



Axia IP Intercom 1.2.7c update

14 October, 2011

Installation Procedure:

1. Download the axiaipcom_1_2_7c_r1.pkg file from the Axia website
2. Log into a rack mount intercom unit and select the "System Parameters" link.
3. Use the Browse button in the Firmware version section to find the file you downloaded in step 1. Once selected, the path and file will be loaded into the text field and the Apply button is used to load the version.

Firmware version:

Hardware revision:	Axia Intercom
<input checked="" type="radio"/> Bank 0	ver. 1.2.4a (build Mon Apr 5 13:02:55 EDT 2010)
<input type="radio"/> Bank 1	empty update: <input type="text"/> <input type="button" value="Browse..."/>

Warning: System will reboot after changing current bank.

4. The upload process can take up to 2 minutes and once complete the page will refresh showing the 1.2.7b version loaded into bank 1.
5. When ready to upgrade, select bank 1 radio button and press the Apply button. This will reboot the unit to the new code. The reboot process can take up to 1 minute. During this time the unit can not be operated.

For additional information, please consult the manual for the IP-Intercom that is found in the Support section of our web site at www.AxiaAudio.com/manuals .

Questions? Contact Axia Support at support@AxiaAudio.com or phone +1-216-241-7225.

Version 1.2.7c – Bug Fixes:

- WEB interface - corrected HTML syntax; "Tap to latch timeout" was not showing on some WEB browsers

Version History

Version 1.2.7b - New and Updated Features:

- Added PTT only, option to disable the latching. Added global parameter: Tap to latch timeout (0 - Push-To-Talk/no-latch, Default: 200ms)
- Button events logged in Syslog (Debug level)
- Tech info on the WEB UI
 - Intercom stations discovery table: <http://icred.local/pub/icd.txt>
 - Intercom stations static external sources table: <http://icred.local/pub/ics.txt>
 - Livewire sources (from the advertisement): <http://icred.local/pub/lwsrsrcs.txt>
 - Most recent Syslog messages: <http://icred.local/pub/log.txt>
- Rackmounts I/O management - option to completely disable each audio input
- High temperature Syslog Alert "too hot temperature xxC". Threshold 60degC. Message repeat in exponentially growing intervals: 8min, 16min, 32min and every 1h

Version 1.2.7b - Bug Fixes:

- IC.1: Fixed volume control and microphone mute

Version 1.2.7a - New and Updated Features:

- PTT only, option to disable the latching. Added global parameter: Tap to latch timeout (0 - Push-To-Talk/no-latch, Default: 200ms) (Issue #603)

Version 1.2.7a - Bug Fixes:

- Empty device name reported by LWRP/VER command (VER DEVN:"ipcom"). (Issue #602)

Version 1.2.6 - New and Updated Features:

- Button events logged in Syslog (Debug level)
- Tech info on the WEB UI
 - Intercom stations discovery table: <http://icred.local/pub/icd.txt>
 - Intercom stations static external sources table: <http://icred.local/pub/ics.txt>
 - Livewire sources (from the advertisement): <http://icred.local/pub/lwsrsrcs.txt>
 - Most recent Syslog messages: <http://icred.local/pub/log.txt>



Version 1.2.6 - Bug Fixes:

- Who called not releasing. Fixed sticky far drop indication occurring when call is received from a 3rd station during the indication period. (Bug #556)
- "Push to talk" registered as "tap to talk". Fixed processing of simultaneous multiple button events. (Bug #557)
- If the Alternate Label is blank, the calls originating from that station fail. (Bug #544)
- Enabled Ethernet controller reset after link negotiation. Allows to clear the Ethernet lock up by unplugging the Ethernet cable or resetting the port on the switch.
- iProbe does not recognize Intercom firmware packages (Bug #489)
- xsync process starts spinning in a busy loop usually within few hours after restart. It does not stop until device is rebooted. The condition causes: 1) Slower response from the unit to normal functions, as the xsync process consumes most of the CPU time. 2) Audio drop outs. Once the xsync is locked up, the SYNC LED may be showing full sync, but the PLL is not working. (Bug #468)
- Rackmounts WEB software update sometimes not working. (Bug #329) Workarounds for software update from the previous version:
 - Power cycle the node and do the software update
 - Telnet to the node and do: 'rm /var/log/messages /tmp/firmware.pkg'; do the WEB software update
- TALK/LISTEN control not working after connection was interrupted (Bug #323)
- Callstack unwanted auto answer. Second call made within 30s always goes through without required manual answer on the IC.20. (Bug #292)
- Zombie calls: Call would remain active on the far end, regardless it was dropped on the calling station. This was happening in case of very short calls (e.g. TALK tapped for <0.5), or when there were some processing delays. (Bug #274)
- Functional difference between the stand alone IC.01 and Element version. TALK button not working on Element filmcap module while the LISTEN is active. (Bug #241)
- Default hostname duplicate. Default hostname generated from device id and 6 last digits of the MAC address to assure uniqueness (example: ipcom803319). User never needs to change the hostname, unless he wants for some management purposes. In previous software versions, all stations had the same default hostname (ipcom), so manual configuration was required. (Bug #242)
- Source IP address of audio streams invalid. Source IP address of audio streams does not follow configured IP address. As a result source IP address in the packets was either 0 or previous address. (Bug #243)
- Slow call processing by rack mount stations. (Bug #244) Number of software improvements made:
 - Fixed cache configuration in uClinux setup. Only first half of the memory was cached.
 - Optimized address resolution: memory list lookup instead of reading /var/tmp/axiaicom-bonjour.tbl file.
 - Optimization turned on for icomd service build.
 - Event based SIP sockets receive instead of polling.
- IC discovery and signalling improvements. (Bug #248) Implemented recovery for the following situations:



- Station A calling Station B, before B discovered A (situation after system power cycle)
- Station A moved and B has outdated information about A
- Discovery process or name/address resolution of station A failed
- Invalid lookup table entries appeared after station A changed its IP address or station labels were swapped
- Call receiving Station B can learn all the properties of Station A originating the call from the call signaling process and update the lookup table accordingly.
- Performs address resolution at the time user tries to make a call to a station which had been looked up, but its hostname has not been resolved. This has been observed in case of Power Station/Engine service.
- Duplicate button control. (Bug #250) The line attributes were not cleared before reuse, so the GPIO remained assigned to IC-IC calls with no GPIO configured.
- Syslog: call activity, stations lookup (Bug #251)
- Calling back to the callback section. Station A (IC.1) calls station B (IC.20). A is not assigned to any of B's keys. Call is received on the callstack. A disconnects, B blinks indication that the call was dropped from the far end. During the drop indication period, A cannot call back (while the call should be accepted immediately within 1min of the previous disconnect). (Bug #254)

Version 1.2.5 - New and Updated Features:

- Rackmounts I/O management - option to completely disable each audio input
- High temperature Syslog Alert "too hot temperature xxC". Threshold 60degC. Message repeat in exponentially growing intervals: 8min, 16min, 32min and every 1h

Version 1.2.5 – Bug Fixes:

- GPIO setup: External sources Ui shows port names, not numbers. Those names come from default settings (uClinux: /etc/default/lwr.conf, Engine: /etc/Axia/default/icomid.default). Address of GPIO ports in external source definition were changed, so existing configuration needs to be manually fixed.
- Privacy level: Call to station with trigger priority higher by 2 is signalled rather than connected immediately.
- Fixed some startup condition problems. When intercom was called from another station, before it was discovered, IP address instead of label was used confusing call management.
- Fixed Syslog configuration (System WEB page)
- Fixed listen volume adjustment control with expansion unit keys