the area for expanding / collapsing the docks.

Bug fixes

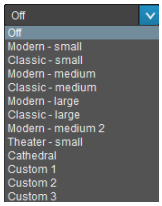
- DN1 and ArraySight are no longer part of the System settings dialog.
- Loading of project files when R1 is installed using a path containing special characters on Windows fixed.
- Instead of showing 0.0 as value for level and delay, the 'Absolute editing' tab of the Matrix crosspoint and Sound object routing controls now displays the actual device value.

01/2024

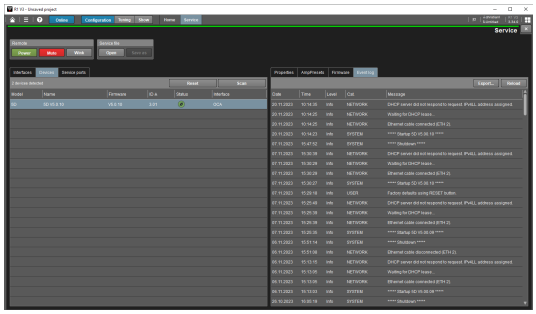
3.34.1

Features

- En-Space custom rooms option added.
  En-Space now provides three storage slots (Custom 1, Custom 2, Custom 3) for individually recorded room responses.
  The room response data can be added using the DS100 web interface and recalled using R1. En-Space room measurements are a paid d&b service.



- Event log export for 5D added.
  The Event log tab now also allows exporting the visible information.

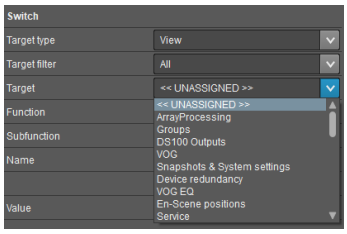


12/2023

3.32.3

Bug fixes

- Permanently lit GR / OVL indication fixed when T10 Line / Arc or 10AD Line / Arc speakers are driven by a 5D amplifier and HFC is changed to 0 while audio is played back.
- Switching off a 5D amplifier driving T10 Line / Arc or 10AD Line / Arc speakers after changing HFC to 0 while audio was played back no longer causes transients on output.
- When working on a project, the “The project file [...] was changed in another program” notification no longer shows up for files that are part of the 'Recent projects' list of ArrayCalc.
- “The project file [...] was changed in another program” notification no longer shows up for project files saved to a folder being synchronized using DropBox.
- When recalling an ArrayCalc snapshot, rel. Delay values of the SUBarray are also properly restored.
- Importing ArrayProcessing data to R1 no longer fails when the configuration of Non-ArrayProcessing loudspeakers is changed in ArrayCalc.
- On Remote views, the sorting order of Snapshots, System settings and Views has been corrected in the properties section of Controls.



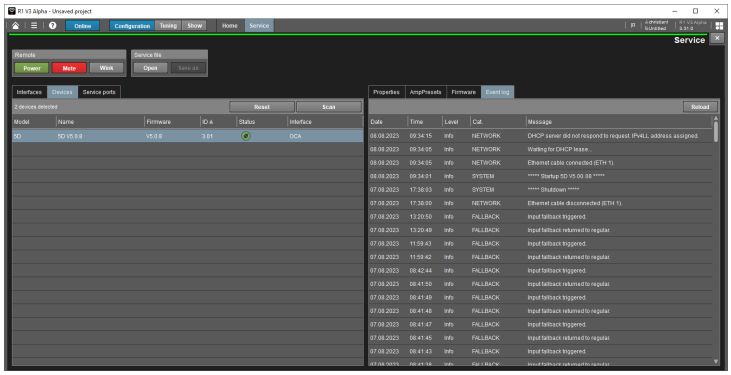
- Selecting a sound object in the Sound objects list on Positioning views now brings the selected item to the front.

10/2023

3.32.1

Features

- Event log for 5D added.



The Service view of R1 now provides an additional tab called 'Event log' to read event information of 5D.

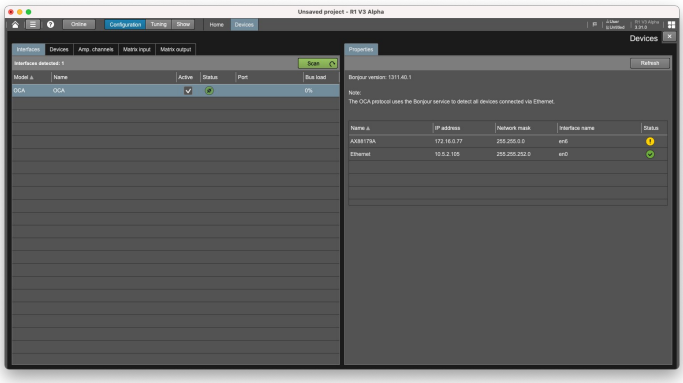
- Available firmware filtered according to device selection.
  Selecting a device in the R1 Service view filters the firmware list for simplified selection.
- Device Diagnostics tab shows error of individual channels.

