



PL/PDF
Manual Installation Guide
v2.0.0a



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1. System requirements

Oracle 9i RDBMS Release 2 or higher
- with single-byte database character sets or
- with AL32UTF8 database character sets
Oracle 10g Express Edition is supported.

2. Get the PL/PDF program

Please download the program from www.plpdf.com/23-927.html. 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 (example system) to the database. Create the PLPDF user (this example only shows how to create a minimal user. 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 IDENTIFIED BY plpdf;  
GRANT CONNECT TO plpdf;  
GRANT RESOURCE TO plpdf;  
GRANT select on sys.V_$DATABASE 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 TrueType tables and sequence

Command from SQL*Plus:

```
@<unzip directory>\plpdf\plpdf_ttf_tables.sql
```

6. Install packages

a) LOB Compressor java: command from SQL*Plus (Oracle XE: ignore this step):

```
@<unzip directory>\plpdf\LobCompressor_java.sql
```

b) PL/SQL Compressor package: command from SQL*Plus (Oracle XE: use plpdf_comp_xe.sql package: @<unzip directory>\plpdf\plpdf_comp_xe.sql)

```
@<unzip directory>\plpdf\plpdf_comp.sql
```

c) Type definition package: command from SQL*Plus:

```
@<unzip directory>\plpdf\plpdf_type.sql
```

d) Text handler package (AL32UTF8: download Unicode Supplemental and replace this package): command from SQL*Plus:

```
@<unzip directory>\plpdf\plpdf_text.sql
```

e) Error handler package: command from SQL*Plus:

```
@<unzip directory>\plpdf\plpdf_err.sql
```

f) Image handler package

```
@<unzip directory>\plpdf\plpdf_img.sql
```

g) 1. Image handler InterMedia package (with Oracle InterMedia):
command from SQL*Plus:

```
@<unzip directory>\plpdf\plpdf_img_im_withIM.sql
```

OR

2. Image handler package (without Oracle InterMedia) (Oracle XE: does not support InterMedia): command from SQL*Plus:

```
@<unzip directory>\plpdf\plpdf_img_im_withoutIM.sql
```

h) Utilities package: command from SQL*Plus:

```
@<unzip directory>\plpdf\plpdf_util.sql
```

i) Constants definition package: command from SQL*Plus:



- `@<unzip directory>\plpdf\plpdf_const.sql`
- j) Encoding package: command from SQL*Plus:
`@<unzip directory>\plpdf\plpdf_enc.sql`
- k) True Type font handler package: command from SQL*Plus:
`@<unzip directory>\plpdf\plpdf_ttf.sql`
- l) Certification package: command from SQL*Plus:
`@<unzip directory>\plpdf\plpdf_cert.sql`
- m) Metrics package: command from SQL*Plus:
`@<unzip directory>\plpdf\plpdf_metric.sql`
- n) Install main package: command from SQL*Plus:
`@<unzip directory>\plpdf\plpdf.sql`
- o) Install parser tables (optional): command from SQL*Plus:
`@<unzip directory>\plpdf\plpdf_parser_tables.sql`
- p) Install parser package (optional): command from SQL*Plus:
`@<unzip directory>\plpdf\plpdf_parser.sql`

Compile invalid packages.

7. Certification key request

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';**

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:

- o cp1250
- o cp1251
- o cp1252: this is the default



- o cp1253
- o cp1254
- o cp1255
- o cp1256
- o cp1257
- o cp1258
- o cp874
- o iso-8859-1
- o iso-8859-2
- o iso-8859-4
- o iso-8859-5
- o iso-8859-7
- o iso-8859-9
- o iso-8859-15
- o iso-8859-16
- o koi8_r
- o koi8_u
- o 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. Configuring the Web server

This step only needs to be executed if MOD_PL/SQL is installed and the Oracle HTTP server is running. You can find information at: Orafaq: <http://www.orafaq.com/faqmodpl.htm> - CONFIG

10. Testing the installation

Create test procedure: you can use a minimal example for testing:

a.) store database

- create table

```
CREATE TABLE STORE_BLOB
(BLOB_FILE BLOB,
CREATED_DATE DATE);
```

- create test procedure

```
CREATE OR REPLACE PROCEDURE test1 IS
l_blob BLOB;
```

```
BEGIN
```

```
Plpdf.init;
```

```
Plpdf.NewPage;
```

```
Plpdf.SetPrintFont('Arial', NULL, 12);
```

```
Plpdf.PrintCell(50, 10, 'Test1');
```

```
Plpdf.SendDoc(l_blob);
```

```
-- store
```

```
INSERT INTO STORE_BLOB (blob_file, created_date)
```

```
VALUES (l_blob, SYSDATE);
```

```
COMMIT;
```

```
END;
```

```
/
```

