



TEC-IT

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TFPrint

Command Line Printing Tool

Version 5.1

User Manual

21 January 2008

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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

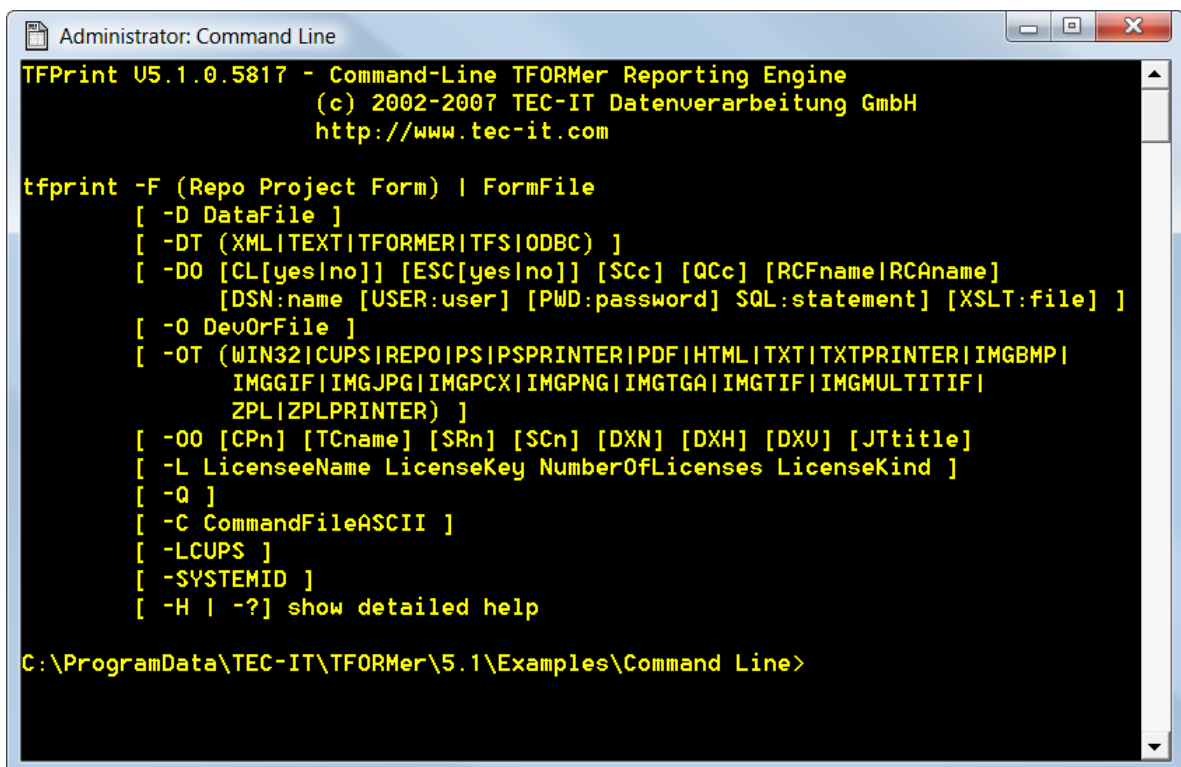
- on its own (executed manually),
- as part of batch-jobs or shell-scripts,
- via “shell-execute” as “out-of-process” reporting engine,
- as extension for printer filter applications on Linux/UNIX.

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|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] [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 ]
```

<p>-F Repo Project Form</p>	<p>Specifies a form stored in a specific project of a repository. RepoFile name of the repository (*.tfr). ProjectName of project within repository. FormName of form within project.</p> <p>Example:</p> <pre>-F C:\MyRepository.tfr MyProject MyForm</pre>
<p>-F FormFile</p>	<p>Specifies a stand-alone form. FormFile.....File name of the stand-alone form (*.tff).</p> <p>Example:</p> <pre>-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]
```

<p>-D DataFile</p>	<p>Specifies the data file. This switch is skipped for ODBC import. DataFileName of the data file.</p> <p>Example:</p> <pre>-D C:\MyDataFile.csv -DT TEXT</pre>
<p>-DT (XML TEXT TFORMER TFS ODBC)</p>	<p>Specifies the type of the data file given with the -D option.</p> <p>XMLXML input file. TEXTASCII input file (in CSV format). TFORMERInternal TFORMer data file (XML). TFS.....TFORMer Server compatible data file (XML). ODBCODBC data-source.</p>
<p>-DO [CLyes CLno] [ESCyes ESCno] [SCc] [QCc] [RCFname RCAname] [DSN:name] [USER:user] [PWD:password] [SQL:statement] [XSLT:file]</p>	<p>Specifies the options for the data file given with the -D option.</p> <p>CLyesOptional. Clear data-fields between records. CLnoOptional. Do not clear data-fields between records (default).</p> <p>ESCyes.....Optional. Handle escape-sequences in input data. ESCnoOptional. Do not handle escape-sequences in input data (default).</p> <p>Input data options for text files (for -DT TEXT only): 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>QCCOptional. Specifies the text qualifier character c. For more information on specifying text qualifiers, please see below.</p> <p>Record count: RCFnameOptional. Specifies the name of the file containing the record counter. RCAnameOptional. Specifies the name of the attribute containing the record counter (-DT XML only).</p> <p>Import data via ODBC connection (for -DT ODBC only): DSNName of the data source (connection string). USER.....Optional. User name for ODBC connection. PWDOptional. Password for ODBC connection. SQLSQL-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]
```

-O DevOrFile	<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>
-OT [WIN32 CUPS REPO PS PSPRINTER PDF HTML TXT TXTPRINTER IMGBMP IMGGIF IMGJPG IMGPCX 	<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). REPODevOrFile 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>

IMGPNG IMGTA IMGTF IMGMULTITIF ZPL ZPLPRINTER]	<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>PDFDevOrFile is the name of a PDF file.</p> <p>HTML.....DevOrFile is the name of a HTML file.</p> <p>TXTDevOrFile 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>IMGBMPDevOrFile 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>IMGGIFDevOrFile is the name of the GIF output file. Each output page is stored in one file. See also IMGBMP for additional notes.</p> <p>IMGJPGDevOrFile 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>IMGPNGDevOrFile 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>IMGTF.....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>
-OO [CPn] [TCname] [SRn] [SCn] [DXN] [DXH] [DXV] [JTtitle]	<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>DXNOptional. No duplex printing.</p> <p>DXHOptional. Horizontal duplex printing.</p> <p>DXVOptional. 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
```

-L LicenseeName LicenseKey NumberOfLicenses LicenseKind	<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 | -?
```

-Q	Quiet. Do not write messages to stdout (e.g. console).
-C CommandFile	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>
-LCUPS	List CUPS printers (Linux/UNIX only).
-H -?	This command line switch shows you a detailed help text.

Contact and Support Information

Free Support

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

Email: 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.

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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

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

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