

RELEASE NOTE

Firmware name:	ICPAGING V01.10			
Released:	31. Jan. 2013			
Package name:	abcl_icpaging_va110_20130131			
Version overview:	Type	File name	Flash Target	Version_Date
	Firmware	abclw.rom	8K	VB1.09_20121023
	WEB UI	abclapp.cob	WEB4	V02.02_20120601
	FW Ext. 1	sg.bin	WEB2	V09.23_20121017
	FW Ext. 2	fs.bin	WEB1	V02.06_20110322
	FW Ext. 3	bclio.bin	WEB9	V01.23_20120329
	Bootloader	UNIFULL.SPB	serial only	V99.26_20120223

1 Hardware Compatibility

This firmware is intended to run on the following devices:

- ICCLIENT - Exstreamer 100, 105, 110, 200, 205, 500, 1000, Annunicom 100/200, Annunicom PS1, Annunicom 60
- ICMASTER – Annunicom PS16 and PS1 and Annunicom 100/200 with limited functionality

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

2 New Features and Improvements

New features (compared to IcPaging 1.08)

- Added new Acoustic Echo Cancellation feature, configurable as option.
- Separated PAGING/IC, BGM, and notification volumes.
- Tuned rtp delay on vlsi1053.
- #110.21 PS16 keyboard / functionality changes.
- added payload/codec/delay detection for notification messages.
- added BGM state on web UI.
- added NOTIFICATION state on web UI.

3 Bugs Fixed In This Version

Bug fixes, (compared to IcPaging 1.08)

- on Master, fixed incorrect custom message delivery timing.
- on Master, added "Selected Group" messages for PS16 lcd.
- on Client, fixed issue #109.01, added mechanism to exit HD TX if master crash.
- on Client, fixed non properly working channel 0 (local line input).
- fixed #110.07, incorrect paging payload type.
- fixed #110.16, added BARP flags for extended timeout checks.
- fixed #110.14, hands free mode, paging not closed re-pressing button 1.
- fixed issue on gp6map\$, typo error, was gp5map\$ on stp load.
- fixed ICG not able to start spontaneous intercom.
- fixed client timeout to idle when in HD TX (ICG is in intercom RX).
- fixed #110.16, added BARP flags for extended timeout checks.
- fixed #110,17, application receive and play multiple streams.
- fixed BGM audible when switching back to low priority page.
- fixed BGM not starting on local channel at

first boot.

- fixed relay not closed while receiving paging.
- fixed #110.02 false call starts on Annunicom 200.

4 Other remarks and known issues

1. Interrupting established intercom call by a paging message is still not possible, even if the paging message has a higher priority than the current call. However, sending non BARP emergency message at the defined emergency has the highest possible priority, and works in all cases;
2. RTP priority message must be sent with the same codec as preconfigured on all devices, otherwise it will not work;
3. It is highly recommended to set the masters to send the paging messages to a multicast group with port different than the configured BARP audio port to avoid reception of 2 audio streams on the same port (which may happen for example in the case of established intercom call, and an ongoing paging message when the master is using the default BARP audio port for paging);
4. Using the factory defaults button on the webs interface will switch the default ETH port to 1 on PS16 which may render it unreachable if ETH2 port was used before. In this case move the LAN cable to ETH1, connect a power adapter (if PS16 was using the POE from ETH2 before), set the ETH port to 2, apply the changes, and move the LAN cable back to ETH2;
5. On devices equipped with IPAM IPAM 102 (ID 2) module types, using BGM channel 0 (local line input), BGM volume cannot be changed through VSC.
6. The features related to the USB stick (like station specific ring tones, unattended mode, custom and unattended message recording) cannot be used when ICMaster is run on PS1.

5 Reverting to factory defaults at boot

This feature has been added as a software replacement for the missing reset button in PS16 stations.

In some cases (forgot web UI password, loading corrupted FW image, etc.) the access to the web UI may be lost. In such a situation the only possible recovery solution on the BARIX devices is to press and hold the reset button while powered on. The device will revert to factory defaults, and reboot. However, since PS16 stations do not have HW reset button. In this case follow the procedure below to revert to factory defaults:

- Press and hold key 1 (lower left) at startup. A message will appear on the display asking you to confirm;
- To confirm press key 16 (upper right) within 3 seconds, without releasing key 1, otherwise the unit will continue booting normally;
- After confirming and releasing all keys, the factory defaults are restored and the unit reboots. Listen to the SonicIP and note down the IP address.
- Open the web page at the announced IP address, and change the application from "iclient" to "imaster". Click "Apply to reboot.
- After reboot, reconfigure the imaster as it was before.

6 Changing the default application

This release contains several compound.bin files in the update_rescue directory. If for deployment purpose, or any other reason you need a binary with the needed default application already preconfigured, use the one from the table below:

<i>File name</i>	<i>Description</i>
compound.bin	This is the default compound.bin file for the ABCL package, default application is ICMaster.
compound_master.bin	Compound.bin file with ICMaster set as default application. In fact, this binary is the same as the default compound.bin file.
compound_client.bin	Compound.bin file with ICClient set as default application.

7 Release generating details¹

7.1 CVS release tag

```
abcl_icpaging_va110_20130131
```

7.2 Compile commands:

```
make ab_icpaging
```

7.3 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
```

¹ This information is intended for BARIX developers only

8 Legal Information

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