

Pequeno Manual OSCAM

Exemplo para dreambox 500:

Files necessários e respectivas localizações:

Oscam.ppc renomeado para oscam -> /var/bin

Oscam.conf -> /var/tuxbox/config

Oscam.server -> /var/tuxbox/config

Oscam.user -> /var/tuxbox/config

Oscam.services -> /var/tuxbox/config

Oscam.srvid -> /var/tuxbox/config

oscam.conf:

```
NAME
    oscam.conf - main configuration file for OSCam

SYNOPSIS
    The main configuration file for OSCam contains global
parameters such
    as debugging, logging, monitor, protocols and anti-cascading.
sections
    in oscam.conf are nonrecurring. The [global] section is
required. All
    other sections are optional.

DESCRIPTIONS
    The [global] section
serverip = IP address
    bind service to specified IP address, default:all

logfile = filename|/dev/null|/dev/tty|syslog
    logging target, default: /var/log/oscam.log

pidfile = filename
    PID file, default:no PID file

usrfile = filename
    log file for user logging, default:none

log file format:

    date
    time
    CWS per second
```

```
username
  IP address of client
  TCP/IP port
  CWS found
  CWS from cache
  CWS not found
  login time in unix/POSIX format
  logout time in unix/POSIX format
  protocol

cwlogdir = path
  directory for CW logging, default:none

clienttimeout = seconds
  value for client process to wait for key, default:5

fallbacktimeout = seconds
  time falling back to fallback reader, default:2

clientmaxidle = seconds
  value for client process being idle before disconnect,
default:120

cachedelay = milli-seconds
  value to delay cached requests , default:0

bindwait = seconds
  value to wait for bind request to complete, default:120

netprio = priority
  network priority, default:system given

resolvedelay = seconds
  delay for DNS resolving, default:30

sleep = minutes
  time waiting for inactive users, default:none, can be
overwritten
  per user in oscam.user

unlockparental = 0|1
  1 = unlock parental mode option to disable Seca pin code
request for
  adult movie, default:0

nice = -20..+20
  system priority, default:99

serialreadertimeout = milli-seconds
  timeout for serial reader, default:1500

maxlogsize = kbytes
  max log file size, default:10

showecmdw = 0|1
  1 = show DW in log file, default:0

waitforcards = 0|1
  1 = wait for local SCs on startup before opening network
ports,
  default:0
```

```
preferlocalcards = 0|1
    1 = try decoding on local cards first, default:0
```

The [monitor] section

```
port = 0|port
    UDP port for monitor, port=0 monitor disabled, default:0
```

```
serverip = IP address
    bind service to specified IP address, default:all
```

```
nocrypt = IP address|IP address range[,IP address|IP address
range]...
```

```
    unsecured monitor connection, default:none
```

```
    example: nocrypt = 127.0.0.1,192.168.0.0-192.168.255.255
```

```
aulow = minutes
```

```
    time no EMM occurs so that client is set to low, default:30
```

```
monlevel = 0|1|2|3|4
```

```
    monitor level:
```

```
    0 = no access to monitor
```

```
    1 = only server and own procs
```

```
    2 = all procs, but viewing only, default
```

```
    3 = all procs, reload of oscam.user possible
```

```
    4 = complete access
```

```
    monlevel can be overwritten per user in oscam.user
```

```
hideclient_to = minutes
```

```
    time to hide clients in the monitor if not sending
requests, 0 =
    disabled, default:0
```

The [camd33] section

```
port = 0|port
    TCP/IP port for camd 3.3x clients, 0 = disabled, default:0
```

```
serverip = IP address
    bind service to specified IP address, default:all
```

```
nocrypt = IP address|IP address range[,IP address|IP address
range]...
```

```
    unsecured camd 3.3x client connection, default:none
```

```
    example: nocrypt = 127.0.0.1,192.168.0.0-192.168.255.255
```

```
passive = 0|1
```

```
    1=force passive camd 3.3x client, default:0
```

```
key = 128 bit key
```

```
    key for camd 3.3x client encryption, default:none
```

```
    example: key = 01020304050607080910111213141516
```

