Contents

General description

This white paper shows how to store a PDF document converted from an IBM i Spool file.

The PDF document is produced through ***GPL4i*** and is saved and shared on Google Drive through ***Drive4i***.

Requirements

These are the requirements needed in order to complete the activities proposed in this document.

- To have installed Drive4i [1]
  `http://www.jetlab.com/downloads/drive4i/Drive4i-V2R0M0-User_Guide-ENG.pdf`
- To have consulted the white paper [2]
  `http://www.jetlab.com/downloads/gpl4i/GPL4i-V2R0M0-WP005_Conversion_Spool_in_PDF_customizable-ENG.pdf`

Modify the conversion procedure

After installing Drive4i and following white paper [2] you will be able to modify the `QPDSPLIB` conversion procedure by adding an action after PDF conversion.

This action will save the PDF on Google Drive and will share it with a Google account.

Follow these steps to modify the procedure:

__ **Step 1**

Create a Drive4i action

Connect to the IBM i system as user `R4SP020000` and run the command `WRKR4SPL`

Select the procedure `QPDSPLIB` with option `A=Actions`

Press `F7=New action`

Complete the request as shown in the following image:

```
        Add action

Name. . . . . . . : Drive4i                              

Type. . . . . . . : 3  1=*MODULE    Assigns Pdf template

                       2=*CUT       Cuts Spooled file

                       3=*USEREXIT  User Exit

                       4=*VARIABLE  Assigns variables

                       5=*CONTAINER Folder

                       6=*ATTRIBUTE Document attributes

                       7=*SERVICE   Services

                       8=*ALERT     Alerts

F12=Cancel
```

A new action was added to the list of actions available for the procedure

__ **Step 2**

Define the action properties

Assign a name to the program that carries out the *USEREXIT action.

Select the action `*USEREXIT Drive4i` with the option

`A=Attributes`

Complete the request as follows:

```
Library name . . : GPL4IUT

Program name. . : QPDSPLIBUE
```

__ **Step 3**

Assign the Drive4i action to the event *END

After the Drive4i action is defined it must be assigned to the event *END.

This means that at the end of the conversion procedure the QPDSPLIBUE program will be called and it will send the PDF document to Drive.

Select the procedure `QPDSPLIB` with the option `E=Events`

Select the event `*END` with the option `A=Action management`

Press `F10=Action management` to access the list of available actions

Select the action `*USEREXIT Drive4i` with option `1=Choice`

The new action has been assigned to the event *END.

Assure that the action `Drive4i` is processed after the event `*SERVICE`.

```
O Seq  Type        Action
_  1   *CONTAINER  CONTAINER
_  2   *ATTRIBUTE  ATTRIBUTE
_  3   *SERVICE    SERVICE
_  4   *USEREXIT   Drive4i
```

__ **Step 4**

Modify the User Exit program

The source is already codified to recognize when it has been activated consequently to the Drive4i event.

```
c                   when          Procedure = 'QPDSPLIB'
c                              and Event = '*END'
c                              and Action = 'Drive4i'
c                              and ActionType = '*USEREXIT'
```

In this condition it recovers the SERIAL variable that it needs to reconstruct the path of the PDF file:

```
Seq  Attribute (?) / Value   (?)   (?=List active attributes or variables)
 1   path
     /GPL4IUT/temp/[&PROCEDURE]_[&SERIAL].pdf
 2   replace
     true
```

```
c                   eval      key = 'SERIAL' + x'00'
c                   eval      llKey = %scan(x'00':key) - 1
c                   eval      ptr =
c                             getVarHdl(
c                               ht
```

```
c                              : findElementHdl(ht:%addr(key):llKey)
c                              )
c                   eval       fileName
c                              = 'QPDSPLIB_'
c                              + %subst(v:1:%scan(x'00':v)-1)
c                              + '.pdf'
c                   eval       path = *blanks
c                   eval       path
c                              = '/GPL4IUT/temp/'
c                              + fileName
```

The PDF file path is passed on to a CL program which saves and shares it on Google Drive.

```
D dr4i            s              21a   inz('JTGA040000/SENDDRIVE')
..
c                   call       dr4i
c                   parm                     path
c                   parm                     fileName
```

The source `GPL4IUT/QCLLESRC(SENDDRIVE)` is already codified to send the document to Drive

```
JTGA020000/CPYTOGDR GACCOUNT('xxx@xxx.xxx') OBJ(&PATH) GDRFLR('/GPL4IUT') TITLE(&FILENM) +
CRTGDRFLR(*YES)
```

and to share the document with a Google account.

```
CHGVAR     VAR(&DRPATH) VALUE('/GPL4IUT/' *TCAT &FILENM)
JTGA020000/GRTGDROPRM GACCOUNT('xxx@xxx.xxx') GDRDOC(&DRPATH) VALUE('yyy@yyy.yyy') +
MESSAGE('That''s your document')
```

Substitute xxx@xxx.xxx with the email configured during Drive4i installation.

