



**TEC-IT**

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# TFPrint

## Command Line Printing Tool

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Version 6.0

## User Manual

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Figure 1: TFPrint

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## 2 Disclaimer

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## 3 Command Line Printing

### 3.1 General

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

The executable file is named *tfprint* (or *tfprint.exe* on Microsoft Windows). It 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 datasources.
3. Embed *tfprint* into your batch job, shell script or applications.

- ▶ On Microsoft Windows the files for the form layout and for the file-based datasource (XML, CSV or TXT) may be provided as system-specific file path or as http-based URL.

```
Kommandozeilendruck TFPrint
TFPrint V6.0.2.13644 - Command-Line TFORMer Reporting Engine
(c) 2002-2010 TEC-IT Datenverarbeitung GmbH
http://www.tec-it.com

tfprint -F (Repository Project Form) | FormFile
[ -D DataFile or DataSourceName ]
[ -DT (XML|TEXT|TFORMER|TFS|ODBC|DATASOURCE) ]
[ -DO [CL[yes|no]] [ESC[yes|no]] [SCc] [QCC] [RCFname|RCAname]
[DSN:name [USER:user] [PWD:password] SQL:statement] [XSLT:file] ]
[ParamName:value] ]
[ -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 LicenseeName LicenseKey NumberOfLicenses LicenseKind ]
[ -Q ]
[ -C CommandFileASCII ]
[ -LCUPS ]
[ -SYSTEMID ]
[ -CONFIG File ]
[ -H | -?] Show detailed help

C:\ProgramData\TEC-IT\TFORMer\6.0\Examples\Command Line>
```

Figure 1: TFPrint

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

- Form layout (command line parameter *-F*)
- Datasource (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 V6.0.2.13644 - Command-Line TFORMer Reporting Engine
(c) 2002-2010 TEC-IT Datenverarbeitung GmbH
http://www.tec-it.com

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

#### 3.3.1 Samples

##### 3.3.1.1 Printing with Default Data

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

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

This command will print the form *sample.tff* to the default windows printer. If manual input was defined as standard datasource, the input data will be retrieved from the file *C:\sample.xml* automatically. This is the data file which is maintained by **TFORMer Designer** (data view).

##### 3.3.1.2 Using CSV Data

You can also specify any other data file like a CSV 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!

##### 3.3.1.3 ODBC Data

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"
```

#### 3.3.1.4 Using Repository Forms

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
```

This sample saves the output as PDF document.

#### 3.3.1.5 More Samples

The help text shows you more samples.

```
tfprint -H
```

## 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 (Repository Project Form)   FormFile	
<b>-F Repo Project Form</b>	<p>Specifies a form stored in a specific project in a repository.</p> <p>Repo ..... File name of the repository (*.tfr).</p> <p>Project ..... Name of the project within the repository.</p> <p>Form ..... Name of the form within the project.</p> <p>Example:</p> <pre style="background-color: #f2f2f2; 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: #f2f2f2; padding: 2px;">-F C:\MyStandAloneForm.tff</pre>

### 3.4.2 Datasource

Use the following parameters to specify the data file or datasource name. If no data file is specified, *tfprint* will use the standard data source configured with **TFORMer Designer**. If a data file was specified (-D) it is mandatory to specify the type of the data file (-DT).

[ -D DataFile or DataSourceName ] [ -DT (XML TEXT TFORMER TFS ODBC DATASOURCE) ] [ -DO [CL[yes no]] [ESC[yes no]] [SCc] [QCc] [RCfname RCaname] [DSN:name [USER:user] [PWD:password] SQL:statement] [XSLT:file] [ParamName:value] ]	
<b>-D DataFile or DataSourceName</b>	<p>Specifies the data file (e.g. with data type = XML) or data source name (data type DATA SOURCE). This switch is skipped for -DT ODBC.</p> <p>DataFile ..... Name of the data file.</p> <p>DataSourceName. Name of the datasource defined in the form layout.</p> <p>Examples:</p> <pre style="background-color: #f2f2f2; padding: 2px;">-D C:\MyDataFile.csv -DT TEXT -D MyDataSource -DT DATASOURCE</pre>
<b>-DT ( XML   TEXT   TFORMER   TFS   ODBC   DATASOURCE )</b>	<p>Specifies the type of the data file given with the -D option.</p> <p>XML ..... XML input file.</p> <p>TEXT ..... ASCII input file (in CSV format).</p> <p>TFORMER ..... Internal TFORMer data file (XML).</p> <p>TFS ..... TFORMer Server compatible data file (XML).</p> <p>ODBC ..... ODBC datasource.</p> <p>DATASOURCE .... Datasource specified in a layout.</p>
<b>-DO [CL[yes no]] [ESC[yes no]] [SCc] [QCc] [RCfname   RCaname] [DSN:name [USER:user] [PWD:password] SQL:statement]</b>	<p>Specifies the options for the data file given with the -D option.</p> <p>CL ..... Optional. Clear datafields between records. (Same as CLyes.)</p> <p>CLno ..... Optional. Do not clear datafields between records (default).</p> <p>ESC ..... Optional. Handle escape-sequences in input data. (Same as ESCyes.)</p> <p>ESCno ..... Optional. Do not handle escape-sequences in input data (default).</p>

