

Chapter 13

Exit Programs

Interface between i-effect[®] and Business Specific Workflow

i-effect[®] allows to call up user-defined exit programs at different, defined processing units. Furthermore, afore defined data and data extracted from source files can be passed to these exit programs.

By this, all i-effect[®] processes can perfectly be integrated into a business company's individual workflows.

The basis for the following examples of exit programs is in each case a concrete scenario. While i-effect[®] as standard application in combination with the particular exit program realizes the desired workflow in the iSeries system, the exit programs cover the company specific side.

Example of a Type 1 Exit Program (RPGLE)

The example program shows how an exit program can be used in **CVTSPL** in order to create meaningful names for data stream files generated with this command. In CVTSPL it is given with the following syntax:

```
EXITPGM(*LIBL/EXITREN *TYPE1)
```

It is assumed that option **EXITPGMPRM(*POS)** or **EXITPGMPRM(*KEY)** is used to extract details from a report, which is then given to the exit program in the ninth place of the **EXITPGMPRM** parameter. Details might be client names, reference number, invoice number, etc.

```
EXITPGMPRM(*POS)
```

```
EXITPGMPOS>(*ALL 10 60 10 *ROWCOL))
```

The data stream file is renamed. The name given by CVTSPL turns into the name nnnnnn.pdf, whereas nnnnnn is the number extracted from the report that was transmitted as parameter. The source file of the following program can be found in the i-effect® working library in the **ORPGLESRC** file.

```
H COPYRIGHT('© menten GmbH, 2003')
**-----**
**                               tt                               **
**      mmmmm  eeeee  nnnnn  tt  eeee  nnnnn  **
**      m m m e e n n ttt e e n n  **
**      m m m eeeee n n tt eeeee n n  **
**      m m m e     n n tt e     n n  **
**      m m m eeeee n n ttt eeeee n n  **
**                               **
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**      Telefax +49 2202-2399 23                               **
**      Email info@menten-gmbh.de                             **
**      Homepage http://www.menten-gmbh.de                    **
**-----**
** PROGRAM      : EXITREN                                     **
** **
** BESCHREIBUNG : Sample 'TYPE 1' CVTSPL exit program for rename **
**      streamfile -> CustomerNr.pdf                          **
** **
** DATUM        : Aug. 2002                                    **
** **
** AUTOR        : Ilja Kolsow                                 **
**-----**
** Änderungsdatum :                                          **
** Änderungsgrund :                                          **
** Autor          :                                          **
**-----**
** PROTOTYPE FOR STANDARD EXIT PROGRAM PARAMETERS           **
**-----**
D Parameters      PR              ExtPgm('EXITREN')
* Spooled file name
D iaSplFile       10A
* Name of the job which created the spooled file
D iaSplJob        10A
* User id of the job which created the spooled file
D iaSplUser       10A
```

```
* Job number of the job which created the spooled file
D iaSplJobNo      6A
* Spooled file number of the spooled file
D iiSplNbr        10I 0
* Spooled file user data
D iaUsrDta        10A
* Name of the stream file created
D iaStmFile       128A
* IFS directory in which stream file was created
D iaDir           256A
* Exit program parameter string extracted from spooled file
D iaExitParm      1024A
**
**-----**
** PROTOTYPE FOR QCMDEXC                                     **
**-----**
**
D Command         PR              ExtPgm('QCMDEXC')
D iaCommand        32767A  CONST OPTIONS(*VARSIZE)
D inCmdLen         15P 5 CONST
**-----**
** STANDARD EXIT PROGRAM PARAMETERS                         **
**-----**
D Parameters      PI
* Spooled file name
D iaSplFile       10A
* Name of the job which created the spooled file
D iaSplJob        10A
* User id of the job which created the spooled file
D iaSplUser       10A
* Job number of the job which created the spooled file
D iaSplJobNo      6A
* Spooled file number of the spooled file
D iiSplNbr        10I 0
* Spooled file user data
D iaUsrDta        10A
* Name of the stream file created
D iaStmFile       128A
* IFS directory in which stream file was created
D iaDir           256A
* User-definable exit program parameter.
D iaExitParm      1024A
**
D laOldName       S              1024A
D laNewName       S              1024A
**
D QUOTE          C              ''''
**
D i              S              10I 0
**-----**
```

```

** main procedure **
**-----**
**
* If customer number found and passed as parameter, rename stream file
C          IF          iaExitParm <> *BLANKS
**
* Set up full path name to stream file
C          IF          iaDir = *BLANKS
C          EVAL          laOldName = QUOTE
C                          + %trim(iaStmFile)
C                          + QUOTE
C          ELSE
C          EVAL          laOldName = QUOTE
C                          + %trim(iaDir)
C                          + '/'
C                          + %trim(iaStmFile)
C                          + QUOTE
**
* Set up new path name for file using customer number in parameter
C          EVAL          laNewName = QUOTE
C                          + %trim(%subst(iaExitParm:1:10))
C                          + '.pdf'
C                          + QUOTE
**
* Rename the stream file
C          CALLP(E) Command( 'REN '
C                          + laOldName
C                          + ' '
C                          + laNewName:2053)
**
C          dow          %error
**
C          EVAL          i = i + 1
* Set up new path name for file using customer number in parameter
C          EVAL          laNewName = QUOTE
C                          + %trim(%subst(iaExitParm:1:10))
C                          + '_' + %trim(%editc(i:'Z'))
C                          + '.pdf'
C                          + QUOTE
* Rename the stream file
C          CALLP(E) Command( 'REN '
C                          + laOldName
C                          + ' '
C                          + laNewName:2053)
C          EndDo
C          ENDIF
**
C          RETURN

