

RELEASE NOTE

Streaming Client V3.15

Firmware name:	Streaming Client V3.15		
Released:	14th. January 2016		
Package name:	streaming_client_v0315_20160114.zip		
Version overview:	Type	File name	Version Date
	Firmware	stream.rom	V03.15_20160114
	WEB UI	streamapp.cob	V04.16_20160108
	FW Ext. 1	sg.bin	V10.13_20160113
	FW Ext. 2	fs.bin	V02.08_20140820
	FW Ext. 3	bclo.bin	V02.06_20151028
	Update mod.	rupdate.bin	V01.01_20141124

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 New Features

The following new features have been added to the Streaming Client V3.15 since version V3.14.

- #100.27: relay control via the R= command
- #100.73: SNMP RO community added into update.ini
- #100.76: audio output levels (linear) added to SNMP MIB: barix.systems.audio.exstreaming.levels
- added support for OEM_362 hardware
- added support for new LCD on PS16

3 Bugs Fixed In This Version

The following bugs have been fixed in the Streaming Client V3.15 since version V3.14.

- #100.51: SNMP audio channel states now return correct values "0 silence", "1 running", "2 high"
- #100.59: help text correction of "Relay Output" controlled by "Stream"
- corrected wrong relay control values for relays 7 and 8 on the web UI
- fixed non-working amplifier control on P5 and OEM362 devices

4 Known Bugs/Restrictions

- Remote content update only working first time after reboot, no periodically Content update. Remote Config update is not affected from this limitation.

4.1 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.

4.2 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.

5 Major Modifications

5.1 Output audio levels in SNMP

Since this version output audio levels can be monitored via SNMP in two ways.

Audio states

The audio state can be monitored via

- *enterprises.barix(17491).systems(2).audio(1).states(1).audioStateLeft(1)*
- *enterprises.barix(17491).systems(2).audio(1).states(1).audioStateLeft(2)*

The state of an audio channel can be:

- 0 = **silence**, i.e. level ≤ -90 dB FS
- 1 = **running**
- 2 = **high**, i.e. level ≥ -3 dB FS

Audio levels

The current audio level values can be directly monitored via SNMP:

- *enterprises.barix(17491).systems(2).audio(1).exstreaming(3).levels(8).audioOutputLevelLeft(1)* and
- *enterprises.barix(17491).systems(2).audio(1).exstreaming(3).levels(8).audioOutputLevelLeft(2)*

The levels are indicated as a linear value 0 (silence) to 32767 (full scale).

5.2 Relay control via a command

Hardware relays can be now controlled via a command. To enable this feature a new option “Command” has been added to the Web UI: *Configuration -> Advanced Settings -> I/O -> Control Output*

Relays configured with this option can be controlled by issuing the command $R=value$, where the *value* is a 16-bit mask controlling every individual relay. The bit value 0 means relay inactive (open), the bit value 1 means relay active (closed).

6 References

	Document
[1]	Streaming Client Technical Documentation 3.15

7 Legal Information

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