Tvheadend - Feature #4750

Feature # 4477 (Fixed): Hardware CI Digital Devices DDCI2

DDCI2 - implement multi-transport-stream-decoding (MTD)

2017-11-29 17:30 - Jaroslav Kysela

Status:	Accepted	**Start date:**	2017-11-29
Priority:	Normal	**Due date:**	
Assignee:	Jaroslav Kysela	**% Done:**	0%
Category:	Descrambling	**Estimated time:**	0.00 hour
Target version:	4.6		

Description

DDCI2 (and maybe other / future CAMs) supports the decoding for multiple services on different transport streams.

MTD descrambling is a bit 'abuse' of the standard CAM mechanism. It requires PID remapping, proper CAT PID mangling and SID mangling.

The VDR has more-or-less complete implementation:

https://projects.vdr-developer.org/git/vdr.git/tree/mtd.h
https://projects.vdr-developer.org/git/vdr.git/tree/mtd.c

The ETSI TS 103 205 specification allows multi-stream decoding using the local-TS identifiers (no PID remapping, the 0x47 sync byte is replaced with the local-TS identifier).

```
ETSI TS 103 205:
http://www.etsi.org/deliver/etsi_ts/103200_103299/103205/01.01.01_60/ts_103205v010101p.pdf
```

The implementation should be separated from the actual tvh's caclient (shared code).

History

#1 - 2017-11-29 21:11 - Jaroslav Kysela

To be more precise: DDCI2 is just a bridge for CAMs. The CAM must support the multi-stream decoding and appearently there are two standards MTD/MCD (multiple transport decoding/multiple channel decoding) and the official one defined in CI plus (ETSI TS 103 205) which uses local-TS identifiers.

#2 - 2021-02-20 22:32 - Flole Systems

- Target version changed from 4.4 to 4.6