



Release Note

FTP MP3 V00.73

Firmware name:	FTP MP3 V00.73		
Released:	19. Jul. 2010		
Package name:	abcl_ftmp3_XXXX_v0073_20100719		
Version overview:	Type	File name	Version Date
	Firmware	abclw.rom	VA0.33_20100603
	WEB UI	abclapp.cob	V01.13_20100602
	FW Ext. 1	sg.bin	V08.10_20100719
	FW Ext. 2	fs.bin	VA2.05_20100113
	FW Ext. 3	bclio.bin	V01.14_20100421
	Bootloader	exfull.spb	V99.16_20100708
	ES Module	esnd.rom	V00.05_20091230

I Hardware Compatibility

This firmware is intended to run on the following devices:

- Exstreamer 100, 110, 200, 1000
- IPAM 100, 200, 300

Note: The firmware can run on any other Barix audio devices (e.g. Annunicom, Exstreamer Digital), however the functionality is not guaranteed.

2 New Features and Improvements

The following new features and improvements have been implemented in the FTP MP3 V00.73 (compared to the last released 00.71):

- Upgrade to BCL1.4 interpreter running the BCL code from flash thus releasing more RAM for the application;
- Upgrade to song module v8.10;
- Upgrade to bootloader v99.16 for up to 10 times faster HTTP upload speeds¹;
- Updated the LINK command to work for audio playback also when reading from USB file handles.
- Improved look and functionality of the volume control slider on the web UI;
- Added EEPROM setting to switch between % and dB units for volume control;
- Disabling the playback of corrupted playlists.

¹ To be able to upgrade to the new bootlader, a serial update should be performed. Loading only the compound.bin using the web update will not change the bootloader. If serial uppdate is not possible, the bootloader may be ubgraded by uploading

3 Removed Features

The following features have been removed (discontinued) starting from VA071, are valid also for V073:

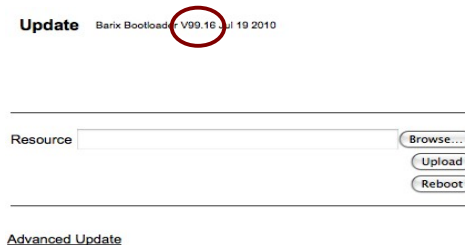
- Receiving audio messages using the priority port is not possible anymore. The relevant configuration parameters (*PRIORITY_PORT*, *PRIORITY_VOLUME*, *PRIORITY_BUFFER*) are not supported anymore.

4 Bugs Fixed In This Version

- Bug 056.64: The device will endlessly reboot if booted without USB stick and the FW presets use HTTP to download the config file;
- Bug 056.66: The music playback is disturbed when loading the directory listing from the web browser
- Bug 056.67: Volume not correctly updated when using %;
- Bug 056.68: When the playlist is changed, the new playlist does not interrupt the current song of the old playlist;
- Bug 056.69: In shuffle mode, the first song, and sometimes the second song are always played, all the rest are random;
- Bug 056.70: Shuffle always starts with the same sequence of songs when the player is started without network connection;
- Bug 056.71: Device hangs after some days of activity;
- Bug 056.72: The audio playback is disturbed while downloading files even when the new LINK command is used for MP3 decoding.

5 Other remarks and known issues

- To be able to upgrade to the new bootlader, a serial update should be performed. Loading only the **compound.bin** using the web update will **NOT** change the bootlader. If serial update is not possible, the bootlader may be upgraded by uploading the **unifull.spb** file to WEB9 web page using the advanced web update. In this case the new bootlader will be updated during the next boot. However, this will destroy the BCL application, so it is advised to do the bootlader update **BEFORE** uploading the **compound.bin** file. If you have already updated the **compound.bin** file, you need to reflash it again after the bootlader update. After that boot the device, and go to the web update page again. You should see the new version there:



- In spite of the improved USB read performance, the playback may still be disturbed when there is a parallel USB disk access (for example downloading files and/or requesting the directory listing while playing a song at the same time), and the used MP3 bitrate is too high. In this case the following actions may help to avoid this:
 - Try to avoid using bitrates higher than 144 kbits/second in the MP3 files;
 - If using FAT32, increase the cluster size (for example use 32k instead of the default 4k) when formatting the USB stick

6 Release generating details²

6.1 CVS release tag

```
abcl_ftmp3_v0073_2010719
```

6.2 Compile commands:

```
make ab_ftmp3_xxxx NOBAS_IN_COB=I
```

where xxxx is the release which needs customised settings

6.3 Regenerating FW image

The source code of the FTP_MP3 application is too big in size, and cannot fit into the COB file together with the tokenized BCL code. The generated release already has the source code stripped out of the FW image. However, if for some reason manual rebuild of the FW is needed, then the applications.sh script has to be run with the **-no_source** option to regenerate the applications.cob file:

```
./applications.sh -no_source
```

² This information is intended for BARIX developers only

7 Legal Information

© 2009 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 FTP MP3 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
Seefeldstrasse 303
8008 Zürich
SWITZERLAND

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

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

