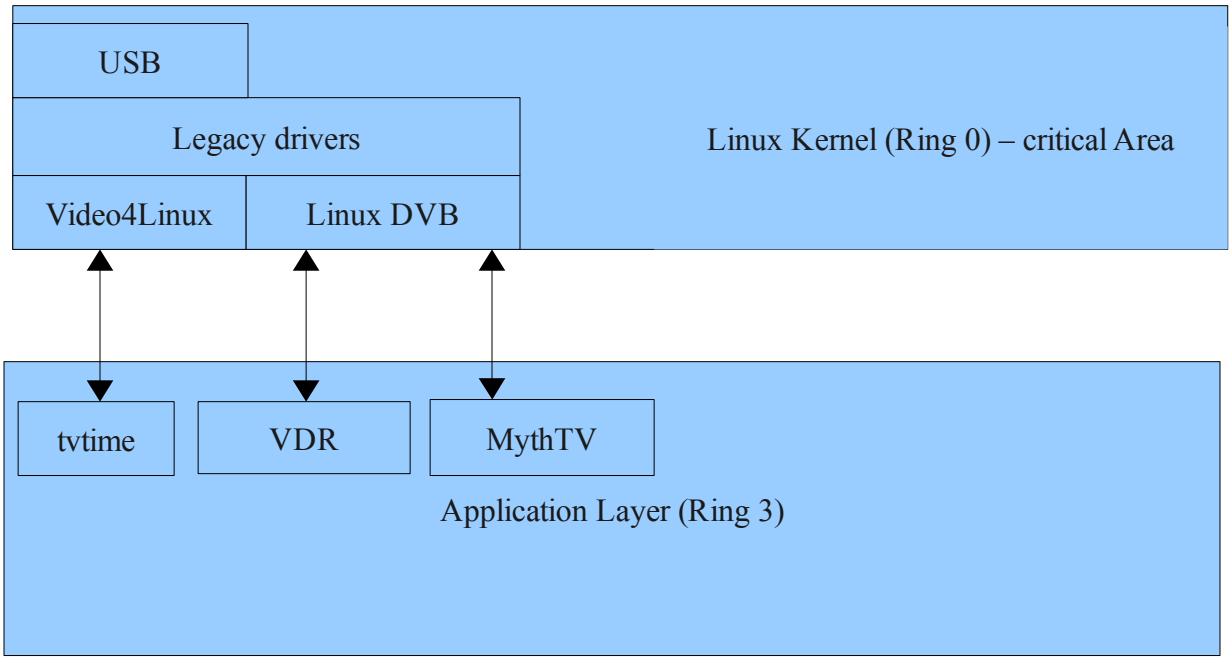
Sundtek

– we're here to deliver High Tech Multimedia to everyone

Legacy Linux Multimedia Drivers



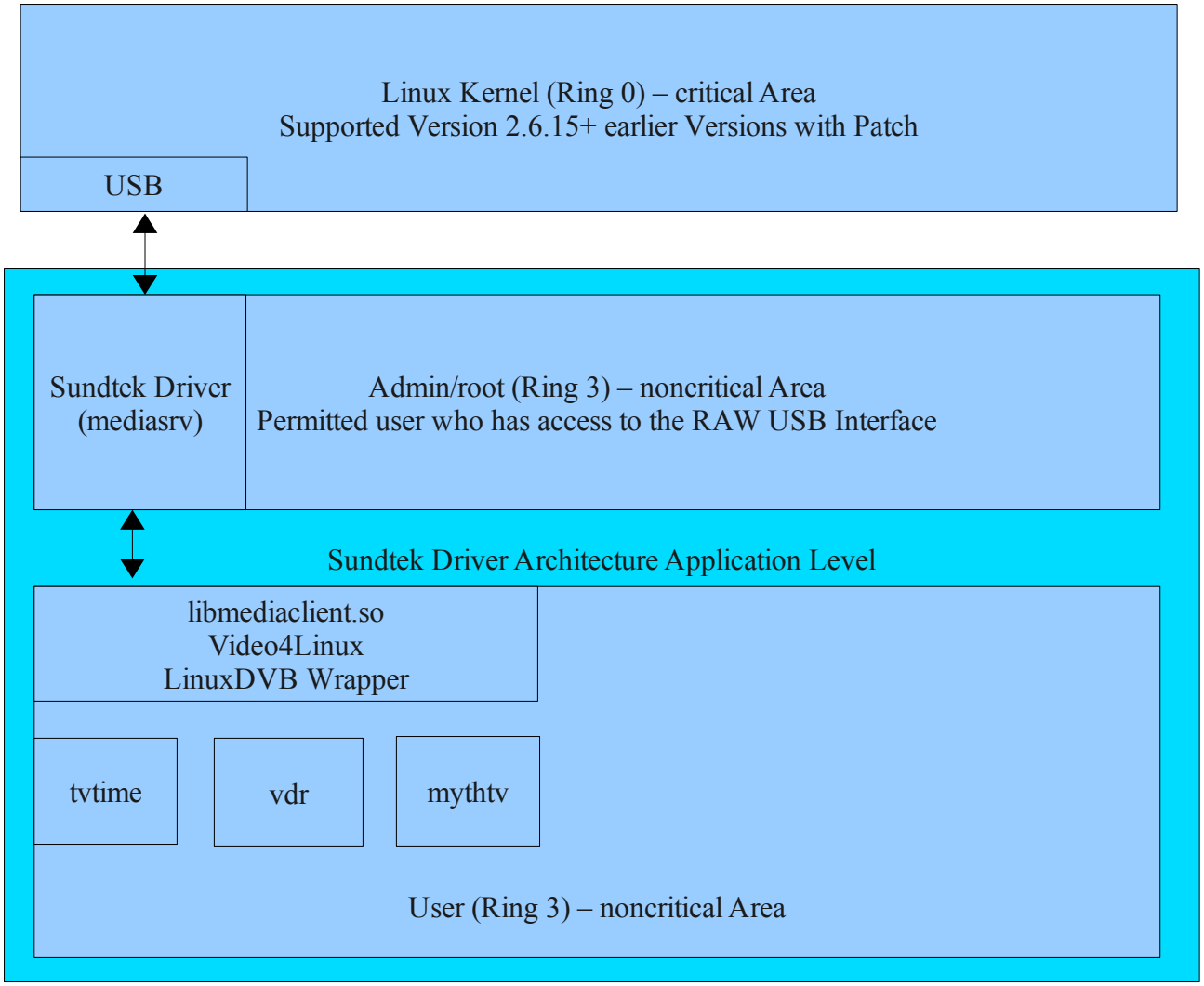
Advantage:

- it's fast since almost no overhead

Disadvantages:

- Legacy drivers are heavily tied to the evolving Video4Linux and Linux DVB API
- Internal Kernel API is not stable, driver needs to be maintained over many Kernelversions (that could make up to more than 100 drivers for multiple different Linux distributions)
- Devices will never be supported when they are on the market – unless customers compile drivers by themselves. Market of users who compile drivers is very small, not relevant for manufacturers.
- The entire system will be affected if unexpected issues happen with a Kerneldriver
- Different Kernel versions – different driver versions – most endusers are not able to update drivers by themselves this ends up that different users will report solved problems multiple times.
- Debugging is hell – memory corruptions – memory leaks – very hard to track!
- The truth – maintained by volunteers which are doing a good job but who are not able to guarantee a certain quality most drivers are reverse engineered since driver modules are reused different devices might be affected – device drivers break regulary.

