



**TEC-IT**

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# TFPrint

## Command Line Printing Tool

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Version 5.1

## User Manual

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TEC-IT Datenverarbeitung GmbH  
Wagnerstrasse 6  
A-4400 Steyr, Austria

t ++43 (0)7252 72720  
f ++43 (0)7252 72720 77  
office@tec-it.com  
www.tec-it.com

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TEC-IT Datenverarbeitung GmbH  
Wagnerstr. 6

A-4400 Austria  
t.: +43 (0)7252 72720  
f.: +43 (0)7252 72720 77  
<http://www.tec-it.com>

## 3 Command Line Printing

### 3.1 General

The command line based version of **TFORMer Runtime** is available for all supported operating systems (Microsoft® Windows®, Linux® and UNIX®). It generates output based on arbitrary document layouts created with **TFORMer Designer**.

The executable is named *tfprint* (or *tfprint.exe* on Microsoft Windows) and can be used

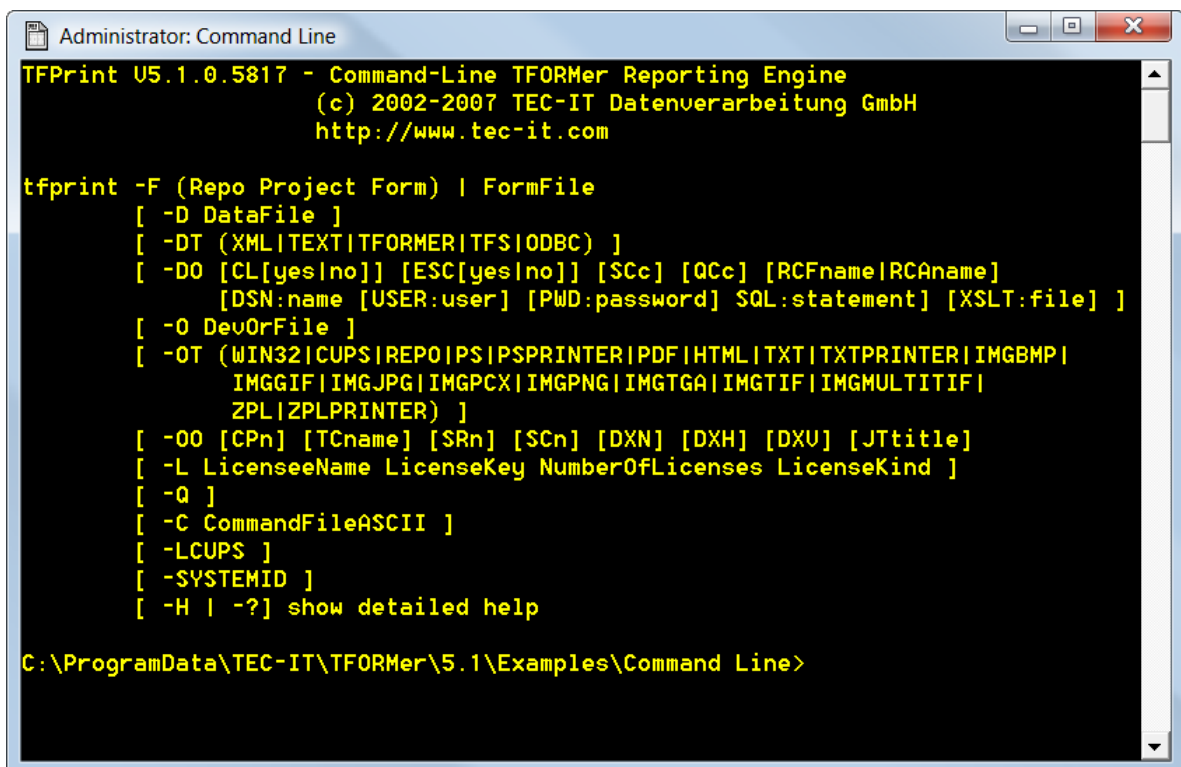
- on its own (executed manually),
- as part of batch-jobs or shell-scripts,
- via “shell-execute” as “out-of-process” reporting engine,
- as extension for printer filter applications on Linux/UNIX.

