

# Release Note

## Streaming Client V3.05

<b>Firmware name:</b>	Streaming Client V3.05		
<b>Released:</b>	21st September 2012		
<b>Package name:</b>	streaming_client_kit_v0305_20120921.zip		
<b>Version overview:</b>	<b>Type</b>	<b>File name</b>	<b>Version Date</b>
	Firmware	stream.rom	V03.05_20120921
	WEB UI	streamapp.cob	V04.14_20120921
	FW Ext. 1	sg.bin	V09.21_20120918
	FW Ext. 2	fs.bin	V02.06_20110322
	FW Ext. 3	bclio.bin	V01.23_20120329
	Bootloader	unifull.spb	V99.26_20120223

# 1 Hardware Compatibility

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This firmware is intended to run on the following devices:

- Exstreamer 100, 105, 110, 120, 200, 205, 500, 1000
- Exstreamer P5
- IPAM 100, 101, 102, 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, 105, 110, 120, 200 and 205 labelled “AAC+ capable”).

**Please note that the Remote Firmware Update feature is supported only on devices with 2MB of Flash memory.**

## 2 New Features

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The following features have been implemented in the Streaming Client v3.05 (compared to version 2.29):

- #53.51: support for 16kHz RTP/G.722 audio format (payload type 9)
- #53.54: RTP decoder synchronisation relaxed from +/-0.6 frame to +/-1.5frame
- #100.18: configurable audio buffer size
- #100.32: detection of file extensions .mp1 and .mp2 for MPEG layer I and II file playback
- #100.34: display IPAM type on status page
- #100.44: remote firmware update disabled on 1MB devices
- support for IPAM 101/102 based devices
- reduced RTP decoding latency on IPAM 102

### **3 Bugs Fixed In This Version**

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The following bugs have been fixed in the Streaming Client v3.05 (compared to version 2.29):

- #53.62: no audio played on IPAM 102 devices
- #100.16: certain MP3 files do not play from USB due to wrong format detection
- #100.33: removed noise appearing sometimes at the beginning of priority message

## 4 Known Limitations

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- I/O over RTP (contact closures sent by the Instreamer) are not 100% in sync with audio, the audio buffer is not respected

### 4.1 Volume Source Control

The Volume Source Control panel (VSC) uses a serial polling protocol to transfer data between the Barix unit and the VSC. This protocol causes additional load, which on some devices may cause audio dropouts while playing very high bitrate audio.

# 5 Major Modifications

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## 5.1 IPAM 101/102 support

Since major version 3 Streaming Client supports Barix devices based on IPAM 101/102.

## 5.2 Remote Firmware Update

The overall size of the package has exceeded 512kB and therefore :

**Please note that the Remote Firmware Update feature is supported only on devices with 2MB of Flash memory.**

Availability of the remote-update feature is now displayed on the Status page of the device together with the Flash memory size.

Extra device information is sent in the HTTP request for the update file:

- hardware type
- IPAM type
- flash memory size
- MAC address

See the Technical Documentation for more details.

## 5.3 Configurable audio buffer size

Device's audio buffer can be configured in three steps: *high* (default, as before), *medium* and *low*. This allows to reduce latency in decoding certain streams, e.g. Icecast version 2.

## 6 References

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	Document
[1]	Streaming Client Technical Documentation V03.05
[2]	<a href="#">Streaming Client WEB Page</a>
[3]	Streaming Client Update Kit V03.05

## 7 Legal Information

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