

Netdev private dataroom for 6lowpan interfaces

All 6lowpan able net devices, means all interfaces with ARPHRD_6LOWPAN, must have "struct lowpan_priv" placed at beginning of netdev_priv.

The priv_size of each interface should be calculate by:

```
dev->priv_size = LOWPAN_PRIV_SIZE(LL_6LOWPAN_PRIV_DATA);
```

Where LL_PRIV_6LOWPAN_DATA is sizeof linklayer 6lowpan private data struct. To access the LL_PRIV_6LOWPAN_DATA structure you can cast:

```
lowpan_priv(dev)->priv;
```

to your LL_6LOWPAN_PRIV_DATA structure.

Before registering the lowpan netdev interface you must run:

```
lowpan_netdev_setup(dev, LOWPAN_LLTYPE_FOOBAR);
```

wheres LOWPAN_LLTYPE_FOOBAR is a define for your 6LoWPAN linklayer type of enum lowpan_lltypes.

Example to evaluate the private usually you can do:

```
static inline struct lowpan_priv_foobar *
lowpan_foobar_priv(struct net_device *dev)
{
    return (struct lowpan_priv_foobar *)lowpan_priv(dev)->priv;
}

switch (dev->type) {
case ARPHRD_6LOWPAN:
    lowpan_priv = lowpan_priv(dev);
    /* do great stuff which is ARPHRD_6LOWPAN related */
    switch (lowpan_priv->lltype) {
    case LOWPAN_LLTYPE_FOOBAR:
        /* do 802.15.4 6LoWPAN handling here */
        lowpan_foobar_priv(dev)->bar = foo;
        break;

        ...
    }
    break;

    ...
}
```

In case of generic 6lowpan branch ("net/6lowpan") you can remove the check on ARPHRD_6LOWPAN, because you can be sure that these function are called by ARPHRD_6LOWPAN interfaces.