PL/PDF

Manual Installation Guide

v2.9.2

Contents

1. System requirements

Oracle 10g 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/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 (example system) 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 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 (script: 2_install_objects.sql)

- **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_cert	Certification
plpdf_comp	Compressor
plpdf_const	Constants definition
plpdf_digsig	Digital Signature
plpdf_enc	Encoding
plpdf_err	Error handler
plpdf_gl	Glyps
plpdf_img2	Image handler
plpdf_img2_err	Image handler error
plpdf_metric	Metrics
plpdf_parser	PDF parser
plpdf_pdfx	PDF/X support
plpdf_row_print	row_print functions
plpdf_rtol	Text direction
plpdf_text2	Text handler

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

- 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');

7. 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 '<certfication 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.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.

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/wiki/Mod_plsql

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 you 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);
 htp.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 v2.*.* to v2.9.*

- Get the PL/PDF v2.8.0 program
- Install packages
  a. plpdf
  b. plpdf_comp
  c. plpdf_const
  d. plpdf_digsig
  e. plpdf_enc
  f. plpdf_err
  g. plpdf_gl
  h. plpdf_img2
  i. plpdf_img2_err
  j. plpdf_metric
  k. plpdf_parser
  l. plpdf_pdfx
  m. plpdf_row_print
  n. plpdf_rtol
  o. plpdf_tex2
  p. plpdf_ttf
  q. plpdf_ttf_parser
  r. plpdf_ttf_subset
  s. plpdf_type
  t. plpdf_util
- Drop unused packages (optional)
  a. plpdf_img_im
  b. plpdf_img
  c. plpdf_text
- Compile invalid PL/PDF packages (use "alter package" command from SQL*Plus)