Netconf Day 2

2023

Process and stuff

- statistics
- pw-bot
- check stats
- Cl plans / picture
 - Improve testing
 - Build conformance tests
 - Must be reliable
- feedback

High level goals:

- Simplify the prepare / commit reconfiguration for drivers
- Allow creation of queues without full device reset
- Create a condensed queue configuration object

- Memory alloc / free
- Queue alloc / free
- Queue start / stop / restart

```
+ unsigned int rxq_mem_size;
+
+ int (*rxq_mem_alloc)(struct net_device *netdev,
+ const struct netdev_cfg *dcfg,
+ const struct netdev_rxq_cfg *qcfg,
+ void *qmem);
```

Device config

MTU

Queue config

- ring size
- header/data split
- page pool params
- ...

Ring params may need to be global.

Queue API - configuration

(Ordered) rule based config?

Not exposed to the driver.

- Queue X has fewer entries.
- All queues in RSS context Y have bigger page pool.
- The whole device uses huge pages.

Rendered into "flat" per-queue configuration for the driver.

Opens (more than the rest of it):

- Lifetime & permissions model
 - Some permissions are needed
 - NET_ADMIN probably implies "system demon" intermediary?
- Handling of "normal" stack queues same or special?