## RELEASE NOTE

**STL V03.06a**

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<thead>
<tr>
<th>Firmware name:</th>
<th>STLV03.06a</th>
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</thead>
<tbody>
<tr>
<td>Package name:</td>
<td>abcl_stl_v0306a_20160128</td>
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### Version overview:

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<tr>
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<th>File name</th>
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<td>Firmware</td>
<td>abclw.rom</td>
<td>VA1.14_20131015</td>
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<tr>
<td>WEB UI</td>
<td>abclapp.cob</td>
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<tr>
<td>FW Ext. 1</td>
<td>sg.bin</td>
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<td>Bootloader</td>
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1 Hardware Compatibility

This firmware is intended to run on the following devices:

• Exstreamer 100, 105, 110, 200, 205, 500, 1000, P5
• Annuncicom 60, 100, 155, 200, 1000, VME, PS1
• Instreamer 100
• IPAM 100, 102, 200, 300, 302

Note: The firmware may run on other Barix audio devices, however the functionality is not guaranteed.

2 New Features and Improvements

Compared to STL v.3.03 :

• Added feature #61.59, add QoS parameter in WEB UI network settings.
• Added feature #61.58, add CBR option for MP3 encoding.
• Added feature #61.62, add Bit Reservoir option for MP3 encoding.
3 Bugs Fixed In This Version

Compared to STL v.3.03:

- Fixed bug #61.52, changed appearance, to be conform to standard Barix look-and-feel.
- Fixed local loopback not working on encoding-only configurations.

Various corrections have been made to the audio module (song). The firmware v3.06a is a sub version of v3.06, containing only a new song module. This is a selection relevant for the IPAM102/302 based devices:

- Fixed error in initialization, which resulted in a potential data loss while decoding.
- Fixed error in AD mixing which could have caused reduced volume at the receiver.
- #053.80. Fixed audio dropouts in G711 24kHz.
- #053.88. Average buffer level on output now calculated over about 5 seconds rather than the 1-2 seconds in the previous version.
- A/D Gain in MPEG encoding working again (fixed in version STL FW v3.06a)
- occasional byte swap in encoded PCM L16 full-duplex (fixed in version STL FW v3.06a)
4 Other remarks and known issues

- Volume fading effect works only for connection start.

- Using the SPDIF inputs on Instreamer 100, and streaming a PCM, uLaw or aLaw stream, the optical channel is mandatory.

- Using the AES/EBU or SPDIF inputs, and streaming a PCM, uLaw or aLaw stream, the input signal sample rate and the WEB UI selected sample rate must match.

- Remote relay states on the WEB UI index page, related to remote devices that have not any digital inputs, can be inconsistent.

- Using a full-duplex configuration, and 48Khz PCM stereo as audio format, some audio holes can be audible reloading the WEB UI “configuration” and “application status” pages of the decoding side.

- Using a full-duplex configuration, 16Khz or 48Khz PCM stereo, on devices with hardware modules rev.2 only (IPAM102), in some particular circumstances a muted audio output is possible. Rebooting the device should solve the issue.

- In ABCL firmware MP3 in 16 and 32 kHz are distorted when A/D Gain is not “-3”.

5 Release generating details

5.1 CVS release tag

abcl_stl306_ref301

5.2 Compile commands:

make ab_stl

1 This information is intended for BARIX developers only
6 Legal Information

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