



# Release Note

## Streaming Client V2.10

<b>Firmware name:</b>	Streaming Client V2.10		
<b>Released:</b>	13. Aug. 2009		
<b>Package name:</b>	streaming_client_updatekit_v0210_20090813		
<b>Version overview:</b>	<b>Type</b>	<b>File name</b>	<b>Version Date</b>
	Firmware	stream.rom	V02.10_20090813
	WEB UI	streamapp.cob	V03.02_20
	SonicIP	sonicip.cob	V01.04_20070625
	FW Ext. 1	sg.bin	V07.03_20090813
	FW Ext. 2	fs.bin	V01.18_20090813
	FW Ext. 3	bclo.bin	V01.05_20090813
	Bootloader	unifull.spb	V99.13_20090327

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# I Hardware Compatibility

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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.

AAC+ decoding is available only on IPAM 300 based hardware (Exstreamer 100, 110 and 200 labeled “AAC+ capable”).

## 2 New Features

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Besides many bugfixes the following new features have been implemented in the Streaming Client v2.10 (compared to version 2.07):

- new WEB UI design with runtime status and control buttons
- enabled AES output on Ex1000 in uncompressed mode
- support for 4 relays (Exstreamer 1000 HW)
- Exstreamer 1000: relay state displayed on the front panel LEDs
- #026.16: audio peak levels on the UI
- #026.60: support for uncompressed formats in RTP
- #052.09: MAC address identification in BRTP requests
- #052.10: configurable relay control by the sender in RTP and Shoutcast
- #052.07: added priority message volume
- #052.22: serial command interface
- #052.23: factory defaults on the WEB UI or as a command (c=94)
- #052.29: added minimum and maximum volume
- #052.30: timestamp of the last error

## 3 Bugs Fixed In This Version

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- #053.03: RTP decoder: frequent dropouts at sequence start at 48kHz PCM stereo
- #026.78: Stream number / error corruptions in SC status page
- #052.17: FW hangs when HTTP Proxy is a URL and not an IP
- #052.35: setting a password resets the unit
- #063.07: workaround for a bug in the USB Controller causing sudden hang-up
- #051.04: fixed IGMP incorrect checksum calculation (CRM BX2119)
- #063.04: USB error handling changed: DMA error bails out immediately without a retry - this makes Sony M2 USB stick to work
- corrected broken FS date in the version information
- reset via button causing noise on Ex1000 when playing PCM
- USB: removed extra reset recovery at startup, which was making some device to not work

## 4 Known Bugs

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- #052.38: After switching from network to backup USB, wrong metadata information is shown on the display.
- #052.45: serial settings “data bits”, “parity” and “stop bits” can not be changed from the default values 8N1
- #052.46: no SNMP traps sent at all

## 5 Major Modifications

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### 5.1 WEB UI

The UI has been completely re-designed. A home page displaying runtime parameters and containing a control panel has been added. The configuration has been split into Basic and Advanced settings for user's convenience. Further, in Advanced settings the configuration parameters has been grouped to sections by function (similar to e.g. Instreamer or Exstreamer). Factory Defaults button has been added to the WEB UI.

The method of MIME type storage in the WEB server has been changed.

#### **IMPORTANT:**

This change is incompatible with the previous versions of the WEB UI and requires WEB UI version 03.02 or higher. Do not mix Firmware 02.10 with an older version of the WEB UI.

A new file `mimetype.ini` containing the MIME types has been added (for more details please refer to the Streaming Client Technical Documentation). If you create your own WEB UI the `mimetype.ini` contained in the rescue kit must be kept empty.

If you use a special (e.g. embedded) HTTP client to interface the Streaming Client, please note that the Content-Length option and IBM437 charset option in dynamic HTML have been removed in this version for space reasons.

## 5.2 Streaming

The default URL values have been changed to:

URL1: rtp://0.0.0.0:4444

URL2: http://www.barix.com/radio.m3u

URL3: playlist.m3u

A new parameter volume setting for the priority message has been introduced. A priority message is always played at the fix-configured volume level to avoid a loss of the potentially important message (emergency) in case the volume is set too low by the user.

Two new parameters minimum and maximum volume have been introduced to control the range where user volume can be set. This way e.g. ear protection can be implemented.

### **WARNING: FOR UPDATE FROM PREVIOUS VERSIONS**

The Setup storage for the Maximum Volume parameter in previous versions of the Streaming Client contained the value 0. In case of a WEB Update or Remote Update from a previous version of the Streaming Client the Maximum Volume will be therefore set to 0. For a proper operation it is needed to set the Maximum Volume to 100%. Otherwise it will not be possible to set the actual volume to other value than 0.

#### **For WEB Update:**

Perform Factory Defaults or set the Maximum Volume to 100% after the update.

#### **For Remote Update:**

Add the line "max\_volume=20" to your `update.txt` file on the server.

## 5.3 Command interface

The command API (as available on the HTTP command interface `rc.cgi`) is now available on the serial port.

A new API command “`c=94`” for reverting to factory defaults has been added.

## 5.4 Setup

The Setup configuration field for relayI has changed from **B274** to **B252**. This can affect your custom `config.bin` file or your custom WEB UI.

## 5.5 Remote Management

The MTELL interface has been renamed to Barimon. The respective Remote Update parameters in `update.ini` has been kept for backwards compatibility, however it is recommended to use the new parameters as follows:

Parameter name in v2.07	Parameter name in v2.10	Setup reference
<code>mtell_url</code>	<code>barimon_url</code>	S1200
<code>udp_mtell_port</code>	<code>udp_reporting_port</code>	W684
<code>mtell_period</code>	<code>barimon_period</code>	W692

## 6 References

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	Document
[1]	<a href="#">Streaming Client Technical Documentation V02.10</a>
[2]	<a href="#">Streaming Client WEB Page</a>
[3]	<a href="#">Streaming Client Update Kit V02.10</a>

## 7 Legal Information

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