The [camd35] section

```
port = 0|port
    UDP port for camd 3.5x clients, 0 = disabled, default:0
```

```

serverip = IP address
    bind service to specified IP address, default:all

The [newcamd] section
port =
port@CAID[:ident][,ident]...[;port@CAID[:ident][,ident]...]...
    TCP port/CAID/ident definitions, default:none

    example: port =
10000@0100:100000;20000@0200:200000,300000,400000

    Each CAID requires a separate port.

serverip = IP address
    bind service to specified IP address, default:all

key = DES key
    key for newcamd client encryption, default:none

    example key = 0102030405060708091011121314

The [radegast] section
port = 0|port
    TCP/IP port for radegast clients, 0=disabled, default:0

serverip = IP address
    bind service to specified IP address, default:all

allowed = IP address|IP address range[,IP address|IP address
range]...
    client connections allowed from, default:none

    example: allowed = 127.0.0.1,192.168.0.0-192.168.255.255

user = username
    user name for radegast client

The [serial] section
device =
<user>@<device>[:baud][?option1=value1[&option2=value2]]
parameters:
    user    = account
    device  = serial device name
    option  = timeout = milli-seconds, timeout for connection,
            default:50
            delay   = milli-seconds, additional delay between
two
                characters, default:0

supported serial devices:
    HSIC    (humax sharing interface client)
    SSSP    (simple serial sharing protocol)
    bomba   (BOMBA firmware)
    dsr9500 (DSR 9500)

The [cs357x] section
port = 0|port
    UDP port for camd 3.57x clients, 0 = disabled, default:0

serverip = IP address
    bind service to specified IP address, default:all

```

The [cs378x] section
port =
0|port@CAID[:ident][,ident]...[;port@CAID[:ident][,ident]...]...
TCP port/CAID/ident definitions for camd 3.78x clients, 0 =
disabled,
default:0

example: port =
10000@0100:100000;20000@0200:200000,300000,400000

Each CAID requires a separate port.

serverip = IP address
bind service to specified IP address, default:all

The [gbox] section

password = password
password for gbox server

maxdist = distance
maximum distance to gbox servers, default:5

ignorelist = filename
listing of providers to be ignored, format:
G:{<CAID><provider ID>},
default:none

example: G:{01001234}

onlineinfos = filename
file to store online information, default:none

cardinfos = filename
file to store card information, default:none

locals = <CAID><provider ID>[,<CAID><provider ID>]...
backwards sharing of local cards, default:none

example: locals = 01001234,02005678

The [anticasc] section

enabled = 0|1
1=enabled anti-cascading, default:0

numusers = quantity
user per account, default:0

sampletime = minutes
duration of sample, default:2

samples = quantity
quantity of samples over limit, default:10

penalty = 0|1|2
level of penalty:

0 = only logging
1 = send fake CWs
2 = disable user temporary

```

        default:0, penalty can be overwritten per user in oscam.user

aclogfile = filename
        file for anti-cascading logging, default:none

fakedelay = milli-seconds
        fake delay time, default:1000

denysamples = quantity
        How many samples should be penalized?, default:8

MONITOR
monitor commands:

login <user> <password> = login (for unencrypted connections
only)
exit                    = exit monitor
log <on|onwohist|off>   = enable|enable without history|disable
                        logging for 2 minutes
status                  = list of current processes and clients
shutdown                = shutdown OSCam
reload                  = reinit user db, clients and anti-
cascading
details <PID>           = details about selected PID
debug <level>           = set debug level (monlevel > 3
required)

                        debug level mask:
                        0 = no debugging (default)
                        1 = debug dumps
                        2 = debug master process
                        4 = debug reader/proxy process
                        8 = debug client process
                        16 = debug reader I/O
                        32 = debug watchdog
                        63 = debug all

version                  = show OSCam version

EXAMPLES
[global]
logfile                 = /var/log/oscam/oscam.log
usrfile                 = /var/log/oscam/oscamuser.log
pidfile                 = /var/run/oscam.pid

waitforcards = 1

[monitor]
port                    = 988
monlevel                = 1
nocrypt                 = 127.0.0.1

[newcamd]
key                     = 0102030405060708091011121314
port                    =
10000@0100:100000;20000@0200:200000,300000,400000

[radegast]
port                    = 30000
user                    = radegastuser
allowed                 = 127.0.0.1,192.168.0.0-192.168.255.255

```

```

[camd33]
port      = 40000
serverip  = 192.168.0.1
key       = 01020304050607080910111213141516

[cs378x]
port      = 50000@0300:60000

```

oscam.server:

```

NAME
    oscam.server - reader configuration file for OSCam

SYNOPSIS
    The server configuration file for OSCam contains reader
    parameters.
    sections in oscam.server are recurring (more than one reader
    possible).
    At least one [reader] section is required.

DESCRIPTIONS
    The [reader] section
    device = device|<ip|hostname>,<port>[,<lport>]|pcsc
    define local or remote reader
    lport: remapping to local port
    PCSC: number of PCSC readers, starting with 0

    key = DES key
    key for newcamd remote reader encryption

    password = password
    password for remote gbox reader

    premium = ???
    for gbox reader

    account = user,password
    user and password for remote reader

    pincode = pincode
    pincode for Conax and Cryptoworks SCs

    services = [!]<services>[,<services>]...
    reader [de]assignment to service group, default=none

    inactivitytimeout = minutes
    inactivity timeout for newcamd reader, default:none

    reconnecttimeout = minutes
    TCP reconnect, if missing answers, default:none

    disableserverfilter = 0|1
    1 = ignore caid and ident settings of reader due faulty
clients,
    default=0