Sundtek Driver Architecture



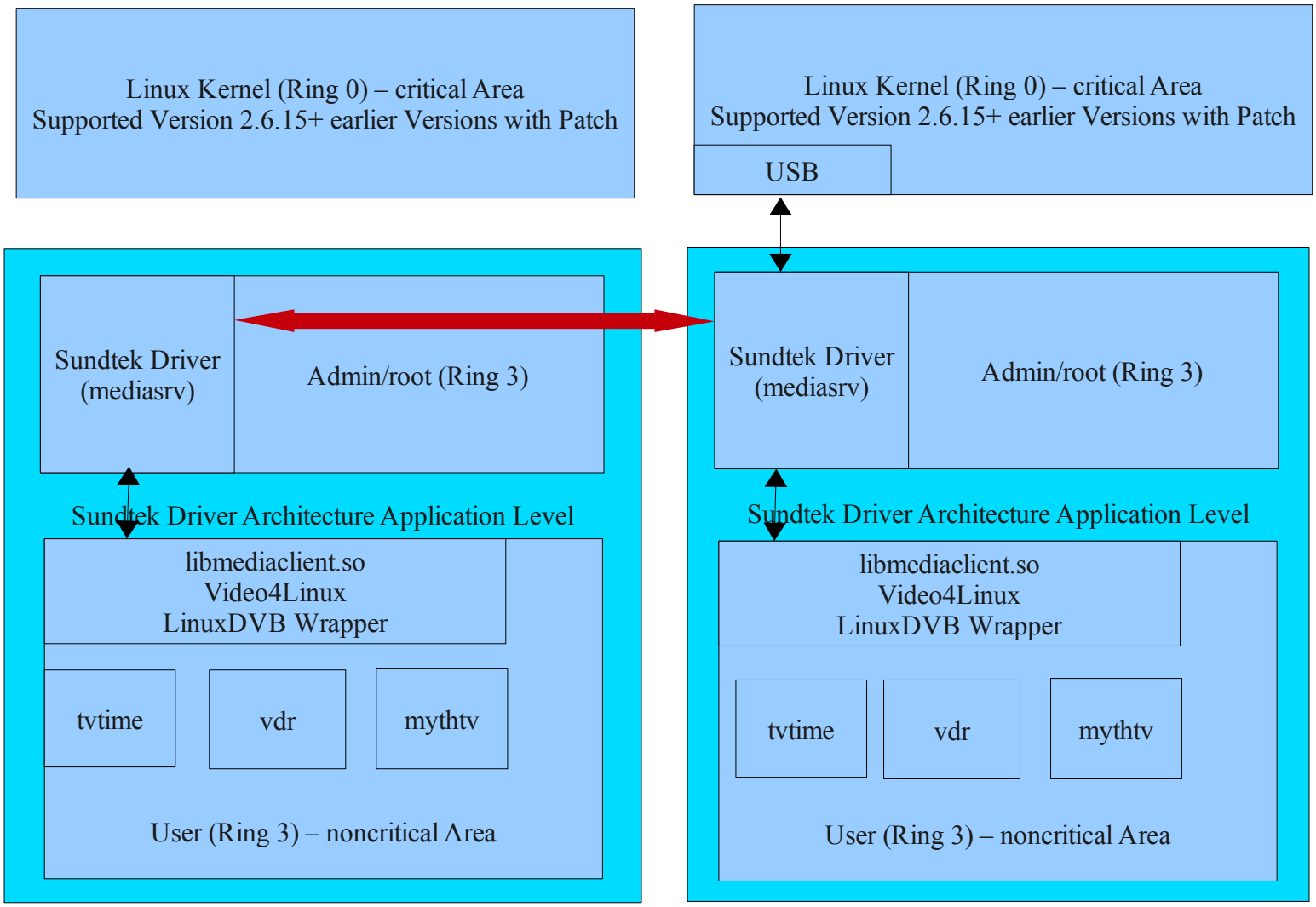
Advantage on Application level – if Applications crash they do not affect the System stability.
This means this architecture delivers the maximum possible system reliability – while having full multimedia support. Even uncaught device failures can only affect the driver process (mediasrv) itself.

The USB Interface of the kernel is stable, which means recompiling the driver is not necessary for different Kernel versions – decreasing the maintenance requirement and the driver engineer only has to focus on the actual driver implementation.

Also user handling of userspace drivers is much more convenient, users just have to run an installer. No compiling. Since all users can easily update drivers it's easier to collect feedback about a new driver release.