- run test procedure

```
BEGIN
```

```
test1;
```



END;

/

- save the result into the file system as test1.pdf
You can use TOAD or PL/SQL Developer (from the grid)
- open result with Acrobat Reader
If you can open test1.pdf from file system then OK.

b.) through the web server (optional: if MOD_PL/SQL is installed and the Oracle HTTP server is running)

- create test procedure

```
CREATE OR REPLACE PROCEDURE test2 IS
```

```
  l_blob BLOB;
```

```
BEGIN
```

```
  Plpdf.init;
```

```
  Plpdf.NewPage;
```

```
  Plpdf.SetPrintFont('Arial',NULL,12);
```

```
  Plpdf.PrintCell(50,10,'Test2');
```

```
  Plpdf.SendDoc(l_blob);
```

```
  -- print
```

```
  owa_util.mime_header('application/pdf',FALSE);
```

```
  http.p('Content-Length: ' || dbms_lob.getlength(l_blob));
```

```
  owa_util.http_header_close;
```

```
  wpg_docload.download_file(l_blob);
```

```
END;
```

```
/
```

- the document can be reached through a browser
url: http://<host>:<port>/pls/<DAD>/test2)

11. Upgrade from v1.2.4 or v1.3.* - v1.7.* to v2.0.0

a.) Get the PL/PDF program: Please download the program from www.plpdf.com/23-927.html. Unzip the plpdf.zip into a directory (<unzip directory>), example c:\downloads.

b.) Install packages (see 6. for options and command from SQL*Plus):

1. Type definition package: plpdf_type.sql
2. Text handler package : plpdf_text.sql
3. Error handler package: plpdf_err.sql
4. Image handler package: plpdf_img.sql
5. Image handler InterMedia package: plpdf_img_im_withIM.sql
or plpdf_img_im_withoutIM.sql
6. Utilities package: plpdf_util.sql
7. Constants definition package: plpdf_const.sql
8. Encoding package: plpdf_enc.sql
9. True Type font handler package: plpdf_ttf.sql
10. Metrics package: plpdf_metric.sql
11. Compress package: plpdf_comp.sql (or plpdf_comp_xe.sql)
12. Install main package: plpdf.sql
13. Install parser tables (optional): plpdf_parser_tables.sql
14. Install parser (optional): plpdf_parser.sql

c.) Compile invalid PL/PDF packages.

12. Upgrade from v1.2.* (v.1.2.0, v1.2.1, v1.2.2, v1.2.3) to v2.0.0

a.) Get the PL/PDF program: Please download the program from www.plpdf.com/23-927.html. Unzip the plpdf.zip into a directory (<unzip directory>), example c:\downloads.

b.) If you have a certification key you have to save plpdf_cert package into a file. Plpdf_cert package is changed and you have to move your key into the new package.

c.) Install packages (see 6. for options and command from SQL*Plus):



1. Type definition package: plpdf_type.sql
2. Text handler package : plpdf_text.sql
3. Error handler package: plpdf_err.sql
4. Image handler package: plpdf_img.sql
5. Image handler InterMedia package: plpdf_img_withIM.sql or plpdf_img_withoutIM.sql
6. Utilities package: plpdf_util.sql
7. Constants definition package: plpdf_const.sql
8. Encoding package: plpdf_enc.sql
9. True Type font handler package: plpdf_ttf.sql
10. Certification package: plpdf_cert.sql
11. Metrics package: plpdf_metric.sql
12. Compress package: plpdf_comp.sql (or plpdf_comp_xe.sql)
13. Install main package: plpdf.sql
14. Install parser tables (optional): plpdf_parser_tables.sql
15. Install parser (optional): plpdf_parser.sql

d.) If you have a certification key, you need to change the plpdf_cert.SetCertKey function with your saved key.

e.) Set your default encoding (see 8.)

f.) Compile the plpdf_cert package.

g.) Compile invalid PL/PDF packages.

13. Upgrade from v1.0.* or v1.1.* to v1.2.4

a.) Get the PL/PDF program: Please download the program from www.plpdf.com/23-927.html. Unzip the plpdf.zip into a directory (<unzip directory>), example c:\downloads.

b.) Upgrade TrueType tables: Command from SQL*Plus:

@<unzip directory>\plpdf\plpdf_alter_tables-v120.sql

c.) Upgrade packages: follow 11. Upgrade from v1.2.* (v.1.2.0, v1.2.1, v1.2.2, v1.2.3) to v1.2.4 from b.) point.