

# SVXLink

## SVXLink sources

- <https://github.com/dl1hrc/svxlink/tree/tetra-contrib/> - Custom version that passes ISSIs through SVXReflector, it also **has our patches applied to SVXReflector and ReflectorLogic**.
- <https://github.com/sm0svx/svxlink/> - Original version

## Note for owners of SVXLink nodes running TetraLogic

- Please use latest version of SVXLink software.
- Please use the same CALLSIGN in [ReflectorLogic] and [TetraLogic] to make our bridges pass talker ISSI correctly.

## Note for owners of SVXReflector servers for TETRA

- Please use latest version of SVXReflector (at least 16082023) software.
- Reflector to Reflector links does not pass originating ISSI.

## Administrating SVXLink bridges

# Disclaimer about information bellow

- **DockStation** is only available on the same host as TetraPack Core, so the target of following information in this article is a server administrator.
- **DockLogic** is an external Logic module is supplied outside SVXLink.

## Modules

- DockLogic.so - SVXLink Logic module that implements our own Dock IPC protocol, uses our own library CodecPack.so
- DockLogic.tcl - Supplementary script, required by SVXLink

## Environment variables

```
CODECPACK=/<path>/CodecPack.so
```

svxlink.conf

```
[GLOBAL]
MODULE_PATH=/opt/SVXLink/lib/svxlink
CFG_DIR=/opt/SVXLink/etc/svxlink/svxlink.d
LOGICS=DockLogic,ReflectorLogic
LINKS=Link
TIMESTAMP_FORMAT="%c"

# Should be always 8 KHz!
CARD_SAMPLE_RATE=8000

[DockLogic]
TYPE=Dock
RX=Rx1
TX=Tx1
CALLSIGN=<Node call, should be completely the same as ReflectorLogic has>
EVENT_HANDLER=/opt/SVXLink/share/svxlink/events.tcl

# TetraPack Core IPC socket path
SOCKET=/tmp/Dock-<TetraPack Core ID>
```

# GSSI at TetraPack Core

GSSI=<GSSI of talk group at TetraPack>

# Default ISSI (used when ISSI is unknown)

ISSI=9999

# MNI for Qso:info messages (4 digits for MCC and 5 digits for MNC)

MNI=090116383

[Rx1]

TYPE=Dock

[Tx1]

TYPE=Dock

# Delay (in 60 ms frames) in bridged call start (SVXLink -> TetraPack), required for ISSI detection heuristics

DELAY=5

# Gain before encoding to ACELP (0.1 .. 1.0, default is 0.5)

GAIN=0.5

[ReflectorLogic]

TYPE=Reflector

HOSTS=<SVXReflector's DNS/IP address>

CALLSIGN="<Node call>"

AUTH\_KEY="<Key>"

UDP\_HEARTBEAT\_INTERVAL=5

DEFAULT\_TG=<Bridged SVXReflector's TG>

MONITOR\_TGS=<Bridged SVXReflector's TG>

EVENT\_HANDLER=/opt/SVXLink/share/svxlink/events.tcl

MUTE\_FIRST\_TX\_LOC=0

MUTE\_FIRST\_TX\_REM=0

[Link]

CONNECT\_LOGICS=DockLogic,ReflectorLogic

DEFAULT\_ACTIVE=1

TIMEOUT=0

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