- List of sound objects shown on positioning view

A list of all sound objects placed on the active positioning view is shown in the upper left corner of the view. This list can be used for selecting/highlighting a sound object.

Bug fixes

- Adding user defined templates containing pictures to R1 remote views no longer loads the wrong picture.
- Applying EQ settings from previously exported EQ file to 5D now loads all filters correctly.
- 'En-Space room' selection now stored as part of System settings.
- Dock for controlling sound object parameters on positioning views no longer randomly blocks keyboard input for Digital controls.
- Spread factor and Group delay controls within Function groups tab show 'not loaded' state (⧗) correctly when changing to Online mode for the first time.
- 'Manage & synchronize' window for synchronizing scenes does no longer create duplicate entries when using device redundancy.
- MacOS: When using certain USB-C Ethernet adapters (powered by ASIX AX88179A chipset), d&b devices are not found after re-plugging the respective adapter.
  A detection mechanism is added to identify those adapters.



08/2023

3.30.3

Bug fixes

- Minor performance improvements when creating System settings.
- ArrayProcessing slot name and comment correctly appearing on remote views when loading a project.
- In Configuration mode, when scaling a positioning view, sound objects no longer move beyond visible screen border.

05/2023

3.30.2

Bug fixes

- R1 no longer crashes when changing from Configuration to Tuning mode with a project containing a Sound object remote control with no target assigned.
- Device redundancy: Issue with adding or deleting a scene after changing from online to offline and back to online now fixed.
- R70 interfaces are re-detected by R1 after network connection was lost.

02/2023

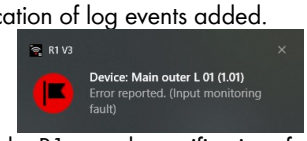
3.30.1

Features

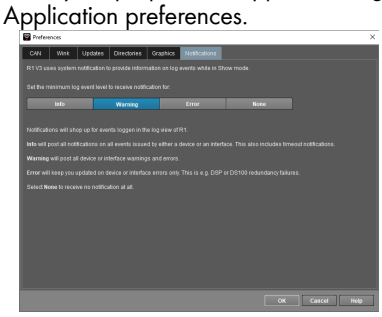
- Dock for controlling sound object parameters on positioning views added.

The dock can be expanded using the small arrow icon on the lower right corner of a positioning view while R1 is in Tuning or Show mode. If a sound object is selected, the dock allows instant access to sound object parameters like delay mode, spread, En-Space send and others.

- System-wide notification of log events added.



When in Show mode, R1 uses the notifications functionality of the operating system to inform about events taking place.
By default, notifications of errors and warnings will pop up for any device that is part of your project. The applicable trigger level can be adjusted using Application preferences.



- Support of E15X-SUB, T-SUB, xA line array and legacy loudspeakers (E0, E3) on 5D added.

Bug fixes

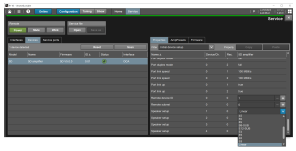
- Copy & paste for multiselection (CTRL / CMD key) of settings in Matrix crosspoint control fixed.

01/2023

3.28.2

Features

- Recalling Snapshots & System settings is no longer blocked.
  The validation of Snapshots & System settings contents was removed. Snapshots & System settings remain usable even if there is a change in project configuration, device settings or firmware that would otherwise lead to a failed validation.
  Instead of blocking the recall function, R1 now validates settings when transmitting Snapshots or System settings contents to the device. A message is shown and an R1 log entry is created when an unsupported setting is detected.
- This applies to situations where , for example, a Snapshot or System setting is sending Load match settings to a device whose loudspeaker configuration has changed and Load match is no longer supported by the new loudspeakers.
- Selecting 5D loudspeaker setup possible in R1 Service view.



  When starting R1 using the 'R1 V3 Inital device setup' Start menu entry (introduced in R1 V3.26.1) you can now also select 5D loudspeaker setups. This simplifies device installation even further.

Bug fixes

- Snapshots & System settings created with 40D / D40 firmware version V1.00.04 or lower are no longer conflicted when using firmware version V1.02.03 or higher.
  After the removal of Snapshot & System setting validation (see above), existing Snapshots & System settings can now be recalled.
  The conflict was caused by a name change of the data object for the AutoStandby threshold. The value of the outdated AutoStandby threshold is no longer written to the amplifiers when recalling old Snapshots or System settings.
  Note:
  It is highly recommended to store affected Snapshots & System Settings again with the desired AutoStandby threshold value. For this particular operation, the use of the “Store” function is mandatory to actually write the new object name.
- Matrix input, output and crosspoint controls no longer show an endless hour glass when using DS100 redundancy.
- Storing System settings of 10D and 30D updated to also include: LED mode.
- Storing System settings of 40D and D40 updated to also include: Mute on override.

