# RELEASE NOTE

## ABCL V1.21

<table>
<thead>
<tr>
<th>Firmware name:</th>
<th>ABCL V1.21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Released:</td>
<td>19\textsuperscript{th} Oct 2017</td>
</tr>
<tr>
<td>Package name:</td>
<td>abcl_kit_v0121_20171019</td>
</tr>
</tbody>
</table>

### Version overview:

<table>
<thead>
<tr>
<th>Type</th>
<th>File name</th>
<th>Version Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firmware</td>
<td>Abclw.rom</td>
<td>V01.21_20171019</td>
</tr>
<tr>
<td>WEB UI</td>
<td>Abclapp.cob</td>
<td>V02.07_20140820</td>
</tr>
<tr>
<td>FW Ext. 1</td>
<td>Sg.bin</td>
<td>V10.18_20171019</td>
</tr>
<tr>
<td>FW Ext. 2</td>
<td>Fs.bin</td>
<td>V02.08_20140820</td>
</tr>
<tr>
<td>FW Ext. 3</td>
<td>Bclio.bin</td>
<td>V02.06_20151028</td>
</tr>
<tr>
<td>Bootloader</td>
<td>UNIFULL.UPB</td>
<td>V99.28_20160224</td>
</tr>
</tbody>
</table>

© 2017 Barix AG, all rights reserved. All information is subject to change without notice. All mentioned trademarks belong to their respective owners and are used for reference only.
1 Hardware Compatibility

This firmware is intended to run on the following devices:

- Exstreamer 100, 105, 110, 120, 200, 205, 500, 1000, P5
- Annunciocom 60, 100, 155, 200, 1000, PS1, PS16
- Instreamer 100, Instreamer (new)
- IPAM 100, 101, 102, 200, 300, 301, 302
2 Bugs Fixed In This Version

The following bugs have been fixed in the ABCL V1.21 (compared to version V1.18):

• #SONG-1: Fixed corrupted audio encoding for 16 and 32 kHz, and updated the VLSI DSP FW (vs1063.bin) to the latest version.
3 Improvements In This Version

The following improvements have been done in the ABCL V1.21 (compared to version V1.18):

- Added support for more the latest Barix products to the Barix Audio SNMP MIB file, and updated the Barix Discovery tool to v0.24 to recognize them.
4 Known Bugs/Restrictions

4.1 IPAM 101

- Sampling frequencies 44.1kHz, 22.05kHz and 11.025kHz not supported in encoding-only and full duplex modes
- Input peak level indication copies left → right if mono encoding is selected
- Mono line input settings (copy signal from left channel to the right channel) not supported in combination with stereo encoding
- Significantly higher minimum decoding latency than IPAM 100

4.2 IPAM 102

- Sampling frequencies 44.1kHz, 22.05kHz and 11.025kHz supported in encoding only, but not in full duplex
- Input peak level indication copies left → right if mono encoding is selected
- MP3 encoder: CRC, copyright and original/copy setting not configurable
- encoding loopback (monitoring) volume not configurable
- encoding loopback 7dB weaker than IPAM 100
- 2dB output signal difference between IPAM 102 and IPAM 100 (IPAM102 weaker)
- When downgrading from ABCL firmware kit v1.21 to v1.18 (or from Song module 1.18 to 1.15 or 1.14 then device needs manual reboot (power OFF/ON). No problems when upgrading firmwares.
# References

<table>
<thead>
<tr>
<th>Document</th>
</tr>
</thead>
</table>
6 Legal Information

© 2017 Barix AG, Zurich, Switzerland.

All rights reserved.

All information is subject to change without notice.

All mentioned trademarks belong to their respective owners and are used for reference only.

Barix and ABCL are trademarks of Barix AG, Switzerland and are registered in certain countries.

For information about our devices and the latest version of this manual please visit www.barix.com.

Barix AG
Ringstrasse 15a
8600 Dübendorf
SWITZERLAND

T +41 43 433 22 11
F +41 44 274 28 49

www.barix.com
sales@barix.com
support@barix.com