

**NAME**

**ng\_iface** - generic Ethernet interface netgraph node type

**SYNOPSIS**

```
#include <netgraph/ng_iface.h>
```

**DESCRIPTION**

The *iface* netgraph node implements the generic Ethernet interface. When an *iface* node is created, a new interface appears which is accessible via `ifconfig(8)`. These interfaces are named "ngeth0", "ngeth1", etc. When a node is shut down, the corresponding interface is removed, and the interface name becomes available for reuse by future *iface* nodes. New nodes always take the first unused interface.

**HOOKS**

An *iface* node has a single hook named *ether*, which should be connected to the Ethernet downstream, for example, to the `ng_vlan(4)` node. Packets transmitted via the interface flow out this hook. Similarly, packets received on the hook go to the protocol stack as packets received by any real Ethernet interface.

**CONTROL MESSAGES**

This node type supports the generic control messages, plus the following:

**NGM\_EIFACE\_SET (set)**

Set link-level address of the interface. Requires *struct ether\_addr* as an argument. This message also has an ASCII version, called "set", which requires as an argument an ASCII string consisting of 6 colon-separated hex digits.

**NGM\_EIFACE\_GET\_IFNAME (getifname)**

Return the name of the associated interface as a NULL-terminated ASCII string.

**NGM\_EIFACE\_GET\_IFADDRS**

Return the list of link-level addresses associated with the node.

**SHUTDOWN**

This node shuts down upon receipt of a `NGM_SHUTDOWN` control message. The associated interface is removed and its name becomes available for reuse by future *iface* nodes.

Unlike most other node types, an *iface* node does *not* go away when all hooks have been disconnected; rather, an explicit `NGM_SHUTDOWN` control message is required.

**SEE ALSO**

netgraph(4), ng\_ether(4), ng\_iface(4), ng\_vlan(4), ifconfig(8), ngctl(8)

## **HISTORY**

The *iface* node type was implemented in FreeBSD 4.6.

## **AUTHORS**

The *iface* node type was written by Vitaly V Belehov. This manual page was written by Gleb Smirnoff.