- Storing System settings of 5D updated to also include:
  LED mode, Mute on override, Input DT1/DT2/DT3/DT4, Dante input gain, Dante input used for AutoStandby, GPI mode, GPI function, Input fallback target, Input override source.
- Using Snapshot “Update” function now maintains relative control values stored as part of the Snapshot.

12/2022

3.26.2

Bug fixes

- When DS100 is configured for redundancy, the individual properties in the Devices view show the values of the device marked as 'read'.

09/2022

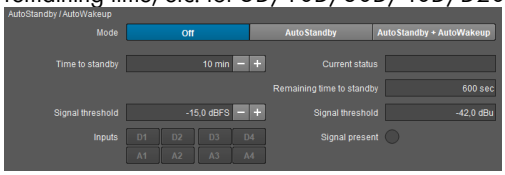
3.26.1

Notes

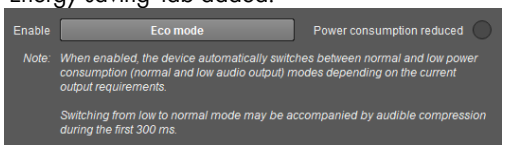
Starting from R1 version 3.26.x, macOS 10.12 is no longer supported.
With R1 version 3.30.x, available as from early 2023, the minimum system requirements will be Windows 10 and macOS 10.14.

Features

- Support of 5D amplifier.
- Support of XSL-SUB.
- 'Energy saving' tab for devices.
  Existing 'AutoStandby' tab was renamed 'Energy saving'.
  The redesigned tab now contains additional status information, such as remaining time, etc. for 5D/10D/30D/40D/D20/D40/D80.



- Support of Eco mode for 40D/D40.
  Option for controlling and monitoring Eco mode on 'Energy saving' tab added.



- Support of upcoming DS100 firmware version 2.
- Additional filter added to Service view to improve commissioning.
  The newly added 'Initial device setup' filter provides a dedicated set of device properties that are useful for setting up a device during the commissioning phase of a project.
- New entry named 'R1 V3 Inital device setup' added in R1 start menu on Windows.
  The newly added start menu entry automatically launches R1 in online mode and opens the Service view.

- Channel diagnostics tab now also contains 'LM impedance error'.
- Device diagnostics tab now also contains 'Input monitoring error'.

Bug fixes

- Speed of drag & drop operation used to add a template to a remote view improved.
- A computer hosting R1 no longer freezes ,when using remote desktop.
- Occasional unusual high memory consumption when R1 is online fixed.

08/2022

3.22.6

Notes

To use the 'Improved loudspeaker position & orientation for Soundscape projects' feature, Soundscape enabled projects must first be opened and saved using ArrayCalc version 10.22.0 or higher.
Project files saved using the current R1 version 3.22.x cannot be opened in older versions of R1 or ArrayCalc.

Bug fixes

- Issue with connections being lost occasionally when transmitting or recalling scenes in DS100 fixed.
- DS100 Coordinate mapping name now instantly updated in the device when changed in R1 while online.
- The draggable area of Sound object remote controls has been increased to also include the surrounding gray ring.

07/2022

3.22.4

Notes

To use the 'Improved loudspeaker position & orientation for Soundscape projects' feature, Soundscape enabled projects must first be opened and saved using ArrayCalc version 10.22.0 or higher.
Project files saved using the current R1 version 3.22.x cannot be opened in older versions of R1 or ArrayCalc.

Bug fixes

- R1 no longer crashes occasionally when loading a project file in which devices were removed in ArrayCalc.
- Issue with changing the sorting order of Remote views fixed.
- Remote view sorting order in Home view is now maintained after reopening a project.
- In the Devices view, the x and y values for DS100 En-Scene positions are now correctly converted when units are set to 'feet'.
- Devices no longer get stuck in 'found but not connected' state ( ) despite correct network configuration.

05/2022

3.22.3

Notes

To use the 'Improved loudspeaker position & orientation for Soundscape projects' feature Soundscape enabled projects must first be opened and saved using ArrayCalc version 10.22.0 or higher.
Project files saved using the current R1 version 3.22.x cannot be opened in older versions of R1 or ArrayCalc.

Bug fixes

- When enabling Device redundancy for DS100, the device will no longer toggle between online and timeout for an indefinite period of time.
- Controls on a remote view targeting a device or channel property allow selecting a subfunction again.

