Release Notes — v1.0.33 to v1.1

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Covers everything added since build 1.0.33. The headline is groups: the grouping engine has been rebuilt so that a group's members and settings stay in step across every amplifier in it. Other themes: connecting to amplifiers and the Network tab, presets and sessions, ASC/NSC limiter indication, and crash hardening.

Upgrade notes

- **You may be asked about group settings the first time you open an existing show.** Sessions saved by earlier builds do not hold every group setting in the form this build uses, so System Engineer can find settings on the amplifiers that the session lacks. If the amplifiers are doing what you want now, choose "Use the drive module's settings" to keep it.
- **Sessions saved by this build can still be opened by 1.0.33 and earlier.** Sessions now store group EQ A/B banks, which older builds did not recognise; these are kept where older builds don't read them, so a session shared with a colleague on an older build no longer disappears from their session list.
- This build is offered automatically through Check for updates on 1.0.33. Earlier builds need the installer run by hand.

Groups

Groups work differently in this release, and some of it is visible. System Engineer now keeps each group's members and its gain, mute, delay and EQ in the session, and continuously keeps every member amplifier in line with them. Before, each amplifier held its own copy of the group, and those copies could drift apart or be lost.

What's new

- Group edits are immediate. Group mute, gain, delay and EQ changes reach the amplifiers straight away. They could take several seconds before, and got slower as a group grew.
- Groups keep working while amplifiers are off-line. A group can be edited while some of its members are disconnected; each member picks up the group's current settings as soon as it reconnects.
- A group shows when some of its members are off-line. The group tile, mixer strip and selected-group panel show an off-line indicator and a message such as "2 of 6 drive module(s) off-line. Changes are applied when they reconnect." The tile's tooltip counts members that are on-line, off-line, or on drive modules that are not present.
- System Engineer asks before replacing group settings it finds on a drive module. When a drive module's group gain, mute, delay or EQ differ from the session's, the differences are listed and you

choose "Use the drive module's settings" or "Keep this session's settings". "Keep session's settings and don't ask again" turns the question off; turn it back on in Settings with "Ask before replacing group settings found on a drive module".

- Applying a session sets up each amplifier's groups first. Each matched amplifier receives the session's group membership and settings before the rest of its settings, so you are not asked about amplifiers the session is setting up. Amplifiers that are not in the session are asked about once the load has finished.
- A channel with active group processing is recognised as a member. When System Engineer first connects to an amplifier, a channel whose group gain, mute, delay or EQ boost is active is counted as a member of that group, matching what the amplifier's front-panel overlay LED shows.

What changes for you

- The session is in charge of groups. Group settings or membership changed from an amplifier's front panel, or from another copy of System Engineer, are put back to the session's within about 45 seconds. Make group changes in the session you are running.
- An emptied group resets. Removing the last member from a group asks "Reset group master?" and, once confirmed, returns the group's gain, mute, delay and EQ to their defaults. A group returned to the pool also comes back neutral, so Add Group never hands out a group that is already muted or attenuated.
- A group with no connected members hides the mute and gain controls on its tile until a member connects.
- Group membership belongs to the amplifier it was made on. Applying a session to a different amplifier of the same model, such as a replacement unit, does not add that amplifier to the session's groups; add its channels to the groups again. Sessions saved by earlier builds still take their group membership from the session's device data, as before.
- Group membership on virtual devices is not yet saved with the session. The groups come back when the session is reopened, but without their virtual members, so re-add them after loading. Grouping virtual devices works normally while the session is open.
- Clearing an amplifier's groups doesn't always survive a restart. After Clear Group membership (overlays), some amplifiers bring back their previous group memberships the next time they restart. If System Engineer is running with your session at the time, it puts the session's groups back. If not, check the amplifier's groups after it restarts and remove any channels that shouldn't be there.
- The group EQ gain range is now –15 to +15 dB. A –15.2 dB step appeared at the bottom of the group bell and low-shelf gain; it was never a valid group setting, and the amplifier held –15 dB.

Fixed

- Group EQ, gain, delay, mute and the group EQ A/B banks are restored when a session is applied. Group EQ was often flattened: edits made before a session had been applied in that run were not saved, member amplifiers re-joining after the restore overwrote it, and the A/B banks were not stored in the session at all.
- Group names, colours, mixer positions and visibility are applied reliably when a session loads, and loading a session with no groups now clears the previous session's groups.

