

# TCM User Guide

TCM – Test Case Manager, is used to manage your “File State Databases” (which are used by CART).

Usage:

```
./tcm.py <version> [create|clear|verify|install|edit] <name> [path/to/myfile]
```

<version> : a version file in ./testpackages/\* (without the '.conf' extension)

<name> : name of file to make.

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## The CONFIG variable

**IMPORTANT..** check the value of variable called “CONFIG” in tcm.py.

```
CONFIG = "testpackages"
```

This has to match the value that CART uses to find your \*.conf files.

Example

```
[victor@VCCCK_DEV cart]$ ll testpackages/
total 12
drwxrwxr-x. 4 victor victor 4096 Dec 30 11:00 files
-rw-rw-r--. 1 victor victor 277 Dec 30 12:22 v1.000.conf
-rw-rw-r--. 1 victor victor 282 Dec 29 12:32 v1.100.conf
```

Right now CART uses “ testpackages” for that directory. Make sure TCM's value is same. It's just where your v1.000.conf, v1.100.conf, etc files are.

This should really never change.

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# Glossary

FSDB – file state database.

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## CREATE operation

To create a File State database ( FSDB) , simply create all required files and directories then run...

```
[victor@VCKK_DEV cart]$ ./tcm.py v1.000 create mytest
```

VERSION: v1.000

OPERATION: create

NAME: mytest

\*WARNINGS:

dir 'kk' - doesn't exist.

This will create a file in

**testpackages/files/v1.000/mytest.tar.gz**

It builds that path based on the VERSION and NAME parameters at the command line.

How does it know to say there is a warning about missing directory “kk” ???

TCM consults (continuing the example above), “**testpackages/v1.000.conf**”...

it opens testpackages/v1.000.conf and checks for lines “state\_dirs = ...” and “state\_files = ...”

Any files that are given in the “state\_files” that do not exist when it creates the FSDB, you are told.

For example, if **testpackages/v1.000.conf** says there should be a file “myfile” when you create a v1.000 FSDB, and you don't have one, it warns about it.

Reason is – we want to enforce, for example, when creating any v1.000 FSDB, that certain files and folders are included.

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## CLEAR operation

If you want to get rid of all files that are part of a given FSDB, use “clear”.

This deletes all files/folders that were installed in (copied from being extracted from testpackages/files/v1.000/).

Example, if you used “create” to extract all files that are in testpackages/files/v1.000/myFsdb.tar.gz, then use “clear” to remove all those files.

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## INSTALL operation

If you issue the command..

```
./tcm.py v1.000 install myfsdb
```

TCM will do...

```
tar xzf testpackages/files/v1.000/myfsdb -C .
```

It unzips and extracts the given FSDB and puts into current directory (where vcck.py, cart.py, tcm.py exist). The files are appear can be later removed by “clear” operation.

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## VERIFY operation

If you create an FSDB it is for specific version of VCCCK. If we have an FSDB called “my.v.1000.fsdb.tar.gz” (in testpackages/files/v1.000/), then it SHOULD have all the files/directories specified in the “state\_dirs = “ and “state\_files = “ in the testpackages/v1.000.conf file. Is there a way to check if **my.v.1000.fsdb.tar.gz** really DOES have those folders and files ?? Yes, with “verify” operation.

Issue the command...

```
./tcm.py v1.000 verify my.v.1000.fsdb
```

TCM will tell you if my.v.1000.fsdb.tar.gz is missing any files/folders (according to testpackages/v1.000.conf ).

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## EDIT operation

What if you wanted to change a file in **my.v.1000.fsdb.tar.gz** ( where it exists in testpackages/files/v1.000/ ) ??

Let's say the archive (FSDB) **./testpackages/files/v1.000/ my.v.1000.fsdb.tar.gz** contained the following...

```
./subdir_1/file_x.txt
./file_y.txt
```

So file\_y.txt is in the root directory of the FSDB tar.gz. And file\_x.txt is in a subdirectory ('subdir\_1') of the FSDB tar.gz file.

How can we update these two files?? Easy.. place files with the same name in the “updates” folder (sub directory of where ./tcm.py is).

```
./updates/file_x.txt
./updates/file_y.txt
```

So ./updates/file\_x.txt will end up overwriting /subdir\_1/file\_x.txt inside **./testpackages/files/v1.000/ my.v.1000.fsdb.tar.gz** .

And ./updates/file\_y.txt will end up overwriting ./file\_y.txt inside **./testpackages/files/v1.000/ my.v.1000.fsdb.tar.gz** .

To make the change to **file\_x.txt**, run....

```
./tcm.py v1.000 edit my.v.1000.fsdb /subdir_1/file_x.txt
```

TCM will then edit the FSDB file **./testpackages/files/v1.000/ my.v.1000.fsdb.tar.gz** and replace /subdir\_1/file\_x.txt with file ./updates/ file\_x.txt.

Of course it doesn't do that “inline” – it unzips, extracts, overwrites, and then does a “create”.

To replace file\_y.txt inside **./testpackages/files/v1.000/ my.v.1000.fsdb.tar.gz** with ./updates/file\_y.txt... just issue...

```
./tcm.py v1.000 edit my.v.1000.fsdb /file_y.txt
```

that's it !!

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