



Packet Ship *Streamline* Media Server

Release Note 3.1 “Antigua” Update 6

Package	Version	Revision
ps-streamd	3.1.6	1
ps-index-mpeg2ts	3.1.6	1
ps-analyse-mpeg2ts	3.1.2	1



Release Note

The 3.1 “Antigua” Update 6 release of the Packet Ship Streamline media server contains the following changes:

- Debian packages for both Debian 5 and Debian 6
- Fix near-live streaming of from Timeline in RTSP
- Fix bug in PAT parsing in indexer introduced in 3.1.5
- Ignore irrelevant PMTs with wrong program IDs
- Fix parsing of AUD/SPS/PPS/SEI in encrypted stream
- Handle H.264 streams with no Recovery Points or IDR slices
- Fix problem with sparse NPT data in indexes for certain H.264 encodings
- Change Content-Type returned for HLS

Debian versions

The .deb release packages are now built both for Debian 5 (Lenny) and Debian 6 (Squeeze), in deb5-32, deb5-64 and deb6-32, deb6-64 directories, respectively. The .rpm packages are still only built for Centos 5.

Fix near-live streaming in RTSP

RTSP streaming of a near-live stream from a Timeline recording was broken because the playlist was never reloaded. This has been fixed.

Fix bug in PAT parsing

The fix for empty PATs introduced in 3.1.5 could result in mis-parsing of the PAT in some circumstances, rendering the indexer unable to find the correct video stream. This has been fixed.

Ignore irrelevant PMT

PMTs on the PMT PID defined in the PAT but which are not for the expected program ID would confuse the indexer. Now only the PMT with the program number defined in the PAT is used.

Fix parsing of AUD/SPS/PPS/SEI in encrypted stream

In certain circumstances parsing of SEI and other structural units within an encrypted stream could cause pathologically slow performance in the indexer and missed frames. This has been fixed.



Handle H.264 streams with no Recovery Points or IDR slices

Some H.264 encodings which could be indexed in the 2.3.x indexer failed to index in 3.1.x because of a tightening of the frame detection algorithm which now requires either SEI Recovery Points or slices to be marked as IDR. This left the previous 3.1 indexer unable to find any frames in some odd encodings with neither feature. The 2.3.x heuristic (essentially picking runs of ref_idc slices following an SPS) has now been reinstated as a fallback position.

Sparse NPTs in indexes

H.264 encodings where an Access Unit Delimiter appeared immediately after an I-frame end, in the same TS packet, could result in following NPT values being missed and hence the indexes only having sparse NPT markers. This would result in problems in seeking. This has now been fixed.

Change of Content-Type in HLS

Some clients did not recognise the 'compatibility' Content-Type “audio/mpegurl” for an HLS playlist. The server now returns the Content-Type “application/vnd.apple.mpegurl” which fixes this.