### 3.2 Outline

The general steps for using *tfprint* are:

1. Create the required form layouts using **TFORMer Designer**.
2. Provide data for the form layouts via XML, CSV, TXT or ODBC data-sources.
3. Embed *tfprint* into your batch-job, shell-script or applications.

- ▶ On Microsoft Windows the files for the form layouts or file-based data-sources (XML, CSV or TXT) may be provided as a filename (as file stored in the file-system) or as http-based URL.



```
Administrator: Command Line
TFPrint U5.1.0.5817 - Command-Line TFORMer Reporting Engine
(c) 2002-2007 TEC-IT Datenverarbeitung GmbH
http://www.tec-it.com

tfprint -F (Repo Project Form) | FormFile
[ -D DataFile ]
[ -DT (XML|TEXT|TFORMER|FMS|ODBC) ]
[ -DO [CL[yes|no]] [ESC[yes|no]] [SCc] [QCc] [RCFname|RCAname]
[DSN:name [USER:user] [PWD:password] SQL:statement] [XSLT:file] ]
[ -O DevOrFile ]
[ -OT (WIN32|CUPS|REPO|PS|PSPRINTER|PDF|HTML|TXT|TXTPRINTER|IMGBMP|
IMGGIF|IMGJPG|IMGPCX|IMGPNG|IMGTGA|IMGTIF|IMGMULTITIF|
ZPL|ZPLPRINTER) ]
[ -OO [CPn] [TCname] [SRn] [SCn] [DXN] [DXH] [DXU] [JTtitle]
[ -L LicenseName LicenseKey NumberOfLicenses LicenseKind ]
[ -Q ]
[ -C CommandFileASCII ]
[ -LCUPS ]
[ -SYSTEMID ]
[ -H | -?] show detailed help

C:\ProgramData\TEC-IT\TFORMer\5.1\Examples\Command Line>
```

Figure 1: TFPrint

When using *tfprint* to generate output you need at least 3 parameter groups:

- Form layout (command line parameter *-F*)
- Data-source (command line parameters *-D, -DT, -DO*)
- Type and target of the generated output (command line parameters *-O, -OT, -OO*)

### 3.3 Syntax

If you start *tfprint* without command line parameters, the following help text is displayed. It shows you the syntax and all available parameters of *tfprint* in short form. For more detailed information about command line parameters use the command *tfprint -?* or *tfprint -H*.

```
TFPrint V5.1.0.5817 - Command-Line TFORMer Reporting Engine
(c) 2002-2007 TEC-IT Datenverarbeitung GmbH
http://www.tec-it.com

tfprint -F (Repo Project Form) | FormFile
[ -D DataFile ]
[ -DT (XML|TEXT|TFORMER|TFS|ODBC) ]
[ -DO [CL[yes|no]] [ESC[yes|no]] [SCc] [QCc] [RCfname|RCaname]
      [DSN:name [USER:user] [PWD:password] SQL:statement] [XSLT:file] ]
[ -O DevOrFile ]
[ -OT (WIN32|CUPS|REPO|PS|PSPRINTER|PDF|HTML|TXT|TXTPRINTER|IMGBMP|
      IMGGIF|IMGJPG|IMGPCX|IMGPNG|IMGTGA|IMGTIF|IMGMULTITIF|
      ZPL|ZPLPRINTER) ]
[ -OO [CPn] [TCname] [SRn] [SCn] [DXN] [DXH] [DXV] [JTtitle]
[ -L LicenseName LicenseKey NumberOfLicenses LicenseKind ]
[ -Q ]
[ -C CommandFileASCII ]
[ -LCUPS ]
[ -SYSTEMID ]
[ -H | -?] show detailed help
```

#### 3.3.1 Samples

If you want to print the stand-alone form *sample.tff* you could use the following command:

```
tfprint -F C:\sample.tff
```

This command will print the form *sample.tff* to the default windows printer. The input data will be retrieved from the file *C:\sample.xml* automatically. This is the data file which is generated by the *Data Wizard* in **TFORMer Designer** (= internal **TFORMer** data).

