

Tvheadend - Bug #388

IPTV Imagenio Spain - > epoll_wait = 1

2011-02-27 20:35 - Phill Lavender

Status:	Fixed	Start date:	2011-02-27
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	IPTV	Estimated time:	0.00 hour
Target version:	2.13	Affected Versions:	
Found in version:			
Description			
<p>Looks like there's something stopping TVheadend processing streams (UDP, RTP) from Imagenio in Spain. - latest GITs. - Trying my best to isolate it, but not really a coder so appreciate the assistance.</p> <p>Attached Wireshark log shows TVheadend is bound to the multicast group (239.0.0.74:8208) and receiving UDP. (User data appears to start the TS header at byte 47, which I think is a little odd given the RTP v2 header is 16 bytes? , haven't got much further with that yet though.)</p> <p>based on the above monitoring the Epoll_wait() function in iptv_input.c each packet returns a int value of 1 (?) so ends up in a continuous loop.</p> <pre>--- while(1) { nfds = epoll_wait(iptv_epollfd, &ev, 1, 1); if(nfds == 1) { tvhlog(LOG_ERR, "IPTV", "epoll() error %s, sleeping 1 second", strerror(errno)); sleep(1); continue; } // tvhlog(LOG_INFO, "IPTV", "\"%d\" epoll() events", nfds); // bad logging... } if(nfds < 1) continue;</pre>			

History

#1 - 2011-03-01 17:44 - Phill Lavender

Ok. I can't read C ! It doesn't get stuck in a loop that's what the continue means re-loop.

Real issue here is setting the size of the hlen for the RTP packet, 0x90 is the first byte of a RTP v2 packet.

```
int hlen = (tsb0 & 0xf) * 4 + 12;
```

So tsb⁰ is 0x90 'bitwise and' with 0xf = 0x00. * 4 + 12 = 12 so the header is set for 12 bytes, however the header on the attached logs is 28 bytes. Hence it's not getting parsed into the TS packets correctly.

Phill

#2 - 2011-03-01 21:01 - Andreas Smas

Hi

Thanks for a good bug report (which capture and everything)

This is hopefully committed in [98975cf4](#)

#3 - 2011-03-01 21:02 - Andreas Smas

- Status changed from New to Fixed

- Target version set to 2.13

#4 - 2011-03-03 14:40 - Phill Lavender

Hi Andreas,

Checked your fix, your missing 4 bytes from the example RTP header I provided in the Wireshark log.

--fix --

```
if(tsb[0] & 0x10) {
    // Extension (X bit) == true

if(r < hlen + 4)
    continue; // Packet size < hlen + extension header

// Skip over extension header (last 2 bytes of header is length)
hlen += ((tsb[hlen + 2] << 8) | tsb[hlen + 3]) * 4;

tvhlog(LOG_DEBUG, "IPTV", "\"%d\":RTP Header Length", hlen); // test logging
```

---- Proof---

```
[DEBUG]:IPTV: "24":RTP Header Length
[DEBUG]:IPTV: "24":RTP Header Length
[DEBUG]:IPTV: "24":RTP Header Length
etc
```

I added (+4) to the end of the last line and it works fine. i.e;

```
hlen += ((tsb[hlen + 2] << 8) | tsb[hlen + 3]) * 4 + 4 // Don't think this is really the right way to do it though.
```

Phill

#5 - 2011-09-10 16:52 - Phill Lavender

pull request #40 -

Added Extension Header Length (4 bytes) which isn't included in the EHL field in the Header

Once accepted hopefully closed

Files

capture1	2.16 MB	2011-02-27	Phill Lavender
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