



PL/PDF Reporter

Manual Installation Guide

V5.14



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1. System requirements

Oracle 12c RDBMS or higher

- with single-byte database character sets or
- with AL32UTF8 database character sets (recommended)

Oracle 11g Express Edition is supported.

2. Get the PL/PDF program

Please download the program from www.plpdf.com/downloads. Unzip the plpdf*.zip into a directory (<unzip_directory>), example [c:\downloads](http://www.plpdf.com/downloads).

Oracle 21c “PLS-01918” wrapped code problem:

- Set the initialization parameter PERMIT_92_WRAP_FORMAT parameter to TRUE.
- or
- request the native 21c compliant installkit from the download@plpdf.com email

3. Create the PLPDF user

Start SQL*Plus and connect with an administrator user (SYS user) to the database. Create the PLPDF user (this example only shows how to create a minimal user (script: 1_create_user.sql). Check out Oracle 9i SQL Reference on how to set up a user

http://download-west.oracle.com/docs/cd/B10501_01/server.920/a96540/statements_84a.htm - SQLRF01503)

```
CREATE USER plpdf_owner IDENTIFIED BY plpdf_owner;  
GRANT CONNECT TO plpdf_owner;  
GRANT RESOURCE TO plpdf_owner;  
GRANT select on sys.V_$DATABASE to plpdf_owner;  
GRANT execute on sys.DBMS_CRYPTO to plpdf_owner;
```

In Oracle Database 12c Release 1 (12.1.0.1), the name of a common user must begin with C## or c## and the name of a local user must not begin with C## or c##, see:

https://docs.oracle.com/database/121/SQLRF/statements_8003.htm#SQLRF01503

The “GRANT select on sys.V_\$DATABASE to plpdf;” is not required to the PL/PDF Enterprise Licence and the Developer Licence.

The “GRANT execute on sys.DBMS_CRYPTO to plpdf_owner;” is optional but the PDF Encrypt/Protection is not supported without this grant.

4. Connect to the database as plpdf

CONNECT plpdf_owner/plpdf_owner@<database> and execute this command: **set scan off;** (“Set scan off” turns off substitution variables.)

5. Create objects (script: 2_install_objects.sql)

In this step it is essential to use SQL*Plus to create the PLPDF Objects. SQL Developer and PL/SQL Developer will not compile the wrapped packages.

- Create TrueType tables and sequence: Command from **SQL*Plus**:
@<unzip_directory>\plpdf\plpdf_ttf_tables.sql
- Create Parser tables: Command from **SQL*Plus**: @<unzip_directory>\plpdf\plpdf_parser_tables.sql



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- Install package headers (see table): Command from **SQL*Plus**:
@<unzip_directory>\plpdf\<package>_h.sql
- Install package bodies (see table): Command from **SQL*Plus**:
@<unzip_directory>\plpdf\<package>_b.sql

Package	Description
plpdf	Main
plpdf_acroform	PDF form (Acroform)
plpdf_annot	Annotations
plpdf_barcode	Barcode
plpdf_cell	Cell Print functions
plpdf_cert	Certification
plpdf_chart	Chart
plpdf_chart_3d	3D Chart
plpdf3_chart	Chart v3
plpdf_comp	Compressor
plpdf_const	Constants definition
plpdf_digsig	Digital Signature
plpdf_enc	Encoding
plpdf_err	Error handler
plpdf_gl	Glyphs
plpdf_img	Image handler
plpdf_img_err	Image handler error
plpdf_metric	Metrics
plpdf_parser	PDF parser
plpdf_pattern	Pattern
plpdf_pdfx	PDF/X support
plpdf_row	Row Print functions
plpdf_text	Text handler
plpdf_toc	Table of Content
plpdf_ttf	True Type font handler
plpdf_ttf_parser	True Type font parser
plpdf_ttf_subset	True Type font subset creator
plpdf_type	Type definitions
plpdf_util	Utilities
plpdf_row_print	PL/PDF v2 compatible Row Print
plpdf_rtol	Right-to-Left Printing
plpdf3	Paragraph Print
plpdf3_xhtml	XHTML
plpdf_w3_util	XHTML Utilities
plpdf tk5_comp	v5 compress
plpdf tk5_lob	v5 LOB handling
plpdf tk5_util	v5 Utilities
plpdf tk5_v2	v5 Varchar2 handling
plpdf tk5_val	v5 Value handling
plpdf tk5	v5 Toolkit
ploffx_app	App
ploffx_binxls_parser	Binary XLS Parser
ploffx_chart_api	Chart
ploffx_chart	Chart Utility
ploffx_comments	Comments
ploffx_comp	Compare Utility
ploffx_content_types	Content types
ploffx_core	Core