Of course you can also specify any other data file:

```
tfprint -F C:\sample.tff -D "C:\Form Data\data.csv" -DT TEXT -DO SC;
```

The file *data.csv* uses the semicolon (“;”) as column separator.

▶ When using a text input file make sure to always specify the column separator!

If you prefer using an ODBC connection for importing your data, the syntax will look like this:

```
tfprint -F C:\sample.tff -DT ODBC -DO DSN:DSN=TFORMer Sample SQL:"SELECT * FROM
tbl_Example"
```

In order to print a form from a repository, you have to specify the name of the repository, the name of the project and the name of the form:

```
tfprint -F "C:\TFORMER Repositories\MyRepository\MyRepository.tfr" MyProject MyReport -O
"C:\output.pdf" -OT PDF
```

In the previous sample the output will be saved as PDF document.

## 3.4 Syntax in Detail

### 3.4.1 Form Layout

Use the following parameters to specify the form. This command line switch is mandatory.

```
-F [ (Repo Project Form) | FormFile ]
```

<b>-F Repo Project Form</b>	<p>Specifies a form stored in a specific project of a repository.</p> <p>Repo .....File name of the repository (*.tfr).                  Project .....Name of project within repository.                  Form .....Name of form within project.</p> <p>Example:</p> <pre style="background-color: #f0f0f0; padding: 2px;">-F C:\MyRepository.tfr MyProject MyForm</pre>
<b>-F FormFile</b>	<p>Specifies a stand-alone form.</p> <p>FormFile.....File name of the stand-alone form (*.tff).</p> <p>Example:</p> <pre style="background-color: #f0f0f0; padding: 2px;">-F C:\MyStandAloneForm.tff</pre>

### 3.4.2 Data-Source

Use the following parameters to specify the data file. If no data file is specified, *tfprint* will use the internal **TFORMer** data (which was last entered in the **TFORMer Data Wizard**). If a data file was specified (-D) it is mandatory to specify the type of the data file (-DT).

```
[ -D DataFile ]
[ -DT (XML|TEXT|TFORMER|TFS|ODBC) ]
[ -DO [CLyes|CLno] [ESCyes|ESCno] [SCc] [QCc] [RCFname|RCAname] ]
[DSN:name [USER:user] [PWD:password] SQL:statement] [XSLT:file]
```

<b>-D DataFile</b>	<p>Specifies the data file. This switch is skipped for ODBC import.</p> <p>DataFile .....Name of the data file.</p> <p>Example:</p> <pre style="background-color: #f0f0f0; padding: 2px;">-D C:\MyDataFile.csv -DT TEXT</pre>
<b>-DT ( XML   TEXT   TFORMER   TFS   ODBC )</b>	<p>Specifies the type of the data file given with the -D option.</p> <p>XML .....XML input file.                  TEXT .....ASCII input file (in CSV format).                  TFORMER .....Internal TFORMer data file (XML).                  TFS.....TFORMer Server compatible data file (XML).                  ODBC .....ODBC data-source.</p>
<b>-DO [CLyes   CLno] [ESCyes   ESCno] [SCc] [QCc] [RCFname   RCAname] [DSN:name] [USER:user] [PWD:password] SQL:statement] [XSLT:file]</b>	<p>Specifies the options for the data file given with the -D option.</p> <p>CLyes .....Optional. Clear data-fields between records.                  CLno .....Optional. Do not clear data-fields between records (default).</p> <p>ESCyes.....Optional. Handle escape-sequences in input data.                  ESCno .....Optional. Do not handle escape-sequences in input data (default).</p> <p>Input data options for text files (for -DT TEXT only):</p> <p>SCc.....Specifies the column separator character c.                  (e.g. SC; for the separator character ";")                  For more information on specifying column separators, please see below.</p>

	<p>QCC .....Optional. Specifies the text qualifier character c. For more information on specifying text qualifiers, please see below.</p> <p>Record count: RCFname .....Optional. Specifies the name of the file containing the record counter. RCAname .....Optional. Specifies the name of the attribute containing the record counter (-DT XML only).</p> <p>Import data via ODBC connection (for -DT ODBC only): DSN .....Name of the data source (connection string). USER.....Optional. User name for ODBC connection. PWD .....Optional. Password for ODBC connection. SQL .....SQL-Statement for selecting the data. XSLT.....Optional. XSLT file which is used for transforming the given XML input upon import.</p>
--	---

### 3.4.2.1 Specification of Column Separators

Char	Parameter	Description
TAB	SC\t	Specifies tab as column separator.
;	SC;	Specifies semicolon as column separator.
,	SC,	Specifies comma as column separator.
Space	SC\x20	Specifies space as column separator.
Other	SC\xNN	Any other character can be specified in hex-notation or literally.