03/2022

3.22.2

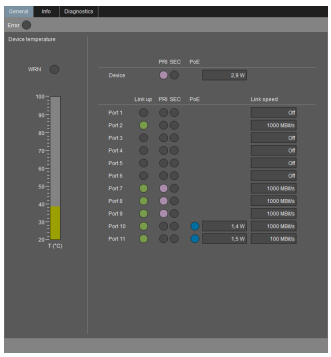
Notes

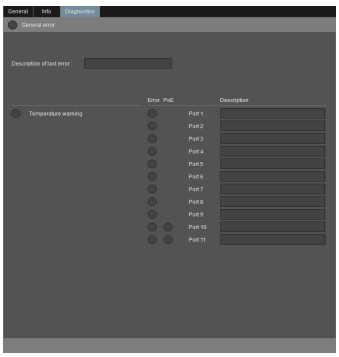
To use the 'Improved loudspeaker position & orientation for Soundscape projects' feature Soundscape enabled projects must first be opened and saved using ArrayCalc version 10.22.0 or higher.
Project files saved using the current R1 version 3.22.2 cannot be opened in older versions of R1 or ArrayCalc.

Features

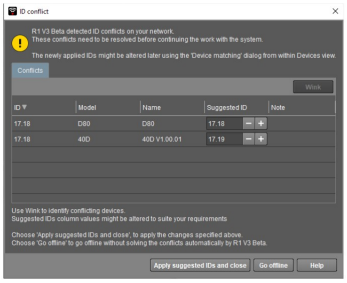
- Support of XSL(i)8 / XSL(i)12 on 30D amplifiers.
- Improved loudspeaker position & orientation for Soundscape projects.
  The calculation of loudspeaker position & orientation for Soundscape enabled projects was moved to ArrayCalc to obtain elaborated data.
  This massively improves position & orientation data of monitors, loudspeakers rotated vertically through more than ± 90° and horizontal A-Series arrays.
- Device redundancy.
  In the Device view of R1, two physical DS100 devices can be configured to form one redundancy device .

  Both, Device A and Device B, are treated as equal partners. Parameters set in the (virtual) redundancy device in R1 are sent to both physical devices provided both are connected.
  When changes are made to one of the devices directly (e.g. using OSC) or while one of the devices is powered off/in timeout, these changes are not synchronized between the devices automatically.
  Therefore a Sync option is provided to synchronize both physical devices.
  The controls and views of R1 only show values of either Device A or Device B. You can define the device from which R1 should read by tagging either A or B with a Read flag.
  For more information, please refer to R1 Help contents.
- Device view update regarding DN1.
  The Device view now provides extended information on DN1 Ethernet ports on the General and Diagnostics tab.





- Improved dbRemID conflict dialog.
  A conflict caused by multiple OCA devices using the same dbRemID can now be solved from within R1. A dialog automatically pops up when a conflict is detected. This dialog can be used to re-assign a dbRemID to a device.



Bug fixes

- After changing a comment of a Device scene while online and having the target device connected, the device now updates automatically.
- Remote controls readings of continuously updated device information (e.g. level meters) do no longer get stuck showing the default value if the firmware version of the device does not match the latest firmware known to R1.
- Issue with Device conflict dialog (e.g. containing Model conflicts) sometimes not closing automatically when error is resolved fixed.

Note: By updating DS100 Firmware to version 1.16.03 or higher wrongly displayed 'not equal' status of Device scenes is fixed.

02/2022

3.20.2

Bug fixes

- Q1 back on track. Projects using Q1 speakers can now be loaded again.

10/2021

3.20.1

Features

- Support of XSL(i)8 / XSL(i)12.
- Support of DN1 network switch.
- Support of D40 amplifier.
- Improved Input routing templates to follow D40 / 40D amplifier layout.
- Release notes of R1 now available in the R1 Help menu.

Bug fixes

- On Windows, the project lock ("Project file ... is currently open..."-warning) applied to a project file currently open in R1 is now removed correctly when the system is shut down or restarted.

10/2021

3.18.5

Bug fixes

- AutoCreate improved to report less "Failed to find matching group tree" warnings caused by DS100 configuration changes.
- Editing of nodes in Matrix crosspoint control blocked if Input uses En-Scene mode and output is assigned to a function group.

Notes

On Windows, an automatic update of previous (< R1 version 3.16.0) versions to R1 version 3.18.5 is not possible using the internal update feature. Please download the latest version from www.dbaudio.com.

The Windows version of R1 version 3.18.5 is created for 64-bit operating systems. This is the recommended version for all users.
If a 32-bit version of R1 is required, use R1 version 3.14.1, which can be downloaded from the Software archive.

The Windows version of R1 version 3.18.5 no longer supports Peak-USB and Peak-PCI CAN interfaces.
If a version of R1 is required which supports Peak-USB or Peak-PCI, use R1 version 3.14.1, which can be downloaded from the Software archive.

08/2021

3.18.3

Bug fixes

- Deleting a venue element in ArrayCalc, which was used for coordinate mapping in the DS100, no longer prevents R1 from loading the project.
- Remote items that display device information (Meter, LED, Display controls) but address an adjustable device property are no longer stored as part of a snapshot.
- Unintended "Project file changed" notification is no longer shown when the project file is located on a OneDrive share on macOS.
- Digital input clock selection (Master / Slave / SRC) no longer shows conflicted state when a D80 V2.22 or a D20 V2.14/16/18/20 is used.
- When executing auto-creation, the project is marked as modified when opened for the first time.

