

Test Data Management

Software Version 24.2.0

Command-Line Interface (CLI) Guide

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Document Release Date: April 2024
Software Release Date: April 2024

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TDM - Command-Line Interface (CLI)

This document contains a brief overview of the main components and functions offered by the **TDM-CLI** tool.

In the TDM web interface, test cases and test suites are typically defined under a project. Test cases are linked to either a synthetic flow or a business flow. When executed from the web interface, the relevant business and synthetic flows run accordingly.

With **TDM CLI**, the execution of these test cases and suites becomes accessible for external invocation. **TDM CLI** can be seamlessly integrated with any CI/CD tool, thereby automating the execution of test cases and suites.

Prerequisite for TDM CLI

TDM CLI machine must have access to port 8181 (by default) of the TDM SDG Engine machine.

NOTE: It is strongly recommended to create a separate user for the **TDM CLI** from the **SDM User Management Console**.

TDM CLI Installation

For Windows

- Download `tdm.exe` from the `TDM_Installation` folder.
- Move the executable file to a directory in your `PATH`.
- To do this, the file must be moved to the `C:\Windows\System32` folder.

For Linux

- Download `tdm` from the `TDM_Installation` folder.
- Move the file to the folder `/usr/local/bin`.
- To do this, follow the commands below.

```
> cd <path_to_tdm_downloaded_folder>  
> sudo chmod +x tdm  
> sudo mv tdm /usr/local/bin/
```

TDM CLI Usage

After installing the **TDM-CLI**, run it with the following command to check if it is working.

```
> tdm.exe or tdm
```

Insecure Mode

The global `--insecure` flag is used to run the tool in insecure mode. This mode disables the server's SSL certificate verification, which may expose the application to man-in-the-middle attacks. This flag should only be used in development or test environments where servers may use self-signed certificates that are not issued by a trusted Certificate Authority (CA). In production environments, always run the tool without the `--insecure` flag to ensure server authentication is enabled. `--insecure` flag can be used with any `tdm` command.

An example of `--insecure` flag usage is given below.

```
> tdm ... --insecure
```

TDM-CLI supports three main flags, their sub flags and the help command.

LOGIN

It is used to authenticate and save configuration settings. This command saves the configuration settings to a file named `.tdmconf`, which is used for subsequent case and suite runs.

```
> tdm login --endpoint "<endpoint>" --username "<username>" --password "<password>"  
--expiration "<expirationdate>"
```

Here is an example of how to use the login command:

```
EXAMPLE: > tdm login --endpoint "http://127.0.0.1:8000/api/v1" --username  
"admin" --password "pwd123" --expiration "2025-03-18T11:27:59.699Z"
```

To login in insecure mode, add the `--insecure` flag:

```
> tdm login --endpoint "<endpoint>" --username "<username>" --password "<password>"  
--expiration "<expirationdate>" --insecure
```

Here is an example of how to use the login command with `--insecure` flag:

```
EXAMPLE: > tdm login --endpoint "https://127.0.0.1:8000/api/v1" --username  
"admin" --password "pwd123" --expiration "2025-03-18T11:27:59.699Z" --insecure
```

CASE

It is used to manage TDM Test Data Generation Cases.

- case command is to specify test cases;
- run is to start the case run.

The following command runs a specific test case identified by its ID. It also requires a parameter file from the user containing case parameters:

```
> tdm case run --id <id> --param-path "</path/to/caseparams.json>"
```

Here is an example of how to use the case command;

```
EXAMPLE: > tdm case run --id 12345 --param-path "/path/to/caseparams.json"
```

To run a specific test case in insecure mode, add the `--insecure` flag:

```
> tdm case run --id <id> --param-path "</path/to/caseparams.json>" --insecure
```

The parameter file should be in the following format:

```
[  
  {  
    "Key": "testkey1",  
    "Value": "2001.06.06",  
    "DataType": "DATE"  
  },  
  {  
    "Key": "a_testkey2",  
    "Value": "1",  
    "DataType": "NUMBER"  
  }  
]
```

The following command runs a specific test case identified by its ID, using a parameter file from the default location containing case parameters:

```
> tdm case run --id <id>
```

To run a specific test case in insecure mode, add the `--insecure` flag:

```
> tdm case run --id <id> --insecure
```

SUITE

It is to specify test suites;

run is to start the suite run.

The following command runs a specific test suite identified by its ID. It also requires a parameter file from the user containing suite parameters:

```
> tdm suite run --id <id> --param-path "</path/to/suite/file.json>"
```

Here is an example of how to use the suite command;

```
EXAMPLE: > tdm suite run --id 12345 --param-path "/path/to/suite/file.json"
```

To run a specific test suite in insecure mode, add the `--insecure` flag:

```
> tdm suite run --id <id> --param-path "</path/to/suite/file.json>" --insecure
```

The parameter file should be in the following format:

```
[
  {
    "caseId": 1,
    "testCaseName": "TestSuite1",
    "caseParameterList": [
      {
        "key": "startDate",
        "value": "2022-01-01",
        "dataType": "DATE"
      },
      {
        "key": "limit",
        "value": "10",
        "dataType": "NUMBER"
      }
    ]
  },
  {
    "caseId": 2,
    "testCaseName": "TestSuite2"
  },
  {
    "caseId": 3,
    "testCaseName": "TestSuite3"
  }
]
```

The following command runs a specific test suite identified by its ID, using a parameter file from the default location containing suite parameters:

```
> tdm suite run --id <id>
```

To run a specific test suite in insecure mode, add the `--insecure` flag:

```
> tdm suite run --id <id> --insecure
```

HELP

It provides information about how to use the application and its flags.

This command displays a help message with information about the application's commands and their usage.

```
> tdm --help
```

This command displays a help message with information about the login command, its sub commands, and any flags that can be used with it.

```
> tdm login --help
```

This command displays a help message with information about the case run command, its sub commands, and any flags that can be used with it.

```
> tdm case run --help
```

This command displays a help message with information about the suite run command, its sub commands, and any flags that can be used with it.

```
> tdm suite run --help
```