```

```

label = name
    name for reader, required

fallback = 0|1
    1 = define reader as fallback, standard and fallback
reader must
    have the same group, default:0

logport = 0|port
    camd3 reader logport, camd3 UDP must be activated, only
works if
    theres no camd3 cascading, 0=disabled, default=0

caid = CAID[&<mask>][,CAID[&<mask>]]...
CAID,
    define CAID for reader, some protocols only support one
    default:mask=FFFF

    example: CAID=0100,0200&FFDF

boxid = NDS box ID
    NDS receiver box id

aeskey = AES key
    AES key for Viaccess SCs

detect = CD|DSR|CTS|RING|NONE|gpio[2-7]
    status detect of card (NONE = no detection), default:CD

cardmhz = mhz
set to
    set standard SC frequency in units of 10 kHz, for Irdeto SC
    600, refer to OVERCLOCKING, default:357

mhz = frequency
are in
    set reader frequency in units of 10 kHz, if mhz > cardmhz you
    overclocking mode, refer to OVERCLOCKING, default:357

protocol = reader protocol
    reader protocol, required:
        mouse
        smartreader
        internal
        serial
        camd35|cs357x
        cs378x
        gbox
        newcamd|newcamd525
        newcamd524
        cccam
        radegast
        pcsc

cccversion = <main version>.<version>.<sub version>
    define CCcam version, default:none

    exmaple: cccversion = 1.2.34

cccbuild = <4-digit number>

```

```

define CCcam build, default:none

exmaple: cccbuild = 5678

ident =
<CAID>:<ident>[,ident]...[,<CAID>:<ident>[,ident]...]...
define CAID and ident for reader

exmaple: ident = 0100:123456,234567;0200:345678,456789

provid = ID
define provider ID for reader

class = [!]class[,(!]class]...
define class in hex for reader

example: class = 01,02,!1b,!2b

chid = CAID:ChID
define Irdeto ChID for reader

example: chid = 0100:12

showcls = quantity
number of classes subscriptions to show for Viaccess SCs,
default=10

maxqlen = size
size of request queue for reader, default:128

group = groupname
reader assingment to group, required

emmcache = usecache,rewrite,logging
set EMM cache of local reader:
usecache = 0|1 1=enable EMM chaching, default:0
rewrite = determines how often one and the same EMM is
written
logging = 0 = log errors only
          1 = log all EMMs except the double EMMs
          2 = log all EMMs

blocknano = nano[,nano]...|all
list of EMM-nanos to block (in hex w/o 0x) or all EMM-
nanos, only
valid for physical readers, default:none

example: blocknano = 45,93,7a,ff
blocknano = all

savenano = nano[,nano]....|all
list of EMM-nanos to save (in hex w/o 0x) or all EMM-
nanos, only
valid for physical readers, default:none

example: savenano = 45,93,7a,ff
savenano = all

readnano = [path]filename
write file (usually a copy of a filesaved by savenano) to
your

```

smartcard, if no path is specified, the specified file is searched for in the configuration directory, only valid for physical readers, default:none

example: readnano = write.emm
readnano = /var/oscam/write.emm

n3_rsakey = RSA key
RSA key for Nagravision SCs

n3_boxkey = box key
box key for Nagravision SCs

OVERCLOCKING

Dreambox reader

For SC overclocking set to 600. If mhz is unset or any other value, the default value will be used and behaviour will be standard.

Phoenix / Smartmouse reader

Overclocking does not work with Windows and Mac OS X. Set mhz equivalent to the frequency of the reader. OSCam can not set the frequency of the reader.

Smargo Smartreader+

Set the reader frequency with the native Smargo Smartreader+ tool (srp_tools). Do not set mhz and cardmhz.

OSCam tries to set the baudrate automatically. A standard serial port has limited baudrate settings, so SC overclocking might not work. When using a serial reader the best way for overclocking is connecting it to a FTDI based USB to serial port adapter.

If overclocking does not work, verify the effective baudrate in the logfile. If it deviates too much from the requested baudrate, the SC will not be recognized (no ATR) and the value for mhz should be adjusted again. The higher the baudrate, the more accurate the effective baudrate can be.

