APEX CloudPower Firmware / IntelliCloud WebUI Update

RELEASE NOTES V1.3.5S

⚠ **Important:** **- RLY (Relay) / EN54.** Customers requiring the GPO Relay function for amplifier fault-warning in an EN54 VACIE fire alarm system please note that this feature has been disabled in firmware V1.3.5S. – please contact APEX support (support@apex-audio.be) for a solution. This feature will be reimplemented in a future firmware version.

⚠ **Important:** OEM amplifier customers – to ensure smooth operation, please follow guidance from the OEM manufacturer. Firmware for OEM amplifiers should always be downloaded from the OEM manufacturer's website.

New Features in V1.3.5:

- UDP command: request channel label. This UDP command allows CloudPower channel names to be shared with third party devices.

Issues Resolved in V1.3.5:

- v1.3.4 boot issue. Firmware v1.3.5 prevents an issue with some CloudPower amplifiers running v1.3.4 firmware becoming locked during the boot up sequence.

- IntelliCloud changes reflected on CloudPower hardware. Resolved caching issue which could result in changes made in the IntelliCloud WebUI not being promptly reflected by the relevant CloudPower hardware unit.

Enhancements in V1.3.5:

- Internal dual redundant boot up mechanism. A more robust boot up system has been implemented, employing separate copies of system files.

- Improved firmware update mechanism. The way firmware updates are managed within the amplifier has been upgraded to eliminate the potential for packet loss during the update process.

- Default channel naming. The default channel name for CloudPower amplifier channels has been changed to Output A, Output B, etc.

OEM Issues Resolved + Enhancements in V1.3.5

- New DSP firmware for all plate amplifiers. v1.3.5 provides full support for all plate amplifiers based on the APEX SMA-2 module.

- Speaker preset recall from OLED / Encoder. Plate amplifiers based on the APEX SMA-2 module and featuring an OLED screen and rotary encoder now permit manual recall of speaker presets.

Firmware V1.3.5S builds on important new features and workflow enhancements introduced in Firmware V1.3.4 – these are detailed below

New features in V1.3.4:

- Copy / paste channel parameters. Parameters can now be copied and pasted between CloudPower amplifier channels, providing major time saving for the integrator during configuration. A Copy button at the top of the IntelliCloud screen opens the new Copy Channel Parameters panel where the user can choose the source and destination channels and selects the parameters to be copied (Mixer, Gain, PEQ, Xover, Limiter, Preset).

- Front panel locking. A checkbox added to the Device panel in IntelliCloud prevents unwanted local operation of an amplifier by disabling the select function of its front panel rotary encoder. Status information will still be displayed on the OLED screen, but no parameters can be selected or edited. If the encoder is pressed the OLED will display the text: Screen Locked Unlock Via Browser and will show the unit's IP address and cloud address. Further refinements to front panel locking are planned for future firmware updates.

- Locate amplifier. A Locate button has been added to the IntelliCloud Device panel – when selected, a pin icon will be displayed on the OLED screen of the relevant amplifier for 15 seconds. This feature allows the integrator to quickly identify specific amplifiers in installations where multiple CloudPower units are present.

- RLY (Relay) / EN54. This feature has been disabled in firmware V1.3.5S and will be restored in a future firmware release.

- GPI (General Purpose Input) / EN54. The GPI pins on the CloudPower rear panel are now supported. Engaging the two pins will MUTE all channels. This will fulfil the amplifier MUTE requirement when integrated in an EN54 VACIE fire alarm system. After the GPI is disengaged, the mutes will return to their last known settings.

- STBY (Standby). The Standby pins on the CloudPower rear panel are now supported. Engaging the two pins will put the amplifier modules within the CloudPower unit into Standby mode, significantly reducing power consumption. The amplifier's DSP and controller continue running, allowing the CloudPower to pass audio within 3-4 seconds of disengaging Standby. Standby mode can be engaged via the IntelliCloud WebUI (Settings => Output) and can also be triggered remotely using UDP commands.

- Restore Audio Settings / Restore Default Settings

Two new options allow CloudPower units to be quickly reset from IntelliCloud. Note! Speakers should be disconnected before making a Restore action. The user will be warned and asked to confirm before the Restore occurs.

Restore Default Settings:

-All speaker presets will be erased
-All global audio presets will be erased
-Amplifier will return to default settings
-All settings will be cleared

-Cloud connect will be down

Restore Audio Settings:

-All speaker presets will be erased
-All global audio presets will be erased
-User settings will be cleared to default settings

Recall Preset (Audio) Snapshot

A UDP command now allows remote recall of a Global Device Audio Preset using a third-party touchscreen control system (e.g. Crestron / Q-SYS). Example applications could include reconfiguration of a venue's audio system for different scenarios, such as a bar playing background music during the day and hosting DJ performances in the evenings.

Improvements in V1.3.4:

- Default mixer input value. The default output level setting for amplifier channels has been changed from -10dB to 0dB, with Input 1 routed to Channel A, Input 2 to Channel B etc. This change improves the out-of-the-box experience for new users.

- Default limiter settings. When the amplifier is updated, the limiter is now set at the maximum for that preset by default. This addresses an issue with earlier CloudPower units where default limiter settings stored to the amplifier's internal memory caused some users to encounter unwanted limiting because they were unaware that limiting was already running.

Local firmware update progress display. A 6-stage display has been added to the front panel OLED screen to show the progress of firmware updates.

Delay values in ms or meters. Delay values can now be entered in either ms or meters via IntelliCloud, with the other parameter automatically updating accordingly.

Highlighting selected channel. The background color of the SELECT button on the currently selected amplifier channel will change to blue in IntelliCloud, making it easier to see at-a-glance which channel is being adjusted.

OEM Enhancements in V1.3.4

Third party control improvements. Additional fields have been added to the discovery packet used to identify devices on a network. These extra fields allow third party applications to differentiate between different amplifier types, e.g. if there are both APEX OEM and APEX CloudPower amplifiers on the same network.