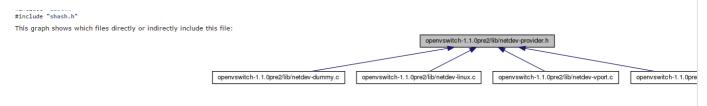
10/21/2017 OneNote Online

# OVS Source Code browser Call graphs

Monday, September 5, 2016 11:13 AM

### Source:

https://sourcecodebrowser.com/openvswitch/1.1.0~pre2.g2.ea 763e0e/netdev-provider 8h.html



#### Classes

struct	arg
struct	netdev_dev
struct	netdev
struct	netdev_notifier
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#### Functions

void	netdev_dev_init (struct netdev_dev *, const char *name, const struct netdev_class *)
void	netdev_dev_uninit (struct netdev_dev *, bool destroy)
const char *	netdev_dev_get_type (const struct netdev_dev *)
struct netdev_class *	netdev_dev_get_class (const struct netdev_dev *)
const char *	netdev_dev_get_name (const struct netdev_dev *)
struct netdev_dev *	netdev_dev_from_name (const char *name)
void	netdev_dev_get_devices (const struct netdev_class *, struct shash *device_list)
static void	netdev_dev_assert_class (const struct netdev_dev *netdev_dev, const struct netdev_class *class_)
void	netdev_init (struct netdev *, struct netdev_dev *)
void	netdev_uninit (struct netdev *, bool close)
struct netdev_dev *	netdev_get_dev (const struct netdev *)
static void	netdev_assert_class (const struct netdev *netdev, const struct netdev_class *netdev_class)
void	netdev_notifier_init (struct netdev_notifier *, struct netdev *, void(*cb)(struct netdev_notifier *), void *aux)
int	netdev_register_provider (const struct netdev_class *)
int	netdev_unregister_provider (const char *type)
struct netdev_class *	netdev_lookup_provider (const char *type)

Screen clipping taken: 9/5/2016 5:51 PM

Bridge reconfigure -> netdev open->netdev initialize-> netdev register provider

 $Refer to this link: \underline{http://flavioleitner.blogspot.de/2013/06/understanding-big-projects-call-graphs.html} \\$ 

## netdev\_class has the following function memebers amongst others:

/\* Type of netdevs in this class, e.g. "system", "tap", "gre", etc.\*/

```
/* ## ----- ## */
/* ## netdev_rxq Functions ## */
/* ## ----- ## */
```

/\* If a particular netdev class does not support receiving packets, all these

\* function pointers must be NULL. \*/

```
/* Life-cycle functions for a netdev_rxq. See the large comment above on 
* struct netdev_class. */
struct netdev_rxq *(*rxq_alloc)(void);
int (*rxq_construct)(struct netdev_rxq *);
void (*rxq_destruct)(struct netdev_rxq *);
void (*rxq_dealloc)(struct netdev_rxq *);
```

/\* Attempts to receive batch of packets from 'rx' and place array of

- \* pointers into '\*pkts'. netdev is responsible for allocating buffers.
- \* '\*cnt' points to packet count for given batch. Once packets are returned
- \* to caller, netdev should give up ownership of ofpbuf data.
- \* Implementations should allocate buffer with DP\_NETDEV\_HEADROOM headroom
- \* and add a VLAN header which is obtained out-of-band to the packet.
- \* Caller is expected to pass array of size MAX\_RX\_BATCH.
- \* This function may be set to null if it would always return EOPNOTSUPP

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Open\_vSwitch

Flow\_Table