APEX CloudPower Firmware / IntelliCloud WebUI Update

Release notes V1.3.4

Please note: 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:

- 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. The Relay pins on the CloudPower rear panel are now supported. When the amplifier is turned on and is functioning normally, the relay engages and a connection between the two pins is established. If the amplifier is turned off, or if a fault is detected, the relay opens and disengages the two pins. Connecting multiple amplifier relays in series allows system warning / fault indication through open circuit. This will fulfil the amplifier fault-warning requirement when integrated in an EN54 VACIE fire alarm system.

- 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:

- 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

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.