Notes

On Windows, an automatic update of previous (< R1 version 3.16.0) versions to R1 version 3.18.3 is not possible using the internal update feature. Please download the latest version from www.dbaudio.com.

The Windows version of R1 version 3.18.3 is created for 64-bit operating systems. This is the recommended version for all users.
If a 32-bit version of R1 is required, use R1 version 3.14.1, which can be downloaded from the Software archive.

The Windows version of R1 version 3.18.3 no longer supports Peak-USB and Peak-PCI CAN interfaces.
If a version of R1 is required which supports Peak-USB or Peak-PCI, use R1 version 3.14.1, which can be downloaded from the Software archive.

07/2021

3.18.2

Features

- Support of 40D amplifier.

Bug fixes

- 'DS Data' Device details page no longer shows Input D1 & D2 information also for Input D3 & D4.
- EQ curve sometimes not shown for DS100 outputs fixed.

Notes

On Windows, an automatic update of previous (< R1 version 3.16.0) versions to R1 version 3.18.1 is not possible using the internal update feature. Please download the latest version from www.dbaudio.com.

The Windows version of R1 version 3.18.1 is created for 64-bit operating systems. This is the recommended version for all users.
If a 32-bit version of R1 is required, use R1 version 3.14.1, which can be downloaded from the Software archive.

The Windows version of R1 version 3.18.1 no longer supports Peak-USB and Peak-PCI CAN interfaces.
If a version of R1 is required which supports Peak-USB or Peak-PCI, use R1 version 3.14.1, which can be downloaded from the Software archive.

06/2021

3.16.3

Bug fixes

- Multiple DNS entries causing R1 to crash on Windows fixed.
- Support of ArrayCalc "flown install" mounting option added to AutoCreate.
- Crash when toggling between Level metering modes of DS100 inputs on Device view fixed.
- PRI and SEC LED on Device view no longer overlap "Rx label" information when toggling between day and night modes.
- Sorting columns by name on "System check & ArrayVerification" view fixed.

Notes

On Windows, an automatic update of previous (< R1 version 3.16.0) versions to R1 version 3.16.3 is not possible using the internal update feature. Please download the latest version from www.dbaudio.com.

The Windows version of R1 version 3.16.3 is created for 64-bit operating systems. This is the recommended version for all users.
If a 32-bit version of R1 is required, use R1 version 3.14.1, which can be downloaded from the Software archive.

The Windows version of R1 version 3.16.3 no longer supports Peak-USB and Peak-PCI CAN interfaces.
If a version of R1 is required which supports Peak-USB or Peak-PCI, use R1 version 3.14.1, which can be downloaded from the Software archive.

04/2021

3.16.2

Features

- Sound object routing control added to allow adjusting or muting each En-Scene sound object within individual function groups.

  upport of the two new function group modes 'Outfill embedded' and 'Delay line embedded' added.

- Precision of 'Spread' control step size reduced from 0.001 to 0.01.
- Support of 'Ready for R1' information provided by ArrayCalc added.

Bug fixes

- The enlarged EQ is no longer shown in the 'Snapshots & System settings' view when creating snapshots.
- The DS100 Scenes 'Sync...' button is no longer blocked after loading a new project without restarting R1.
- Crash when trying to add a template containing a picture fixed.
- Remote controls dealing with the delay value of an ArrayProcessing enabled loudspeaker now use 6.2 ms as default value.
- Creating a group structure using AutoCreate no longer leads to a warning popping up when loading the project.
- EQ curve of DS100 output channels occasionally not being visible on first activation of the EQ tab fixed.
- OSC path reference on 'Coordinate mapping' tab corrected.
- When pasting remote items with no target assigned, an 'unassigned' icon is displayed now.

Notes

On Windows, an automatic update of previous versions of R1 to R1 version 3.16.2 is not possible using the internal update feature. Please download the latest version from www.dbaudio.com.

The Windows version of R1 version 3.16.2 is created for 64-bit operating systems. This is the recommended version for all users.
If a 32-bit version of R1 is required, use R1 version 3.14.1, which can be downloaded from the Software archive.

The Windows version of R1 version 3.16.2 no longer supports Peak-USB and Peak-PCI CAN interfaces.
If a version of R1 is required which supports Peak-USB or Peak-PCI, use R1 version 3.14.1, which can be downloaded from the Software archive.

02/2021

3.14.1

Features

- Support of 44S loudspeaker.

Bug fixes

- On macOS, R1 no longer crashes when editing remote control properties after having moved the R1 application from one screen to another.
- On Windows, R1 no longer crashes occasionally when opening a view while having a touch screen installed or Windows 'Accessibility Features' enabled.
- Duplicating a snapshot no longer shortens the new name in an unforeseen manner when the original name ends with a number.
- When returning to an open positioning view, R1 now properly remembers the area previously displayed.
- In tuning mode, controls are no longer hidden when clicking on a frame.
- Text control default size and color changed for more convenient working.