### 3.4.2.2 Specification of Text Qualifiers

Char	Parameter	Description
"	QC\"	Specifies the double quote character as text qualifier.
'	QC'	Specifies the single quote character as text qualifier.
Other	QC\xNN	Any other character can be specified in hex-notation or literally.
		None

### 3.4.3 Output Device

Use the following parameters to specify the output device (or file).

If no output device is specified, *tfprint* will send the print job to the default Windows® printer.

```
[ -O DevOrFile ]
[ -OT (WIN32 | CUPS | REPO | PS | PSPRINTER | PDF | HTML | TXT | TXTPRINTER | IMGBMP |
      IMGGIF | IMGJPG | IMGPCX | IMGPNG | IMGTA | IMGTIF | IMGMULTITIF |
      ZPL | ZPLPRINTER) ]
[ -OO [CPn] [TCname] [SRn] [SCn] [DXN] [DXH] [DXV] [JTtitle]
```

<b>-O DevOrFile</b>	<p>Specifies the output device or file:</p> <p>DevOrFile.....Name of the output device or of the output file.</p> <p>Example:</p> <pre>-O "HP LaserJet 4050" -OT WIN32 -O C:\output.pdf -OT PDF</pre>
<b>-OT [ WIN32   CUPS   REPO   PS   PSPRINTER   PDF   HTML   TXT   TXTPRINTER   IMGBMP   IMGGIF   IMGJPG   IMGPCX  </b>	<p>Specifies the output type:</p> <p>WIN32.....DevOrFile is the name of Win32 printer. CUPS.....DevOrFile is the name of a CUPS printer (Linux). REPO .....DevOrFile is the name of a printer specified in the TFORMer repository. (Can be used in combination with the "-F Repo Project Form" switch only!)</p>

<b>IMGPNG   IMGTA   IMGTIF   IMGMULTITIF   ZPL   ZPLPRINTER]</b>	<p>PS.....DevOrFile is the name of a PostScript file.</p> <p>PSPRINTER ...DevOrFile is the name of a PostScript printer. The output is sent directly to this device.</p> <p>PDF .....DevOrFile is the name of a PDF file.</p> <p>HTML.....DevOrFile is the name of a HTML file.</p> <p>TXT .....DevOrFile is the name of a text file.</p> <p>TXTPRINTER.DevOrFile is the name of a text printer. The output is sent directly to this device.</p> <p>IMGBMP .....DevOrFile is the name of the BMP output file. Each output page is stored in one file. The page-number is appended to the filename if required. The specified filename may contain a series of #-characters as placeholder for the page-number.</p> <p>IMGGIF .....DevOrFile is the name of the GIF output file. Each output page is stored in one file. See also IMGBMP for additional notes.</p> <p>IMGJPG .....DevOrFile is the name of the JPG output file. Each output page is stored in one file. See also IMGBMP for additional notes.</p> <p>IMGPCX.....DevOrFile is the name of the PCX output file. Each output page is stored in one file. See also IMGBMP for additional notes.</p> <p>IMGPNG .....DevOrFile is the name of the PNG output file. Each output page is stored in one file. See also IMGBMP for additional notes.</p> <p>IMGTA.....DevOrFile is the name of the TGA output file. Each output page is stored in one file. See also IMGBMP for additional notes.</p> <p>IMGTIF.....DevOrFile is the name of the TIF output file. Each output page is stored in one file. See also IMGBMP for additional notes.</p> <p>IMGMULTITIF.DevOrFile is the name of the TIF output file. All output pages are stored in one file.</p> <p>ZPL.....DevOrFile is the name of a ZPL-II file. ZPL-II is the printer languages used by ZEBRA® printers.</p> <p>ZPLPRINTER..DevOrFile is the name of a ZPL-II compatible printer. The output is sent directly to this device.</p>
<b>-OO [CPn] [TCname] [SRn] [SCn] [DXN] [DXH] [DXV] [JTtitle]</b>	<p>Specifies the options for the output device or file:</p> <p>CPn.....Optional. Number of copies for the printjob [1..n]. (e.g. -CP2 for two copies).</p> <p>TCname.....Optional. Name of the tray control.</p> <p>SRn.....Optional. Start row [0..n]. Row in which the label printing shall start on the first page of the output. The preceding rows are left empty.</p> <p>SCn.....Optional. Start column [0..n]. Column in which the label printing shall start on the first page of the output. The preceding column s are left empty.</p> <p>DXN .....Optional. No duplex printing.</p> <p>DXH .....Optional. Horizontal duplex printing.</p> <p>DXV .....Optional. Vertical duplex printing.</p> <p>JTtitle.....Job title for the output (this is the spool name on Microsoft Windows).</p>

