

libosdp Test Programs

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For TLS

osdp-net-server and osdp-net-client are the TLS server and client respectively. Each one runs the open-osdp code. Configuration details are read from open-osdp-params.json.

Configuration

Roles Summary

the OSDP role (CP or PD) is based on the config file value. In the networking cases either the PD or the CP can be listening for a network connection from the other end.

Certificates

Both sides need certificates and keys. Each side has to be configured to trust the root that issued the other end's cert. For the test program, the Common Name field of the Subject Name must be set in the config file as GnuTLS checks this.

Files

"make release" makes a file structure starting at opt, built to be loaded from the root. The directory structure is

```
/opt/open-osdp/bin
/opt/open-osdp/etc
/opt/open-osdp/run/CP
/opt/open-osdp/run/PD
```

bin - programs osdp-net-client, osdp-net-server

etc - certificate files ca_keys.pem (for root key), key.pem (private key for server), cert.pem (certificate for server), client_key.pem (private key for client), client_cert.pem (cert for client.)

run/CP - directory where CP is run

run/PD - directory where PD is run

run/MON - directory where Monitoring is run

PD configuration

run in /opt/open-osdp/run/PD. run the program /opt/open-osdp/bin/osdp-net-server. it writes to

open_ospd.log, it reads it's config from open-osdp-params.json.

- set it to be the PD
- set the verbosity
- set the fqdn to the CN field of the other end's certificate.
- if it's the client set the ip address of the server
- set the test card data

An example configuration is in the doc directory as open-osdp-params-PD.json

CP Configuration

run in /opt/open-osdp/run/CP. run the program /opt/open-osdp/bin/osdp-net-client. it writes to open_ospd.log, it reads it's config from open-osdp-params.json. There has to be something listening at the destination address or else the program fails.

- in /opt/open-osdp/run/CP
- file open-osdp-params.json is the config file
- set it to be the CP
- set the verbosity
- set the fqdn to the CN field of the other end's certificate.
- if it's the client set the ip address of the server

An example configuration is in the doc directory as open-osdp-params-CP.json

Demo VM

See separate documentation. This is a Debian 7 vm running the code out of /opt/open-ospd. with a web server on port 80 running a UI.