```

Example of a Type 1 Exit Program (CLLE)

The example program shows how an exit program can be used in **CVTSPL** in order to create meaningful names for data stream files generated with this command. The source file of the following program can be found in the i-effect® working library in the **QCLESRC** file.

```

/*-----*/
/*          tt          */
/*          mmmmmm   eeeee   nnnnnn   tt   eeeee   nnnnnn   */
/*          m m m e   e n   n tttt e   e n   n          */
/*          m m m eeeeeee n   n tt   eeeeeee n   n          */
/*          m m m e   n   n tt   e   n   n          */
/*          m m m eeeeeee n   n ttt   eeeeeee n   n          */
/*          */
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/*          */
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/*          Telefax +49 2202-2399 23          */
/*          Email   info@menten-gmbh.de          */
/*          Homepage http://www.menten-gmbh.de          */
/*-----*/
/*          */
/* PROGRAMM      : GZPEXIT          */
/*          */
/* BESCHREIBUNG : Sample 'TYPE 1' CVTSPL exit program for rename          */
/*          streamfile -> CustomerNr.pdf          */
/*          */
/*          */
/* DATUM        : September 2002          */
/*          */
/*          */
/* AUTOR        : Ilja Kolosow          */
/*          */
/*-----*/
/* Änderungsdatum :          */
/* Änderungsgrund :          */
/* Autor          :          */
/*-----*/
PGM          PARM(&FILENAME &JOBNAME &USERID &JOBNBR +
&FILENBR &USERDTA &PDFNAME &PDFPATH +
&USRPARM)
COPYRIGHT TEXT('© menten GmbH, 2003')
/* Spooled file name */
DCL          VAR(&FILENAME) TYPE(*CHAR) LEN(10)
/* Name of the job which created the spooled file */

```

```

DCL      VAR(&JOBNAME) TYPE(*CHAR) LEN(10)
/* User id of the job which created the spooled file */
DCL      VAR(&USERID) TYPE(*CHAR) LEN(10)
/* Job number of the job which created the spooled file */
DCL      VAR(&JOBNBR) TYPE(*CHAR) LEN(10)
/* Spooled file number of the spooled file */
DCL      VAR(&FILENBR) TYPE(*DEC) LEN(4 0)
/* Spooled file user data */
DCL      VAR(&USERDTA) TYPE(*CHAR) LEN(10)
/* Name of the stream file created */
DCL      VAR(&PDFNAME) TYPE(*CHAR) LEN(128)
/* IFS directory in which stream file was created */
DCL      VAR(&PDFPATH) TYPE(*CHAR) LEN(128)
/* Exit program parameter string extracted from spooled file */
DCL      VAR(&USRPARM) TYPE(*CHAR) LEN(1024)
DCL      VAR(&FILE) TYPE(*CHAR) LEN(512)
DCL      VAR(&FILE1) TYPE(*CHAR) LEN(512)
DCL      VAR(&PDFNAME1) TYPE(*CHAR) LEN(128)

/**/
/* Globale Fehlerbehandlung */
/**/

MONMSG   MSGID(RPG0000 CPF0000 GZI0000 CEE0000) +
        EXEC(GOTO CMDLBL(ERROR))

/**/
/* Name der soeben erzeugten PDF-Datei */
/**/

CHGVAR   VAR(&FILE) VALUE(&PDFPATH *TCAT '/' *TCAT +
        &PDFNAME)

/**/
/* An dieser Stelle müssen die Werte der nachfolgenden Variablen */
/* gefüllt werden. */

CHGVAR   VAR(&PDFNAME1) VALUE(&USRPARM)
CHGVAR   VAR(&PDFNAME1) VALUE(&PDFNAME1 *TCAT '.pdf')
REN      OBJ(&FILE) NEWOBJ(&PDFNAME1)

RETURN

/**/
/* Fehlerbehandlung */
/**/

ERROR:

SNDPGMSG MSGID(CPF9898) MSGF(*LIBL/QCPFMSG) +
        MSGDTA('Das i-effect Exit-Programm wurde +
        abnormal beendet') MSGTYPE(*ESCAPE)

END:      ENDPGM

```

Example of a Type 2 Exit Program (RPGLE)

In the type 2 example program, the exit program **EXITSNDEML** uses a **type 2 parameter list (*TYPE2)**.