Substitute yyy@yyy.yyy with the email with which to share the document.

Recompile running the following command:

`CRTBNDCL PGM(GPL4IUT/SENDDRIVE) SRCFILE(GPL4IUT/QCLLESRC) SRCMBR(SENDDRIVE) REPLACE(*YES)`

Run the conversion procedure

Follow these the steps to verify the conversion procedure.

__ **Step 1**

Create a Spool file called `QPDSPLIB` in the system

```
DSPLIB LIB(QGPL) OUTPUT(*PRINT)
```

__ **Step 2**

Run the Spool file management command

```
WRKSPLF
```

Select the file `QPDSPLIB` with option `2` and change the Printer parameter

```
Printer  . . . . . . . . . . .   JTJT040000
```

Respond to the request to load the *STD module by selecting the same `QPDSPLIB` file with option `7` and respond with `I=Ignore message`

```
Response . . .     I
```

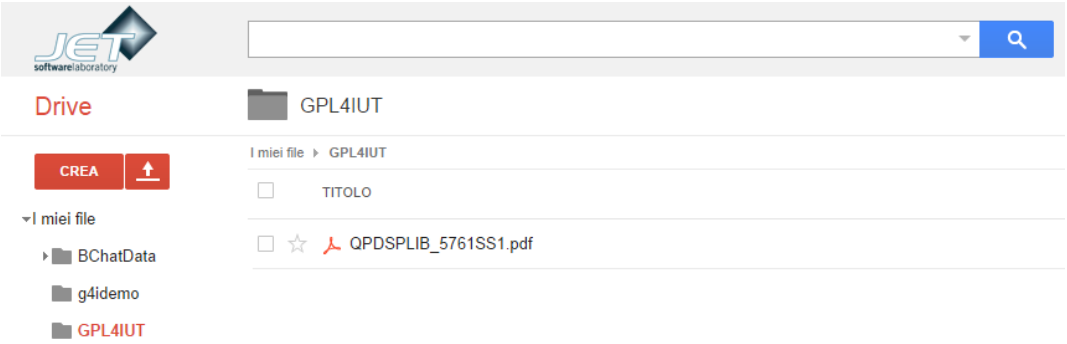
__ **Step 3**

Verify that the document

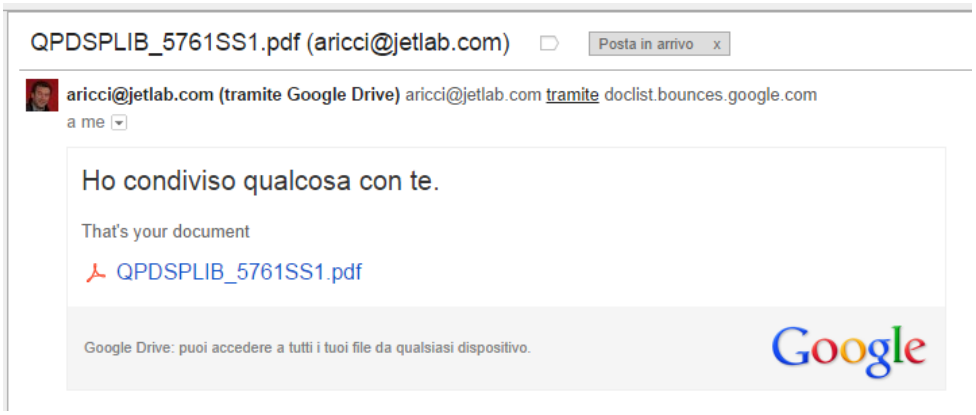
```
/gpl4iut/temp/QPDSPLIB_<serial>.pdf
```

was created. <serial> represents the IBM i serial number.