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ploffx_document	Word document
ploffx_document_cr	Word document
ploffx_document_gen	Word document
ploffx_document_tag	Word document
ploffx_document_type	Word document
ploffx_docx	DOCX
ploffx_docx_styles	Word document styles
ploffx_docx_type	Word document types
ploffx_drawing	Drawing
ploffx_fonttable	Font table
ploffx_headerfooter	Header and footer
ploffx_numbering	Numbering
ploffx_picture	Picture
ploffx_prels	Relationships
ploffx_settings	Settings
ploffx_sharedstrings	Shared strings
ploffx_sheet	Sheet
ploffx_styleswitheffects	Styles with effects
ploffx_theme	Theme
ploffx_util	Utilities
ploffx_vmldrawing	VML Drawing
ploffx_websettings	Websettings
ploffx_workbook	Workbook
ploffx_xls_parser	XLS parser
ploffx_xlsx	XLSX
ploffx_xlsx_parser	XLSX parser
ploffx_xlsx_styles	XLSX styles
plx_sc	Simple Composer
plpdf_reporter_docx	Reporter main package
plpdf_reporter_pdf	Reporter main package
plpdf_reporter_types	Reporter types
plpdf_reporter_util	Reporter utilities package
plpdf_mailmerge	MailMerge package

- optional Java based Compressor
 - i. install: LobCompressor_java.sql
 - ii. replace: plpdf_comp => plpdf_comp_java.sql

6. Optional: compile invalid packages (script: 3_compile_schema.sql)

- package
see: "alter package" command
example: alter package plpdf_util compile package;

or

- schema
see: "dbms_utility.compile_schema" command
example: exec dbms_utility.compile_schema(schema => 'PLPDF_OWNER');

7. Certification key request (after purchase)

PL/PDF is a commercial product. A licence is required per Oracle database. The PL/PDF uses V_\$DATABASE.DBID for generating and checking Certification key for Single Server Licence, the Enterprise Licence does not use the DBID.



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Run the GetCertKey function: it generates the preliminary certification key. This function should be run once when the PL/PDF package is installed. The function generates a string that should be sent to info@plpdf.com. Our representatives will send a certificate key back that should be used as the input parameter to SetCertKey procedure. Comment: You can use 'TRIAL' word as certification key with limitations (max. 5 pages, watermarked pages).

Commands from SQL*Plus: (first: **set line 1000**)
select plpdf.getcertkey from dual;

Change the plpdf_cert package body: If you have a certification key, you need to change the plpdf_cert.SetCertKey function:

Original content: **RETURN 'TRIAL';**

New content: **RETURN '<certification key>';**
Example: **RETURN '1234567890ABCDEF';**

Compile the plpdf_cert package.

8. Set encoding (optional)

You can set your default encoding (see SetEncoding in User Guide) in plpdf_cert package. If you set GetDefaultEncoding function return value to your common encoding then you do not need set in every report procedure. You can use SetEncoding for set different encoding, but usage of default encoding gets a faster procedure running.

You can find information about character sets and code pages at:

http://en.wikipedia.org/wiki/Category:Character_sets
<http://www.microsoft.com/globaldev/reference/WinCP.msp>
<http://www.microsoft.com/globaldev/reference/iso.msp>

Supported character sets/values:

- cp1250
- cp1251
- cp1252: this is the default
- cp1253
- cp1254
- cp1255
- cp1256
- cp1257
- cp1258
- cp874
- iso-8859-1
- iso-8859-2
- iso-8859-4
- iso-8859-5
- iso-8859-7
- iso-8859-9
- iso-8859-15
- iso-8859-16
- koi8_r
- koi8_u
- utf16: Unicode database (AL32UTF8) with Unicode TTF embending.



You need to change the `plpdf_cert`. `GetDefaultEncoding` function:

Original content: **RETURN 'cp1252';**

New content: **RETURN '<encoding>';**

Example: **RETURN 'iso-8859-2';**

Compile the `plpdf_cert` package.

9. Grants and synonyms (optional)

If your PDF creator application works on another schema in Oracle Database, grant privileges to *PLPDF* packages and tables. General formats are:

```
grant execute on <package> to plpdf_user;  
grant select on <table> to plpdf_user;
```

or create public access

```
grant execute on <package> to public;  
grant select on <table> to public;
```

The `5_plpdf_grant_objects.sql` or `5_plpdf_grant_objects_public.sql` file contains full list of required grants.

A **synonym** is an alternative name for objects such as tables, views, sequences, stored procedures, and other database objects. You generally use synonyms when you are granting access to an object from another schema and you don't want the users to have to worry about knowing which schema owns the object.

Format of the synonyms:

```
create synonym <package> for plpdf_owner.<package>;
```

or

```
create public synonym <package> for plpdf_owner.<package>;
```

The `6_plpdf_user_create_synonyms.sql` or `6_plpdf_user_create_synonyms_public.sql`

file contains full list of required synonyms.

The „public” access (grant and synonym) is a simple way for enabling access to all users in the current database but it can lead to security issues.