### 3.4.4 License Key

If the license data is not available through the Windows® registry (usually when no **TFORMer Designer** installation is available on the machine in question) you can pass the license data with the following command line arguments:

```
-L LicenseeName LicenseKey NumberOfLicenses LicenseKind
```

<b>-L LicenseeName LicenseKey NumberOfLicenses LicenseKind</b>	<p>Specifies the license data:</p> <p>LicenseeName ..... Name of the licensee.</p> <p>LicenseKey ..... License key.</p> <p>NumberOfLicenses .... Number of purchased licenses.</p> <p>LicenseKind ..... Kind of purchased licenses.</p> <p>Make sure to specify the parameters in the correct order!</p>
--	--



Alternatively the license key can be supplied in a file named *tfprint.ini*. The following syntax has to be used:

```
[LICENSE_DATA]
License_Product=29
Licensee=John Doe
License Kind=3
Number Of Licenses=1
License_Key=00000000000000000000000000000000
```

- On Windows create this file in the same directory where the executable (*tfprint.exe*) is located.
- On Linux/UNIX the ini-file has to be located in the directory */usr/local/share/TFORMer/*.

### 3.4.5 Miscellaneous Options

*TFPrint* offers the following additional options (which are not related to the **TFORMer** print engine):

```
-Q
-C CommandFile
-LCUPS
-H | -?
```

<b>-Q</b>	Quiet. Do not write messages to stdout (e.g. console).
<b>-C CommandFile</b>	Use a command file <u>in addition</u> to any other command line parameters. This file must be stored in ASCII, do not use a UNICODE file here.  Example: <pre>-C MyParams.txt</pre> The content of "MyParams.txt" could be as follows: <pre>-DT TEXT -DO SC; QC\ -L "John Doe" ***** 1 "Single"</pre>
<b>-LCUPS</b>	List CUPS printers (Linux/UNIX only).
<b>-H   -?</b>	This command line switch shows you a detailed help text.

## Contact and Support Information

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### Free Support

If you have questions, need help or simply want to tell us about your application, contact:

Email: [support@tec-it.com](mailto:support@tec-it.com)

Web: <http://www.tec-it.com/support/>

Don't hesitate to contact us - let us hear your feedback! If the product does not fulfill your requirements, please tell us why. We are highly interested in meeting the requirements of our customers.

### How to unlock the Demo Version

You can unlock the demo version with a license key. License keys can be obtained from TEC-IT by Email, online order form or FAX.

Email: [sales@tec-it.com](mailto:sales@tec-it.com)

Online: <http://www.tec-it.com/order/>

Fax: +43 / (0)7252 / 72 72 0 – 77

### Company Contact Information

#### TEC-IT Datenverarbeitung GmbH

Address: Wagnerstrasse 6  
AT-4400 Steyr  
Austria/Europe

Phone: +43 / (0)7252 / 72 72 0

Fax: +43 / (0)7252 / 72 72 0 – 77

Email: [support@tec-it.com](mailto:support@tec-it.com)

Web: <http://www.tec-it.com>

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