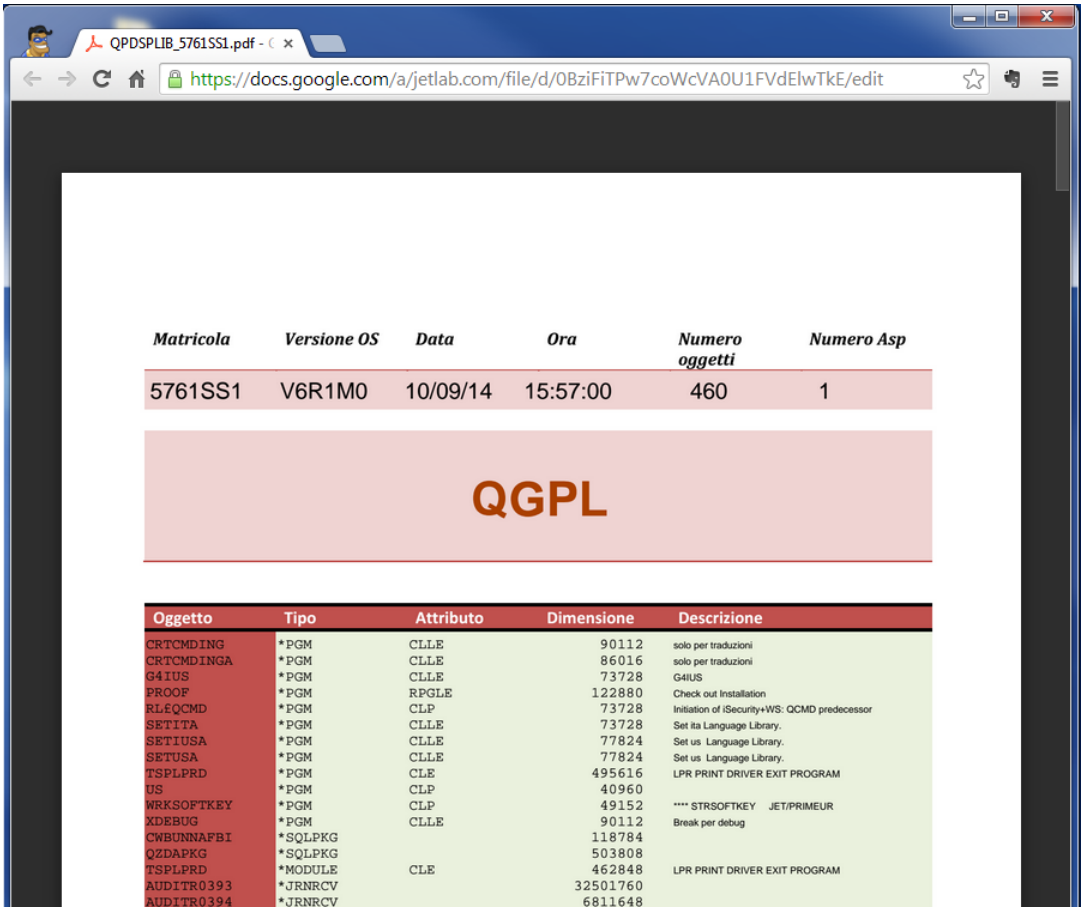
Also the document must have been sent to the Google Drive root of the Google account configured during Drive4i installation.



The user should have received an email.



Clicking the document will open it in Google Drive.



QPDSPLIB_5761SS1.pdf

https://docs.google.com/a/jetlab.com/file/d/0BziFiTPw7coWcVA0U1FVdElwTkE/edit

Matricola	*Versione OS*	*Data*	*Ora*	*Numero oggetti*	*Numero Asp*
5761SS1	V6R1M0	10/09/14	15:57:00	460	1

QGPL

Oggetto	Tipo	Attributo	Dimensione	Descrizione
CRTCMDING	*PGM	CLLE	90112	solo per traduzioni
CRTCMDINGA	*PGM	CLLE	86016	solo per traduzioni
G4IUS	*PGM	CLLE	73728	G4IUS
PROOF	*PGM	RPGLE	122880	Check out Installation
RL£QCMD	*PGM	CLP	73728	Initiation of iSecurity+WS: QCMD predecessor
SETITA	*PGM	CLLE	73728	Set ita Language Library.
SETIUSA	*PGM	CLLE	77824	Set us Language Library.
SETUSA	*PGM	CLLE	77824	Set us Language Library.
TSPLPRD	*PGM	CLE	495616	LPR PRINT DRIVER EXIT PROGRAM
US	*PGM	CLP	40960	
WRKSOFTKEY	*PGM	CLP	49152	**** STRSOFTKEY JET/PRIMEUR
XDEBUG	*PGM	CLLE	90112	Break per debug
CWBUNNAFBI	*SQLPKG		118784	
QZDAPKG	*SQLPKG		503808	
TSPLPRD	*MODULE	CLE	462848	LPR PRINT DRIVER EXIT PROGRAM
AUDITR0393	*JRNRCV		32501760	
AUDITR0394	*JRNRCV		6811648	