- A newly created group can no longer be switched off by a session load that runs moments after it was created.
- Removing a channel from a group could take it out of a different group if another group was unlocked while the confirmation was closing. The channel now leaves the group it was removed from.
- Mixer strips are no longer left behind when several groups empty at once, as a session load can do, and an amplifier that carries several groups can leave without an error.
- Virtual devices keep their group values while you work off-line; they no longer drop back to defaults each time System Engineer re-reads them.

Connecting to amplifiers & the Network tab

- An amplifier restarted from System Engineer now reconnects on its own. It was moved to the amber list after a single failed connection attempt while it booted, and then stayed disconnected until someone stepped in. Amber is now set only when you choose it.
- Updated device communications library. It fixes a crash and connection drop-outs found while investigating amplifiers falling off the network, and an amplifier that drops off can now be found again without restarting System Engineer.
- On a PC with more than one network adapter, each amplifier is shown under the adapter it was actually heard on, instead of a guess from subnets. Where the control and Dante adapters shared an address range, amplifiers were labelled "via DANTE" and traffic could leave through the wrong adapter.
- An amplifier heard on two adapters (bridged networks) is listed under both, with a note such as "Also visible via DANTE — the networks appear to be bridged". Connect from the adapter you want to use; such an amplifier is not connected automatically until that choice is clear.
- The Network tab no longer hides devices it cannot place. Devices with no matching adapter appear under "Other / unknown adapter", and a device that cannot be controlled says why: a different subnet, a fixed IP among auto-IP devices, or an IP address that keeps changing. Adapter headers warn when two adapters share an address range or an adapter is running at 100 Mbps.
- Network diagnostics now test the control port the amplifiers use. They tested an unrelated port and reported "port closed" for amplifiers that were reachable.
- Fixed timing faults that could stop a connected drive module from ever appearing in the explorer, or leave it unavailable after it re-synchronised or reconnected.
- Clicking an amplifier that is still connecting at start-up now waits for the connection instead of failing with "Unable to resolve features".
- Mute All and Unmute All no longer stop part-way when the device list includes an amplifier that has not connected yet.
- Fixed a crash when amplifiers dropped off the network while their connection was being checked.

Metering (ASC & NSC)

- Thermal and excursion limiting on ASC and NSC amplifiers now show as on/off LEDs. They never lit before, even while the amplifier's front-panel Therm LED was on. Virtual ASC and NSC devices show them too.

Device & OEM support

- Martin Audio iK41 now opens. It failed with "Device Setup Load Failed".
- Danley SC48 FIR is now created with the correct architecture.
- Convert to OEM no longer fails when no library is selected.

Presets & device memory

- Channel names you have typed, such as "Tops" or "Subs", are no longer overwritten by preset component names or reset to "FullRange" when a preset is applied. A preset now only names a channel that has no name.
- Saving presets from a virtual NSC48 to the library works again. Every slot failed to save.
- Saving presets from a device now reports the real error instead of "not compatible with this version" for every failure, and the faults behind that message are fixed, including empty slots and Stamp presets with more than four ways.
- Amp gain edits on older ASC presets are no longer lost.
- Importing a file that is not a preset library now says "File is not a preset library".
- Importing a user preset library from a location System Engineer cannot write to, such as Program Files or a network share, now opens the installed copy, so changes to it are saved.
- Clicking a preset whose data is missing from its library file now says so and suggests deleting it. Before, nothing happened and the previous preset stayed on screen.
- Converting a folder that holds a locked preset into a device folder no longer fails part-way and leaves the folder half converted.

Snapshots

- Blank snapshots no longer share routing. Editing one blank snapshot's routing changed every blank snapshot of that model.
- Opening a device-settings file now updates the Snapshots view straight away, instead of only after switching to Setup and back.
- Fixed hangs in the Snapshots view.

Files & sessions

- An empty or truncated session file is rejected with a message instead of crashing System Engineer.

- A session holding settings this build does not recognise no longer vanishes from the session list or hides the folder it is in.
- Switching between virtual devices after saving a session no longer raises "Synchronizer Creation Failed" errors, and a single click no longer becomes an accidental multi-selection.

Stability & crash fixes

- Fixed a crash in the Session view when taking a screenshot of a large Tune view.
- Choosing a FIR file with too many taps now shows the problem in the Tune view instead of failing.
- Fixed a crash with the EQ curve drag-handle labels in Tune and the preset editor.
- Crash reports carry more detail for support, including the underlying cause when a module fails to start and native stack frames for crashes outside the application code.

Security

- Every application file is now digitally signed, not only the installer.