



PL/PDF Installation Guide **V4.7.0**



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Reporting for your Oracle database

1. System requirements

Oracle 10gR2 RDBMS or higher, the 11gR2 is the recommended

- 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.

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

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

4. Connect to the database as plpdf

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

5. Create objects

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.

You have 2 ways to create objects:

1. Run the "2_plpdf_install_objects.sql" script from **SQL*Plus** in your created plpdf user to create all objects.
2. Create the objects one by one:
 - 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
 - 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



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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
plpdf3	Paragraph Print
plpdf3_xhtml	XHTML
plpdf_w3_util	XHTML Utilities
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_const	Constants
ploffx_content_types	Content types
ploffx_core	Core
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



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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_pdf	Reporter main package
plpdf_reporter_type	Reporter types
plpdf_reporter_util	Reporter utilities package

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

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

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

or

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

4. Certification key request (after purchase)

PL/PDF is a commercial product. A licence is required per Oracle database. PL/PDF uses V_\$DATABASE.DBID for generating and checking Certification key.

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';**



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Compile the plpdf_cert package.

After the compilation, you have to **RECONNECT TO THE DATABASE** to make it work.

5. 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.mspx>

<http://www.microsoft.com/globaldev/reference/iso.mspx>

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.

6. 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;



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grant select on <table> to plpdf_user;

The **5_plpdf_grant_objects.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.<package>;

The **6_plpdf_user_create_synonyms.sql** file contains full list of required synonyms.