10/2020

3.12.3

Bug fixes

- R1 no longer shows “The project file was changed in another program” message when project file is saved in a shared OneDrive folder on macOS.
- R1 no longer freezes randomly when changing the speaker setup.
- Picture control now differentiates between day and night modes.
- Moving or copying parts of the group tree no longer leads to a loss of group contents.
- Typical impedance values for KSL-SUB added to the help contents.
- Check for updates settings (R1 Preferences > Updates) are now properly taken into account .
- EQ 'Save as...' and 'Open...' dialogs no longer appear twice.

08/2020

3.12.2

Bug fixes

- Error in project password protection feature fixed, which could lead to undesired behavior.
- R1 no longer crashes randomly when using DS100 Firmware V1.10.x.
- Discontinued firmware download with slow internet connection fixed when download time exceeds 30 mins.

04/2020

3.12.1

Features

- Support of KSL-SUB loudspeaker.
- Improved compatibility with high resolution screens (including new icons).
- 'Device scenes' added to R1 to manage and control scenes within DS100.
- Support of 'Ambient temperature' parameter control which was added to DS100 to align signal delays with the actual speed of sound.
- Support of two new DS100 En-Space rooms: 'Theater – small' and 'Cathedral'.
- Support of 'Spread factor' parameter control for function groups, which was added to DS100.

Notes

Support of KSL-SUB requires an update of D80 to firmware version 2.22.0 (or higher).

All DS100 related features require an update of DS100 to firmware version 1.12.01 (or higher).

Bug fixes

- Missing Matrix input channel names added to 'En-Space – Inputs' tab.
- Editing of template names in Remote views enabled while in local edit mode (R1 in Tuning mode, pencil activated on a specific view).
- Setting the first input/output number of a Matrix crosspoint control to a higher value than the last input/output number no longer leads to crosspoints indexes exceeding the maximum count of 64.
- Selecting multiple Channel controls with assigned targets no longer leads to wrongly displaying << UNASSIGNED >> as target.

- Disconnecting and reconnecting the same device within a short period of time no longer triggers a device conflict dialog pointing out that multiple amplifiers use the same remote ID.
- THC and CPL for SL-Series control no longer change their positions when enlarged to maximum using the mouse.
- Hourglass icon no longer shown on remote controls occasionally after values have already been read.
- ArrayCalc venue element on positioning views no longer hidden by pictures.

03/2020

3.10.1

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 new THC (Temperature & Humidity Control) function for all array-processed setups providing temperature and humidity adjustment without the need for recalculation in ArrayCalc.

Notes

Both the THC function and the new CPL function for the SL-Series require the use of the latest version of ArrayCalc V10.10.0 (or higher) in combination with the latest amplifier firmware V2.20.00 (or higher).

Existing project files based on an old ArrayCalc or R1 version can still be used in combination with an 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

- Unintended “The project file ... was changed in another application” message removed, shown when saving a project to a DropBox folder on macOS.
- Grouped control sections for TOPs and SUBs created by AutoCreate no longer overlap in the case of stacked arrays consisting of both.
- Hovering over a switch control in 'different values' state, which is assigned to a group, no longer leads to a program crash.

12/2019

3.8.1

MacOS Information

This new R1 version 3.8.1 requires macOS 10.12 or higher. If you are running macOS versions before 10.12, you can use R1 version 3.6.11 from our heritage software section. See link: https://www.dbaudio.com/global/en/products/software/software-archive/

Features

- Support of A-Series.'Same width' and 'Same height' tools added for easy resizing of controls within remote views.
- Support of the improved En-Space initialization (Pre-Delay and Mapping) of DS100 Firmware v1.10.01.
- Generate System settings with selected devices only.

Bug fixes

- Improved OCA connection handling (more robust against network interruptions now).

- AutoCreate for 3xB2-SUB CSA SUB array configurations fixed.
- Scaling and rotation of joined venue elements is taken into account for initialization of DS100.
- DS100 Soundscape initialization for SUB arrays and linked loudspeakers now uses a calculated midpoint value.

10/2019

3.6.11

Bug fixes

- When recalling a snapshot containing relative fader positions, the previously stored positions are recalled.
- Opening a project file located in a folder which is protected by Windows 10 Defender "Controlled Folder Access" no longer leads to a blocked R1 instance. Saving a project to a protected folder is only possible when allowing access by using Windows 10 Defender functionality.

