

# RELEASE NOTE

## Streaming Client V3.19

<b>Firmware name:</b>	Streaming Client V3.19		
<b>Released:</b>	14 <sup>th</sup> October 2019		
<b>Package name:</b>	streaming_client_v0319_20191014.zip		
<b>Version overview:</b>	<i>Type</i>	<i>File Name</i>	<i>Version/Date</i>
	Firmware	stream.rom	V03.19 20191014
	WEB UI	streamapp.cob	V04.17 20190728
	FW Ext. 1	sg.bin	V10.18 20171019
	FW Ext. 2	fs.bin	V02.08 20140820
	FW Ext. 3	bclio.bin	V02.06 20151028
	Update mod.	rupdate.bin	V01.01 20141124
	Bootloader	unifull.spb	V99.28 20160624

# 1 Hardware Compatibility

This firmware is intended to run on the following devices:

- Exstreamer 100, 105, 110, 120, 200, 205, 500, 1000
- Exstreamer P5
- IPAM 100, 102, 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, IPAM 302 and IPAM 102 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 Bugs Fixed In This Version

The following bugs have been fixed in the Streaming Client V3.19 since the last officially released version V3.17.

- #SC-294: TCP Library reordering fix
- fix memory leak in HTTP redirect (appeared during remote update and content update)
- #SC-282 rework XSS vulnerability fix to fix device crash on lack of buffers. XSS vulnerability is now fixed also in &LState(1); does not escape HTML special characters on command interfaces

## **3 Known Bugs/Restrictions**

### **3.1 Contact closures in RTP**

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

### **3.2 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.

### **3.3 Removed XSS fix for command ports**

The XSS vulnerability fix which was added in firmware version 3.16 had affected all command interfaces. This is now corrected, now it works only on the HTTP/CGI interface and is removed from the serial/TCP/UDP control interface. That means here is no backward compatibility on these functions.

## 4 References

	Document
[1]	Streaming Client Technical Documentation 3.17

## 5 Legal Information

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