

NAME

ip-macsec – MACsec device configuration

SYNOPSIS

```
ip link add link DEVICE name NAME type macsec [ [ address <lladdr> ] port PORT | sci <u64> ] [ cipher { default | gcm-aes-128 | gcm-aes-256" } ] [ icvlen ICVLEN ] [ encrypt { on | off } ] [ send_sci { on | off } ] [ end_station { on | off } ] [ scb { on | off } ] [ protect { on | off } ] [ replay { on | off } ] [ window WINDOW ] [ validate { strict | check | disabled } ] [ encodingsa SA ]
```

```
ip macsec add DEV tx sa { 0..3 } [ OPTS ] key ID KEY
```

```
ip macsec set DEV tx sa { 0..3 } [ OPTS ]
```

```
ip macsec del DEV tx sa { 0..3 }
```

```
ip macsec add DEV rx SCI [ on | off ]
```

```
ip macsec set DEV rx SCI [ on | off ]
```

```
ip macsec del DEV rx SCI
```

```
ip macsec add DEV rx SCI sa { 0..3 } [ OPTS ] key ID KEY
```

```
ip macsec set DEV rx SCI sa { 0..3 } [ OPTS ]
```

```
ip macsec del DEV rx SCI sa { 0..3 }
```

```
ip macsec show [ DEV ]
```

```
OPTS := [ pn { 1..2^32-1 } ] [ on | off ]
```

```
SCI := { sci <u64> | port PORT address <lladdr> }
```

```
PORT := { 1..2^16-1 }
```

DESCRIPTION

The **ip macsec** commands are used to configure transmit secure associations and receive secure channels and their secure associations on a MACsec device created with the **ip link add** command using the *macsec* type.

EXAMPLES**Create a MACsec device on link eth0**

```
# ip link add link eth0 macsec0 type macsec port 11 encrypt on
```

Configure a secure association on that device

```
# ip macsec add macsec0 tx sa 0 pn 1024 on key 01 818181818181818181818181818181
```

Configure a receive channel

```
# ip macsec add macsec0 rx port 1234 address c6:19:52:8f:e6:a0
```

Configure a receive association

```
# ip macsec add macsec0 rx port 1234 address c6:19:52:8f:e6:a0 sa 0 pn 1 on key 00 828282828282828282828282828282
```

Display MACsec configuration

```
# ip macsec show
```

SEE ALSO

ip-link(8)

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