07/2019

3.6.10

Bug fixes

- AutoCreate algorithm fixed when building 3 x B2-SUB CSA SUB array.
- Matrix crosspoint control popup no longer closed when clicking inside input fields while zoom factor is higher than 100%.
- Matrix crosspoint control popup now accepts user input even if ISP signal is flashing or TAB key was pressed.
- Network utilization improved while creating System settings. This results in a reduced System settings creation time.
- R1 no longer crashes when recalling System settings with a lot of content.
- Meter controls within automatically created DS100 'Input', 'Output' and Soundscape 'En-Space zones & room' views redefined. Minimum and maximum are now aligned with the fader control next to the meter control. The marker position uses -2dbFS as default value.
- Meter controls within automatically created DS100 'Input' view updated to use 'Matrix input level meter post fader' instead of 'Matrix input level pre fader'.
- Snapshot recall with combined values for Input fallback/Input overwrite mode and state does no longer cause random fallback/overwrite state.

06/2019

3.6.7

Features

- Support of B8-SUB loudspeaker.

Bug fixes

- "Digital input lock" property of D20/D80/10D/30D as target for display controls added in R1 remote views.
- Display controls assigned to a group show a human readable content.
- Removing large group nodes no longer freezes R1.Matrix Crosspoint control no longer allows modification of width and height parameters. Instead, the actual width and height are calculated based on the input & output count.
- "Highlight channels" button in Groups view checks for the type of selection.
- Unexpected high CPU load while browsing Devices view fixed.

- Unintended “Project file changed” notification no longer shown if project file is located on a network share, iCloud, DropBox,... on MacOS.
- Check boxes in AutoCreate dialog now shown on MacOS Mojave.
- Switching views while an amplifier channel is selected in Devices view re-enabled when using MacOS Mojave.
- Switching DS100 Coordinate mapping entries in Devices view re-enabled in MacOS Mojave.
- Improved loading of a project file using double click on MacOS Mojave.

04/2019

3.6.5

Bug fixes

- Setting of maximum number of speakers for KSL8-Arc, KSL8-Line, KSL12-Arc and KSL12-Line setups in LoadMatch feature fixed.
- Inoperable device reset functionality re-enabled.
- DS100 Matrix Input / Matrix Output / En-Space Zone Eqs now show the actual filters of the connected device.
- Matrix crosspoint control with hidden output controls no longer causes a crash when clicking on an empty space within the crosspoints.

02/2019

3.6.3

Features

- Matrix crosspoint control improved.
- AutoCreate dialog improved.
- New En-Space room parameters 'Predelay factor' and 'Rear level' support added. (Requires DS100 firmware v1.08.00 or higher).
- Meter, LED and display control size redefined.
  Additional scale or way information will no longer affect the size of the control element itself.

Note: This redefined control size may require small layout adjustments in existing projects and templates.

Bug fixes

- Locking mechanism added to prevent accidental overwriting when working with R1 & ArrayCalc on the same project at the same time. (Requires ArrayCalc v10.6.0 or higher)
- Way information on meter controls no longer overlaps.
- No more unintended password prompt when opening a project created using the Western Arabic numeric system on a computer that does not use the same setting.
- Adding multiple sound object controls using 'Add to view' no longer joins the items.

- Selecting a target in the remote control properties editor no longer changes the target filter.
- Manually adding an online DS100 to project blocked to prevent Soundscape parameter reset.

02/2019

3.4.4

Bug fixes

- AutoCreate now creates relative controls adding a “rel.” prefix to the name.
- Copy & paste of a switch control targeting a snapshot no longer leads to a checkable button.
- Issue with overlapping 2-Way active information for Meter controls solved.

12/2018

3.4.3

Bug fixes

- Repositioning of controls using cursor keys or mouse improved on Remote and Positioning views.
- Initial AutoCreate check no longer reports every source as outdated.

11/2018

3.4.2

Features

- Support of KSL loudspeakers.
- Support of symmetrical pair links provided by ArrayCalc.
  Note: Enabling symmetrical pair linking in ArrayCalc will disable the ArrayVerification function for the relevant source groups.
- Support of additional En-Space room #7 Modern – medium 2 (Bing Concert Hall, Stanford)
- AutoCreate feature extended to include the creation of a group tree and Remote views for DS100 / Soundscape.
- Size of meter and LED controls can now be reduced.

Bug fixes

- AutoCreate algorithm improved to support asymmetrical SUB arrays.
- AutoCreate algorithm improved to support flown & stacked arrays.
- AutoCreate algorithm caption for 'Digital input clock' fixed.
- AutoCreate is no longer triggered for projects configured to start in Show mode.
- Column width of System check tables redefined to improve readability.
- Wrong drawing of sound object positions on Positioning views fixed when these are based on rotated ArrayCalc venue elements.
- Sound object controls can now be moved to negative coordinates using the keyboard.
- Opening a Positioning view in Tuning mode now shows the ArrayCalc venue element with correct scaling.
- Changing the sorting order within the Snapshots & System settings view now also applies to the list of snapshots and system settings.
- Aborting the snapshot update no longer removes the snapshot itself. Matrix crosspoint control creation time decreased.
- Minor speed improvements when loading files with many snapshot or system settings contents.
- Reoccurring 'Project file changed' dialog on MacOs no longer appears when storing project locally.