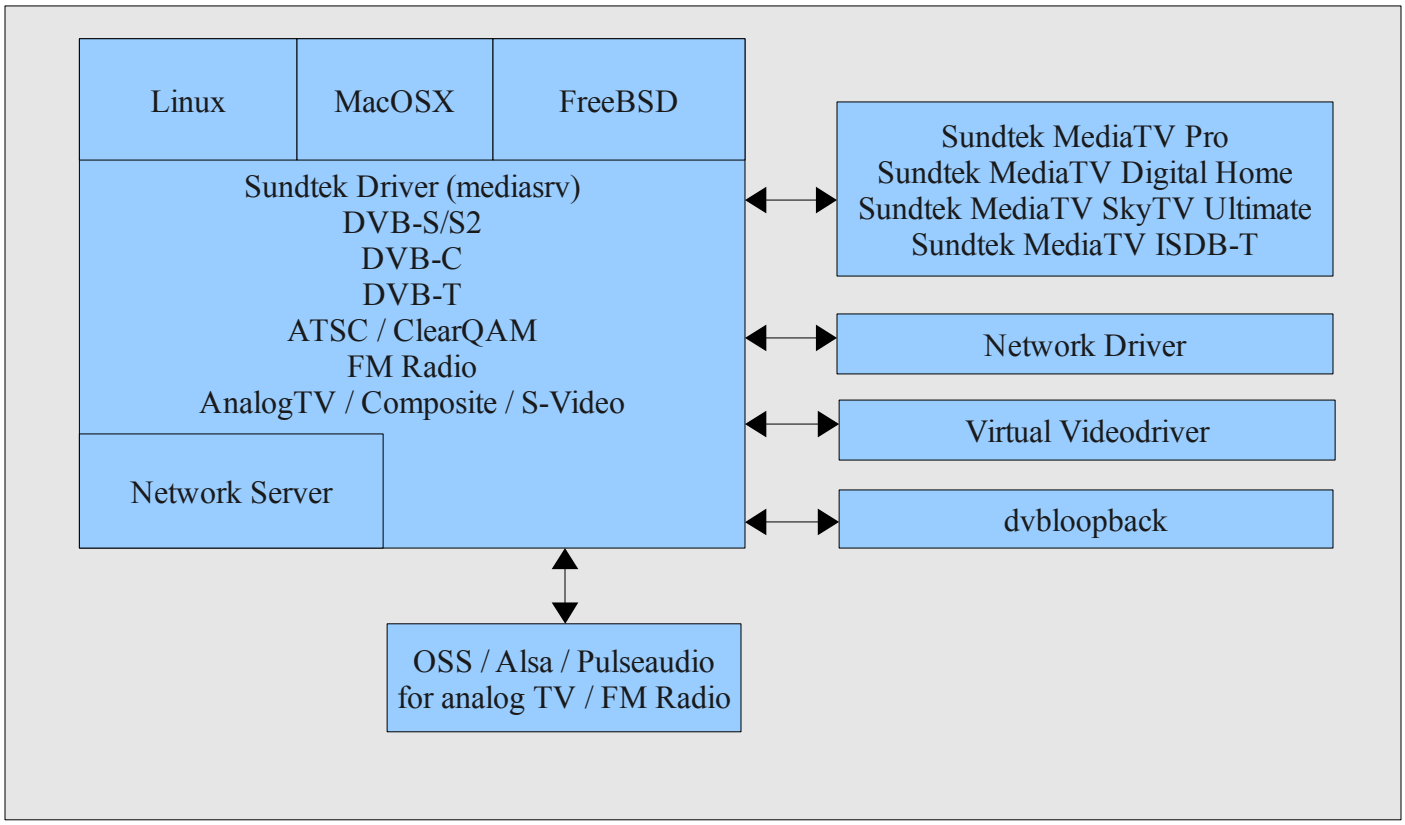
Debugging can be done using gdb, valgrind or other tools – very easy – comfortable and economical

Sundtek Driver Architecture Networked Mode



The new Architecture also allows to load local devices on a remote Host, for example streaming from a Seagate Dockstar to a Television, Settopbox, Notebook, iPad.
Stream TV to a Notebook via wireless lan
Stream TV from a Linux NAS System or Linux Router!

Sundtek Main Driver



Highly modular Architecture, very flexible and works with different architectures and different operating systems.

No need to attach a TV Cable – Ethernet / Wireless LAN is enough