<p><b>[XSLT:file]</b> <b>[ParamName:value]</b></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:</p> <p>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):</p> <p>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. ParamName..... Optional. Specifies the value for a datasource parameter in the form [Parameter Name]:[Parameter value] (-DT DATASOURCE only).</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|IMGTGA|IMGTIF|IMGMULTITIF|
  ZPL|ZPLPRINTER) ]
[ -OO [CPn] [TCname] [SRn] [SCn] [DXN] [DXH] [DXV] [JTtitle] ]
```

<p><b>-O DevOrFile</b></p>	<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>
----------------------------	--



<p><b>-OT [ WIN32   CUPS   REPO   PS   PSPRINTER   PDF   HTML   TXT   TXTPRINTER   IMGBMP   IMGGIF   IMGJPG   IMGPCX   IMGPNG   IMGTA   IMGTIF   IMGMULTITIF   ZPL   ZPLPRINTER ]</b></p>	<p>Specifies the output type:</p> <p>WIN32.....DevOrFile is the printer name available under Microsoft® Windows®.</p> <p>CUPS.....DevOrFile is the name of a CUPS printer (Linux).</p> <p>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> <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>
<p><b>-OO [CPn] [TCname] [SRn] [SCn] [DXN] [DXH] [DXV] [JTtitle]</b></p>	<p>Specifies the options for the output device or file:</p> <p>CPn.....Optional. Number of copies for the print job [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 Licensing

#### 3.4.4.1 Licensing through Command Line

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

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

<p><b>-L LicenseeName LicenseKey</b></p>	<p>Specifies the license data:</p>
--	------------------------------------

<b>NumberOfLicenses</b> <b>LicenseKind</b>	LicenseeName ..... Name of the licensee. LicenseKey ..... License key. NumberOfLicenses .... Number of purchased licenses. LicenseKind ..... Kind of purchased license: Single   Workgroup   Office   Site   Developer   Server. Make sure to specify the parameters in the correct order!
---	--

### 3.4.4.2 Licensing per tfprint.ini File

Alternatively the license key can be supplied in a file named *tfprint.ini*.

- On Windows create this file in the same directory where the executable (*tfprint.exe*) is located.
- On Linux/UNIX the *tfprint.ini* file has to be located in the directory */usr/local/share/TFORMer6/*.

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
```

*License\_Product*=[Product ID]

Depending on your operating system, make sure that the correct *Product ID* is used:

Operating System	Product ID	Description
Windows	57	For Microsoft Windows systems.
Linux, UNIX	120	For Linux and UNIX systems.

*License\_Kind*=[License ID]

For configuring the *tfprint.ini* file, make sure that the appropriate *license ID* is used:

Kind of License	License ID	Description
Developer	3	Developer license (for one developer / 10000 redistributions).
Web	3	Web license.
Office	4	Office license (100 installations within one site).
Workgroup	5	Workgroup license (10 installations within one site).
Server	6	Server license (Installation on ONE (Web).Server).

### 3.4.5 Miscellaneous Options

*TFPrint* offers the following additional options:

```
-Q
-C CommandFileASCII
-LCUPS
-SYSTEMID
-CONFIG File
-H | -?
```

<b>-Q</b>	Quiet. Do not write messages to stdout (e.g. console).
<b>-C CommandFileASCII</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> <p>The content of "MyParams.txt" could be as follows:</p> <pre>-DT TEXT -DO SC; QC\ -L "John Doe" ***** 1 "Single"</pre>
<b>-LCUPS</b>	List CUPS printers (Linux/UNIX only).
<b>-SYSTEMID</b>	Retrieve your SystemID (used for ordering licenses).
<b>-CONFIG File</b>	Path to a TFORMer config file.
<b>-H   -?</b>	This command line switch shows you a detailed help text.

## 4 Contact and Support Information

---

### 4.1 Free Support

If you have any questions, please contact us:

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

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

Don't hesitate to tell us 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.

### 4.2 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

### 4.3 Company Contact Information

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

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