10/2018

3.2.5

Bug fixes

- R1 load time accelerated, if harmed by many log entries.

- Fixed preview pictures of Remote & Positioning views if they failed to appear.
- Removed graphical artifacts if resizing a Positioning view.
- Drawings of rotated Positioning views fixed.
- Modifications of picture controls do not lead to accidental resizing of them any more.

07/2018

3.2.4

Bug fixes

- Crash caused when loading projects which are based on *.dbac2 files and were modified by R1V2 fixed.
- Switching to Online mode sped up for projects containing large amounts of snapshot contents.
- Wrong nominal position label of Array verification fixed.
- Adding / moving / scaling picture controls on Positioning & Remote views sped up.
- Illogical restrictions when moving groups in group tree removed.
- Crash when loading the same template file containing pictures twice.
- AutoCreate now uses SUB array name specified in ArrayCalc.
- Positioning view scaling is no longer reset when switching to another view while in Tuning mode.
- Analog/digital Input monitoring toggles for 10D/30D enabled in Devices view.

07/2018

3.2.0

Features

- Log view added to display warnings and errors of devices that are part of the project.
- Redesign of Sound object controls.
- Grid can be added to Positioning view.
- Picture control can be added to Positioning view.
- Sound object controls can be added to Positioning view using drag & drop from the Matrix Input list on the left-hand side of the view.

Bug fixes

- ArrayVerification algorithm for T10 setup improved.

06/2018

3.0.11

Bug fixes

- Group tree validation after loading a project from ArrayCalc added.“Audio networking” renamed “DS data” to avoid confusion with the “Audio networking” option in ArrayCalc.
- System calibrate / check function no longer getting stuck.
- Missing channel controls after using Auto create fixed.
- Loss of relative control values in snapshots after using Update fixed.
- Remaining hourglass icon on “Digital clock selection” fixed.

05/2018

3.0.10

Bug fixes

- Fixed crash when switching to the Home view after editing Remote

control name.

- Fixed crash caused by undoing a join/split operation.
- Remote control template can now be properly assigned to a device target.

  Defining Remote control templates without a target fixed.
- Group targets can now be properly assigned to a selection of Remote controls.
- Minor issues in Meter Remote control fixed.

04/2018

3.0.9

Bug fixes

- Missing option to assign mixed targets to templates fixed.

04/2018

3.0.8 Beta

Bug fixes

- Swapping Coordinate mapping working again after reloading project.
- Coordinate mapping tab contents now properly displayed.

  Array verification no longer freezes.
- Issue with double-selected Sound object fixed.
- Correct scaling behavior in Positioning view.
- Group delay for Function groups correctly accepted now.

03/2018

3.0.7 Beta

Features

- System check extended to include testing the DS100 output routing.
- R1 Help now includes TI 501 d&b Soundscape.

Bug fixes

- Minor fixes for auto-creation of remote views.
- Channel name no longer lost when reopening the project.
- Selection in subfunction of DS subscribed channels function fixed.
- Copy&paste and drag&drop of a Matrix crosspoint control no longer causes loss of target information.

02/2018

3.0.4 Beta

Bug fixes

- Increased overall stability.
- Support DS100 firmware prior to 1.00.06 removed. Please update your device using the R1 Service view.
- Correct update of DS100 coordinate mapping after entering new values while online.
- Issue with recalling & saving snapshots that contain Sound object positions fixed.

12/2017

3.0.1 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.
- Support of DS100 Signal Engine with new views for Input, Output and matrix.
- Support of optional d&b Soundscape software features En-Scene and En-Space.
- Extended Snapshot editor to view and delete content.

For a detailed description of the new features and information regarding the recommended workflow, please also refer to the Software Newsletter.

12/2017

Project file compatibility

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

<table>
<tr><th>Created in...</th><th colspan="3">Minimum version to open with...</th></tr>
<tr><th>ArrayCalc</th><th>ArrayCalc</th><th>R1</th><th>NoizCalc</th></tr>
<tr><td>11.4.x</td><td>11.4.x</td><td>3.36.x</td><td rowspan="2">4.0</td></tr>
<tr><td>11.2.x</td><td>11.2.x</td><td rowspan="3">3.34.x
3.32.x
3.30.x
3.26.x</td></tr>
<tr><td>11.0.x</td><td>11.0.x</td><td>3.2</td></tr>
<tr><td>10.26.x</td><td>10.26.x</td><td rowspan="3">3.0 Update 29.06.2022
2.8 Update 23.02.2022</td></tr>
<tr><td rowspan="2">10.24.x</td><td>10.24.x
10.22.x</td><td rowspan="2">3.22.x</td></tr>
<tr><td>10.22.x</td><td>10.22.x</td></tr>
</table>

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.