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```

## SOCK sample driver README

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### 1.0 PREREQUISITES

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The release levels are the following:  
maketpf/bldtpf tool for z/TPF 1.1

### 2.0 INSTALLATION

- 1) FTP the tar file (sock.tar.gz) to your linux system. This can be placed in any directory as a holding location, for example: /tmp/ztpftar
- 2) Create a root directory that will hold the unpacked files, for example: /ztpfdrvs
- 3) Extract the source code from the tar file by entering the following commands:  
cd /ztpfdrvs  
tar -xvzf /tmp/ztpftar/sock.tar.gz

The driver source files will be extracted in the following directory structure:

sock/a2e.h  
sock/iptethd\_sock.h  
sock/qssc.c  
sock/qssc.mak  
sock/qssd.c  
sock/qssd.mak  
sock/qssl.c  
sock/qssl.mak  
sock/qssm.c  
sock/qssn.c  
sock/qssn.mak  
sock/qssso.c  
sock/qssso.mak  
sock/qssp.c  
sock/qssp.mak  
sock/qssq.c  
sock/qssq.mak  
sock/qssr.c  
sock/qssr.mak  
sock/qsss.c  
sock/qsss.mak  
sock/qsst.c  
sock/qxy7.c  
sock/qxy7.mak  
sock/qxy8.c  
sock/qxy9.c  
sock/qxya.c

sock/qxya.mak  
sock/qxyb.c  
sock/qxyc.c  
sock/qxyd.c  
sock/qxye.c  
sock/qxyf.c  
sock/qxyg.c  
sock/qxyh.c  
sock/qxyi.c  
sock/qxyj.c  
sock/qxyk.c  
sock/qxyk.mak  
sock/qxyl.c  
sock/qxyl.mak  
sock/qxym.c  
sock/qxym.mak  
sock/qxyn.c  
sock/qxyn.mak  
sock/qxyo.c  
sock/qxyo.mak  
sock/qxyp.c  
sock/qxyp.mak  
sock/qxyq.c  
sock/qxyr.c  
sock/qxys.c  
sock/qxyt.c  
sock/qxyu.c  
sock/qxyv.c  
sock/qxyw.c  
sock/qxyx.c  
sock/qxyy.c  
sock/qxyz.c  
sock/qxz3.c  
sock/qxz3.mak  
sock/qxz4.c  
sock/qxz4.mak  
sock/qxz8.c  
sock/qxz8.mak  
sock/qxza.c  
sock/qxzb.c  
sock/qxzc.c  
sock/qxzd.c  
sock/qxze.c

sock/qxzf.c  
sock/qxzg.c  
sock/qxzi.c  
sock/qxzej.c  
sock/qxzo.c  
sock/qxzo.mak  
sock/qxzc.c  
sock/qxzc.mak  
sock/qxzs.c  
sock/qxzs.mak  
sock/qxzt.c  
sock/qxzt.mak  
sock/qxzu.c  
sock/qxzu.mak  
sock/qxzc.c  
sock/qxzc.mak  
sock/qxzw.c  
sock/qxzw.mak  
sock/qxzc.c  
sock/qxzc.mak  
sock/sock.cntl  
sock/sockclient.c  
sock/sockclient.mak

4) Create a maketpf.cfg file with the following contents:

```
APPL_ROOT := /ztpfdrvs  
TPF_ROOT := /ztpf  
TPF_BSS_NAME := BSS  
#TPF_SS_NAME := WP  
#USER_VERSION_CODE :=
```

- a) Set APPL\_ROOT to the directory containing the driver source code extracted.
- b) Set TPF\_ROOT to the directory containing the z/TPF source code.
- c) Set TPF\_BSS\_NAME to the basic subsystem name of your TPF system. By default, this is set to BSS.
- d) Optionally, set the TPF\_SS\_NAME to the subsystem name.
- e) Optionally, set USER\_VERSION\_CODE to any desired two-character string for user version code for the shared objects built. By default, this is set to null.

Refer to the maketpf tool documentation for details on these variables.

5) Build the USRSTUB program after adding the SOCK driver control file to your user control file.

a) Add the following line to your user control file base/cntl/usr.cntl

```
include sock/sock.cntl
```

b) Build the USRSTUB program to generate stubs for the driver programs using the following command:

```
maketpf USRSTUB -f
```

6) Run the maketpf tool with the accompanied control file (sock.cntl) to assemble, compile, and link the driver programs:

```
bldtpf /ztpfdrvs/sock/sock.cntl
```

7) Use the standard load procedure to transfer and load the following driver programs to the TPF system:

```
qssc.o qssd.o qssl.o qssn.o qss.o qssp.o qssq.o qssr.o qsss.o qxy7.o  
qxya.o qxyk.o qxyl.o qxym.o qxyn.o qxyo.o qxyp.o qxz3.o qxz4.o qxz8.o  
qxzo.o qxzr.o qxzs.o qxzt.o qxzu.o qxzv.o qxzw.o qxzx.o soclclient.o
```

See Program Management for more information about building and loading programs to the TPF system.

### 3.0 CUSTOMIZATION

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Update base/rt/cvzz.asm (or the tool that executes driver programs) to make an entry for this driver. The shared object QXYA is the main entry point for this driver.

Build and load the updated CVZZ program to the TPF system.

### 4.0 RUNNING THE DRIVER

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To properly set up the system for the SSL driver, the following procedures need to be performed on the TPF system.

1. Make sure MTHD value in CTKA is not zero. Use ZCTKA DISP THREAD to display the value.  
Use ZCTKA ALT MTHD-100 to alter the value and ZRIPL.
2. Make sure SSLPROC and SSLTHRD in CTK2 are not 0. ZNKEY SSLPROC & ZNKEY SSLTHRD.
3. Create a CERTS directory on the file system via zfile mkdir certs.
- 4 FTP the certificate to TPF file system under CERTS directory. Have all the certificate with 777 permission: ZFILE chmod 777 /CERTS/...

Please read the user's guide, available in Portable Document Format (PDF), provided along with this driver for more information about running the driver.

You can also issue ZTEST SOCK HELP for the online help display.

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