



Axia IP-Audio Driver

Release Notes for v2.4.8.12

3 October, 2007

Version 2.4.8.12 is the newest version of the Axia IP-Audio Driver, containing many upgrades and enhancements.

New and Updated Features:

- The OEM version of the IP-Audio Driver now supports up to 24 audio devices (16 was the limit in previous versions). The OEM driver may also be configured during installation to support a specified number of audio devices from 1 to 24.
- New audio metering, clipping and silence detection functions have been implemented through Livewire Routing Protocol.
- Livewire Advertisement Protocol Revision 2. In previous revisions source allocation did not work when Livewire Selection Window was opened, iPlay, iProbe or any other program which listens to advertisements. The new revision fixes source allocation issues when clients (Control Surfaces) also implement Livewire Advertisement Protocol Revision 2.
- Order of mixer lines on the recording side now display "Livewire In" first for compatibility with automation systems which are hard-coded to use the first line and expect it to be the default input for the recording. (Previous versions displayed "Playback Mix" first.)
- New features applied to the Advertisement Daemon (axiadvd):
 - -df option allows redirecting debug messages to a file rather than using ">" pipe; enhanced performance.
 - -spyrvcvbuf option allows setting a larger receive buffer for debugging.
 - Build changed to avoid interleaved records in a log file.
 - Byte order of 64-bit numbers in cmsg dump has been changed to match other outputs in the log to make analysis easier.
 - Implemented a log message that informs the user when a console tries to allocate a source already allocated by a different unit.
 - Formerly, entries in the debug log showed events only in GMT time. Timestamp now reflects local time zone settings.
- New "Source Allocation Status" window. This is a debugging tool for exclusive channel access allocation; Element consoles communicate this information to Axia drivers and nodes. The window can be displayed using the "Allocation" button on the driver's main configuration window, or by typing the following command into Windows' "Run" box:

```
rundll32 axiawow.cpl,SacStat
```

- "Statistics" window now has a "Clear jitter" button; maximum allowed recommended jitter value is now 30ms (instead of 50ms). Columns resized to eliminate horizontal window scrolling. Packet counting routines now reject packets with duplicate sequence numbers, and a column has been added to count duplicate packets.



- “Livewire Selector” window now shows only stereo and surround forward streams since advertised “backfeeds” for other stream types are not supported by other parts of the driver’s configuration UI.
- Added “Reset Counters” button to the “Statistics” window.

Bug Fixes:

- Installer now works properly when Windows Firewall service is disabled. Previous versions of the installer would stop with an error.
- Previously, the “Livewire Selector” window did not take advantage of the full Livewire advertisement request mechanism to allow quick source discovery. This capability is now fully implemented.
- Fixed byte order when displaying IP addresses in debug outputs of Axia Advertisement Daemon.
- Increased LWR command buffer size to cure configuration window crashes.
- Fixed height of device mode selection combo boxes; drop down list would not appear in previous versions.
- UI of GPIOVK module now works with updated Windows MFC functions to accurately communicate with the main window.
- In previous versions, updating the IP-Audio Driver sometimes left outdated GPIO Bridge Service components installed on the computer, causing GPIO performance slowdowns. This issue is fixed.
- Fixed a condition which could result in audio distortion if multiple audio streams starts and stops were executed without closing audio devices.
- Fixed a condition which caused Windows to emit audible stutter on Driver channels after stream playback was stopped if system jitter exceeded 30ms.