EXAMPLES

serial mouse compatible reader

```
[reader]
label    = myserialmousereader
detect   = cd
protocol = mouse
device   = /dev/ttyS1
group    = 1
caid     = 0100
services = myservice,!thisservice
```

USB mouse compatible reader

```
[reader]
label    = myusbmousereader
detect   = cd
protocol = mouse
device   = /dev/ttyUSB0
aeskey   = 0102030405060708090a0b0c0d0e0f10
group    = 2
caid     = 0200
```

camd 3.78x reader

```
[reader]
label    = mycamd378xreader
protocol = cs378x
device   = 192.168.0.1,1234
account  = user,password
group    = 3
```

newcamd reader

```
[reader]
label    = mynewcamdreader
protocol = newcamd
key      = 0102030405060708091011121314
device   = 192.168.0.2,2345
account  = user,password
group    = 4
```

CCcam reader

```
[reader]
label = mycccamreader
protocol = cccam
device = 192.168.0.3,3456
account = user,password
group = 5
caid = 0300,0400,0500
cccversion = 1.2.3
cccbuild = 4567
```

PCSC reader

```
[reader]
label    = mypcscreader
protocol = pcsc
device   = 0
```

```
aeskey = 0102030405060708090a0b0c0d0e0f10
group = 6
caid = 0600
```

oscam.user:

```
NAME
    oscam.user - user configuration file for OSCam

SYNOPSIS
    The user configuration file for OSCam contains user
    definitions.
    [account] sections in oscam.user are recurring (more than one
    account).

DESCRIPTIONS
    The [account] section
    user = name
        account name, required

    pwd = password
        password for account, required

    hostname = hostname
        host from which user connection is allowed

    betatunnel = <CAID>.<ServiceID>:<target
    CAID>[,<CAID>.<ServiceID>:
    <target CAID>]...
        define Betacrypt tunneling (max. see CS_MAXTUNTAB in
    globals.h).
        The ServiceID can also be used for wilddcarded CAIDs.

        example: betatunnel = 0100:0001:0200,0300.0004:0500
        betatunnel = 0600:FFFF:0700

    uniq = 0|1|2
        unique level:
        0 = disabled, default
        1 = only one connection per user is allowed
        2 = set user to fake if source ip is different
        (e.g. for newcamd clients with different CAIDs and
    ports)

    sleep = minutes
        time waiting for inactive user, default:none

    caid = <CAID>[&<mask>][:<CAID>[&<mask>]]...
        limit CAIDs, default:all CAIDs, required

        example: caid = 0100&ffff:0200:0300&ff00

    au = label of reader|1
        AU setting:
        label of reader = sending EMMs to specified reader
        (security issue: client can see SC data!)
```

```

    1                = auto AU is sending EMMs to all readers
                    (security issue: client can see SC data!)
    default:none

group = group[,<group>]...
    user assingment to reader group, default=none, required

services = [!]<services>[, [!]<services>]...
    user [de]assingment to service group, default:none

ident = <CAID>:<ident>[, <CAID>:<ident>]...
    user assingment to idents, default:none

class = [!]<class>[, [!]<class>]...
    user [de]assingment to classes, default=none

    example: class = 01,02,!03,!04

chid = <CAID>:<ChID>[, <CAID>:<ChID>]...
    user assingment to Irdeto ChID, default:none

monlevel = 0|1|2|3|4
    monitor level:

    0 = no access to monitor
    1 = only server and own procs
    2 = all procs, but viewing only, default
    3 = all procs, reload of oscam.user possible
    4 = complete access

numusers = quantity
    anti-cascading: user per account, 0 = anti-cascading
permitted,
    default:none

penalty = 0|1|2
    anti-cascading: level of penalty:
    0 = only logging, default
    1 = send fake CWs
    2 = disable user temporary

```

EXAMPLES

```

[account]
user      = username
pwd       = password
group     = 1
au        = myserialmousereader
services  = myservice
betatunnel = 0100.0001:0101,0100.0002:0101
caid      = 0100
ident     = 0100:000000
uniq      = 1

```

oscam.services:

```
NAME
    oscam.services - definition of services for OSCam

SYNOPSIS
    service definitions

DESCRIPTIONS
    The [<service name>] section
    service name section, service name sections are recurring,
    required

    caid = CAID[,CAID]...
        listing of CAIDs in hex

    provid = provider ID[,provider ID]...
        listing of provider IDs in hex

    srvid = service ID[,service ID]...
        listing of service IDs in hex

EXAMPLES
    [myservice]
    CAID=0100,0200,000A
    provid=000001,ABCDEF
    srvid=0001,0002,000A,000B
```

oscam.srvid:

```
NAME
    oscam.srvid - service ID configuration file for OSCam

SYNOPSIS
    service ID mappings

DESCRIPTIONS
    <srvid>:<name of service>
        mapping between service ID and name of service

EXAMPLES
    000A:my service 1
    00FF:my service 2
```

By acetatus