



Red Hat Enterprise Linux Release 9.2 Manual Pages on 'tpm2_sessionconfig.1' command

\$ man tpm2_sessionconfig.1

tpm2_sessionconfig(1) General Commands Manual tpm2_sessionconfig(1)

NAME

tpm2_sessionconfig(1) - Configure session attributes and print session info from a session file.

SYNOPSIS

tpm2_sessionconfig [OPTIONS] [ARGUMENT]

DESCRIPTION

tpm2_sessionconfig(1) - Configure session attributes and print session info from a session file.

The tool operates in one of two modes: 1. Configure/ modify the session attributes. 2. Print the session information. This is the default behavior.

OPTIONS

? --enable-continuesession:

Enable continueSession in the session-attributes.

? --disable-continuesession

Disable continuesession in the session-attributes.

? --enable-auditexclusive

Enable auditexclusive in the session-attributes.

? --disable-auditexclusive

Disable auditexclusive in the session-attributes.

? --enable-auditreset

Enable auditreset in the session-attributes.

? --disable-auditreset

Disable auditreset in the session-attributes.

? --enable-decrypt

Enable decrypt in the session-attributes.

? --disable-decrypt

Disable decrypt in the session-attributes.

? --enable-encrypt

Enable encrypt in the session-attributes.

? --disable-encrypt

Disable encrypt in the session-attributes.

? --enable-audit

Enable audit in the session-attributes.

? --disable-audit

Disable audit in the session-attributes.

? ARGUMENT the session context file.

References

COMMON OPTIONS

This collection of options are common to many programs and provide information that many users may expect.

? -h, --help=[man|no-man]: Display the tools manpage. By default, it attempts to invoke the manpager for the tool, however, on failure will output a short tool summary. This is the same behavior if the ?man? option argument is specified, however if explicit ?man? is requested, the tool will provide errors from man on stderr. If the ?no-man? option is specified, or the manpager fails, the short options will be output to stdout.

To successfully use the manpages feature requires the manpages to be installed or on MANPATH, See man(1) for more details.

? -v, --version: Display version information for this tool, supported tctis and exit.

? -V, --verbose: Increase the information that the tool prints to the console during its execution. When using this option the file and line number are printed.

? -Q, --quiet: Silence normal tool output to stdout.

? -Z, --enable-errata: Enable the application of errata fixups. Useful if an errata fixup needs to be applied to commands sent to the TPM.

Defining the environment TPM2TOOLS_ENABLE_ERRATA is equivalent. Information many users may expect.

TCTI Configuration

The TCTI or Transmission Interface is the communication mechanism with the TPM. TCTIs can be changed for communication with TPMs across different mediums.

To control the TCTI, the tools respect:

1. The command line option -T or --tcti
2. The environment variable: TPM2TOOLS_TCTI.

Note: The command line option always overrides the environment variable.

The current known TCTIs are:

? tabrmd - The resource manager, called tabrmd (<https://github.com/tpm2-software/tpm2-abrmd>). Note that tabrmd and abrmd as a tcti name are synonymous.

? mssim - Typically used for communicating to the TPM software simulator.

? device - Used when talking directly to a TPM device file.

? none - Do not initialize a connection with the TPM. Some tools allow for off-tpm options and thus support not using a TCTI. Tools that do not support it will error when attempted to be used without a TCTI connection. Does not support ANY options and MUST BE presented as the exact text of ?none?.

The arguments to either the command line option or the environment variable are in the form:

<tcti-name>:<tcti-option-config>

Specifying an empty string for either the <tcti-name> or <tcti-option-config> results in the default being used for that portion respectively.

TCTI Defaults

When a TCTI is not specified, the default TCTI is searched for using `dlopen(3)` semantics. The tools will search for `tabrmd`, `device` and `mssim` TCTIs IN THAT ORDER and USE THE FIRST ONE FOUND. You can query what TCTI will be chosen as the default by using the `-v` option to print the version information. The `?default-tcti?` key-value pair will indicate which of the aforementioned TCTIs is the default.

Custom TCTIs

Any TCTI that implements the dynamic TCTI interface can be loaded. The tools internally use `dlopen(3)`, and the raw `tcti-name` value is used for the lookup. Thus, this could be a path to the shared library, or a library name as understood by `dlopen(3)` semantics.

TCTI OPTIONS

This collection of options are used to configure the various known TCTI modules available:

`? device:` For the device TCTI, the TPM character device file for use by the device TCTI can be specified. The default is `/dev/tpm0`.

Example: `-T device:/dev/tpm0` or `export TPM2TOOLS_TCTI=?device:/dev/tpm0?`

`? mssim:` For the `mssim` TCTI, the domain name or IP address and port number used by the simulator can be specified. The default are `127.0.0.1` and `2321`.

Example: `-T mssim:host=localhost,port=2321` or `export TPM2TOOLS_TCTI=?mssim:host=localhost,port=2321?`

`? abrmd:` For the `abrmd` TCTI, the configuration string format is a series of simple key value pairs separated by a ``,'` character. Each key and value string are separated by a ``='` character.

`? TCTI abrmd` supports two keys:

1. ``bus_name'`: The name of the `tabrmd` service on the bus (a string).
2. ``bus_type'`: The type of the dbus instance (a string) limited to ``session'` and ``system'`.

Specify the `tabrmd` tcti name and a config string of `bus_name=com.example.FooBar`:

```
\--tcti=tabrmd:bus_name=com.example.FooBar
```

Specify the default (abrmd) tcti and a config string of bus_type=sess?

sion:

```
\--tcti:bus_type=session
```

NOTE: abrmd and tabrmd are synonymous. the various known TCTI mod?

ules.

EXAMPLES

Start a bounded & salted session, disable continuesession and display ses?

sion

```
tpm2 createprimary -c prim.ctx
```

```
tpm2 startauthsession -S session.ctx --policy-session -c prim.ctx
```

```
### Session info before changing attributes
```

```
tpm2 sessionconfig session.ctx
```

```
### Session info after changing attributes
```

```
tpm2 sessionconfig --disable-continuesession
```

```
tpm2 sessionconfig session.ctx
```

Returns

Tools can return any of the following codes:

? 0 - Success.

? 1 - General non-specific error.

? 2 - Options handling error.

? 3 - Authentication error.

? 4 - TCTI related error.

? 5 - Non supported scheme. Applicable to tpm2_testparams.

BUGS

Github Issues (<https://github.com/tpm2-software/tpm2-tools/issues>)

HELP

See the Mailing List (<https://lists.01.org/mailman/listinfo/tpm2>)

tpm2-tools

tpm2_sessionconfig(1)