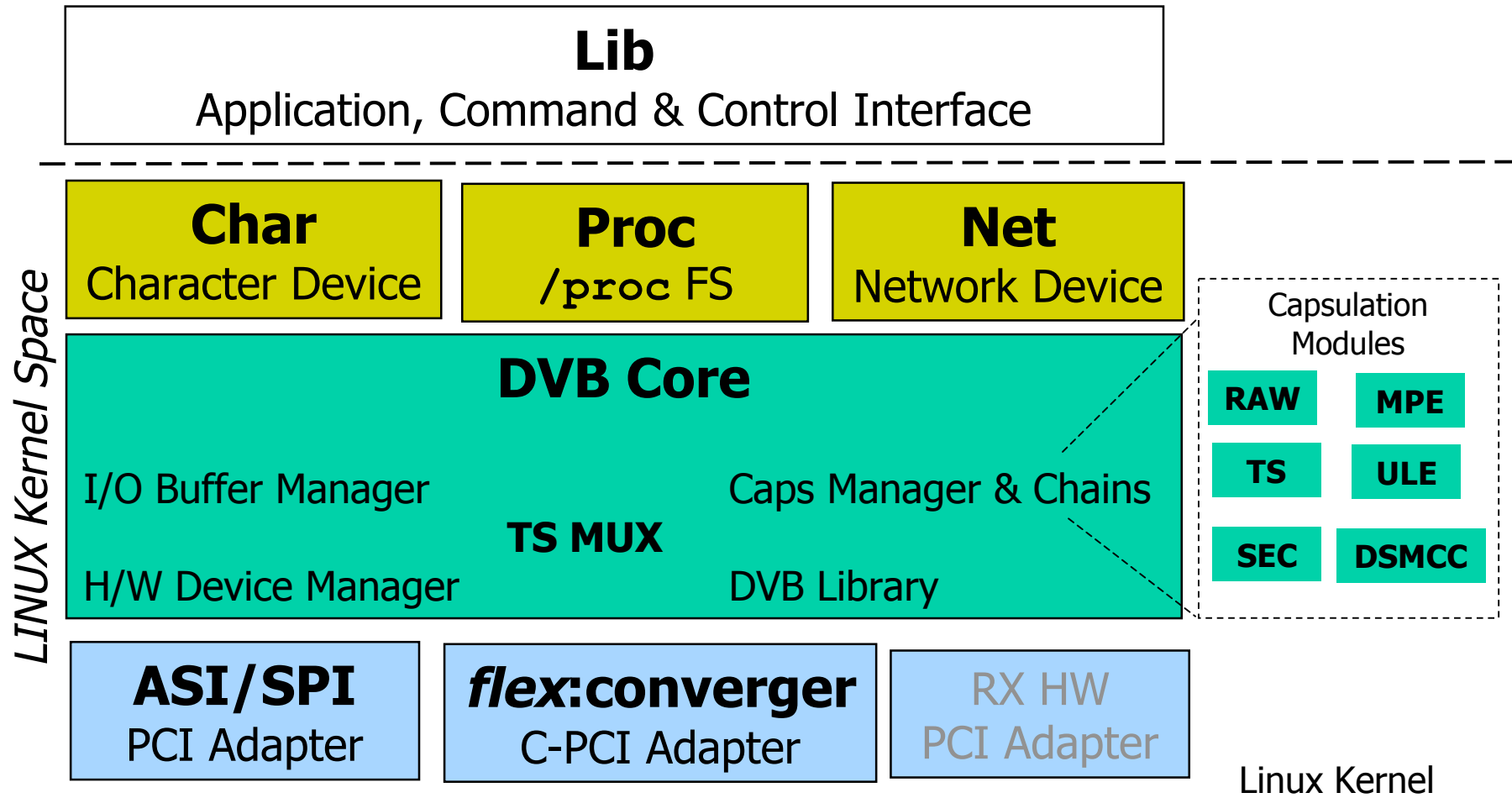


# **ULE Implementation Status**

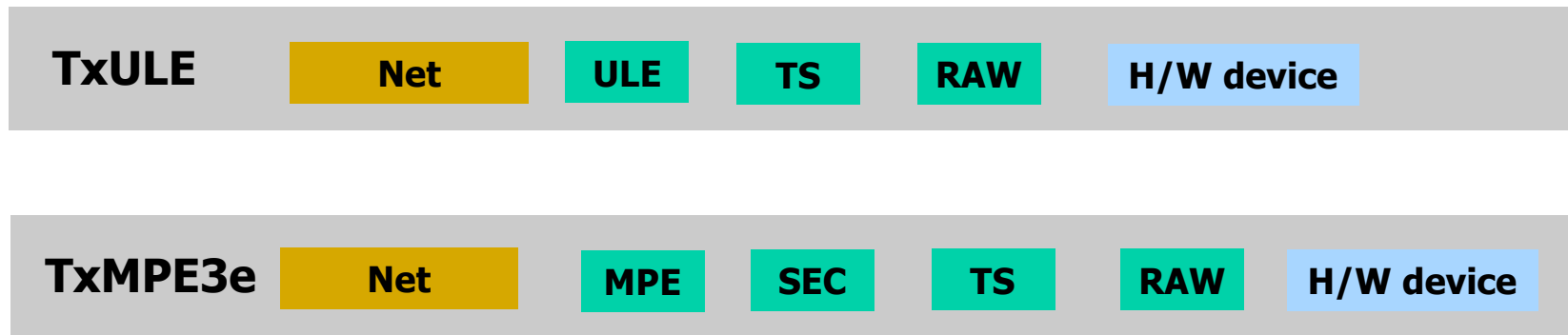
## **draft-fair-ipdvb-ule-01.txt**

Hilmar Linder, Wolfram Stering  
hl@gcs-salzburg.at  
ws@gcs-salzburg.at

# IP/DVB Gateway SW Architecture



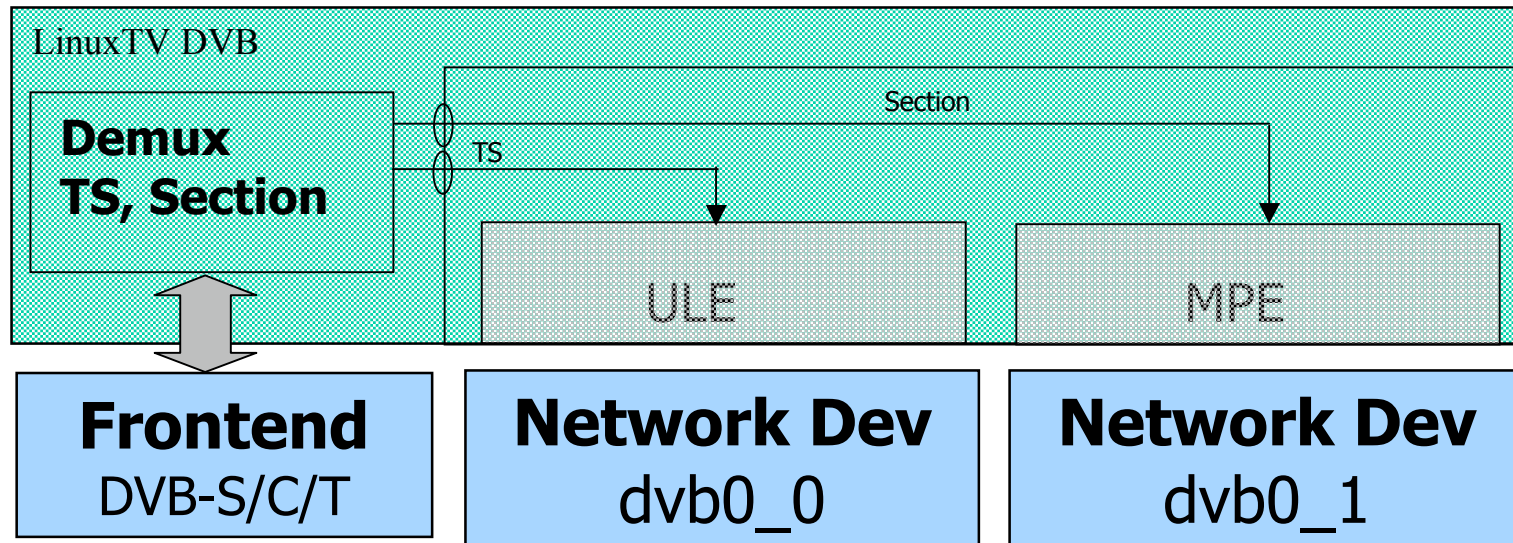
# Flexible Capsulation Chains



- A caps chain represents a sequence of encaps modules executed in the given order
- A caps chain is then attached to a network interface (i.e. forward IP packets from Net to H/W device using the given encaps chain)

# Technotrend Driver Architecture

- Modular design
- Implementation under GPL ([www.linuxtv.org](http://www.linuxtv.org))



# ULE Receiver

- ULE decaps straightforward to implement
  - approx. 250 LOC
- Runs in parallel with MPE decapsulator
  - can create network devices for ULE and MPE

```
apps/dvbnet/dvbnet -a 0 -p 0x303 -U  
ip a add 10.0.4.2/32 dev dvb0_0  
ip link set up dev dvb0_0
```

- Hope to place driver in public domain

# ULE Changes

- CRC-32 same as ISO DSM-CC CRC Spec
- Stuff/PAD MUST be 0xFF
- Minor changes to clarify wording
- Experience will be fed into next rev of ULE ID