It shall be called up for every newly created data stream file in order to immediately and automatically send it to the designated client via email.

EXITPGM(*LIBL/EXITSNDEML *TYPE2)

It is assumed that option **EXITPGMPRM(*POS)** or **EXITPGMPRM(*KEY)** is used to extract the customer number from the report. This customer number serves to determine the customer address in the customer database. The i-effect® command **SNDEMAIL** is then used to send the data stream file to the respective customer. The source file of the following example program as well as the **CUSTFILE** source file can be found in the i-effect® working library in the **QRPGLESRC** and **QDDSSRC** files.

```

H COPYRIGHT('© menten GmbH, 2003')
**-----**
**                                     tt                                     **
**      mmmmmmm   eeeee   nnnnnn   tt   eeeee   nnnnnn   **
**      m m m e   e   n   n   tttt e   e   n   n   **
**      m m m eeeeeee n   n   tt   eeeeeee n   n   **
**      m m m e   n   n   tt   e   n   n   **
**      m m m eeeeeee n   n   ttt   eeeeeee n   n   **
**
**
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**           Telefax +49 2202-2399 23
**           Email   info@menten-gmbh.de
**           Homepage http://www.menten-gmbh.de
**-----**
** PROGRAM NAME: EXITSNDEML
**
**
** APPLICATION : CVTSPL command
**
**
** LANGUAGE    : ILE RPG
**
**
** AUTHOR      : Ilja Kolosow

```

```

**                                     **
** DATE WRITTEN: Sep. 2002           **
**                                     **
** DESCRIPTION : Sample 'TYPE 2' CVTSPL exit program for sending a **
**               stream file via e-mail using the SNDEMAIL command **
**               of i-effect          **
**-----**
* Customer file
FCustFile IF E          K DISK  RENAME(CUSTFILE:CUSTFILER)
**-----**
** PROTOTYPE FOR STANDARD EXIT PROGRAM PARAMETERS **
**-----**
D Parameters      PR          EXTPGM('EXITSNDEML')
* Spooled file name
D  iaSplFile          10A
* Name of the job which created the spooled file
D  iaSplJob           10A
* User id of the job which created the spooled file
D  iaSplUser          10A
* Job number of the job which created the spooled file
D  iaSplJobNo         6A
* Spooled file number of the spooled file
D  iiSplNbr           10I 0
* Spooled file user data
D  iaUsrDta           10A
* Name of the stream file created
D  iaStmFile          128A
* IFS directory in which stream file was created
D  iaDir              256A
* Page number of the first page in the range processed
D  iiFirstPage        10I 0
* Page number of the last page in the range processed
D  iiLastPage         10I 0
* Exit program parameter count
D  iiParmCount        10I 0
* User-definable exit program parameter strings. Up to 150 of these
* may follow. Define as many as you need.
D  iaUserParam1       999A      OPTIONS(*NOPASS)
D                                     VARYING
D  iaUserParam2       999A      OPTIONS(*NOPASS)
D                                     VARYING
D  iaUserParam3       999A      OPTIONS(*NOPASS)
D                                     VARYING
**-----**
** PROTOTYPE FOR QCMDEXC           **
**-----**
D Command          PR          ExtPgm('QCMDEXC')
D  iaCommand        32767A  CONST OPTIONS(*VARSIZE)
D  inCmdLen          15P 5  CONST
**-----**

```

```

** STANDARD EXIT PROGRAM PARAMETERS **
**-----**
D Parameters      PI
D  iaSplFile          10A
D  iaSplJob           10A
D  iaSplUser          10A
D  iaSplJobNo         6A
D  iiSplNbr           10I 0
D  iaUsrDta           10A
D  iaStmFile          128A
D  iaDir              256A
D  iiFirstPage        10I 0
D  iiLastPage         10I 0
D  iiParmCount        10I 0
D  iaUserParam1       999A      OPTIONS(*NOPASS)
D                                     VARYING
D  iaUserParam2       999A      OPTIONS(*NOPASS)
D                                     VARYING
D  iaUserParam3       999A      OPTIONS(*NOPASS)
D                                     VARYING
D waCustomerNo       S          10A
D waCommand           S          1024A
D wnCmdLen            S          15P 5
D QUOTE              C          ''''
* This example assumes that the EXITPGMPRM, EXITPGMPOS and EXITPGMKEY
* parameters have been used to extract the customer number from the
* spooled file, and that the first user-definable parameter contains the
* customer number (assumed to be 10 characters for the purposes of
* this example).
* Make sure at least one parameter was passed and that the parameter
* passed is not too short
C                                     IF          iiParmCount < 1
C                                     or %len(iaUserParam1) < %size(waCustomerNo)
* Insert appropriate error handling here
C                                     RETURN
C                                     ENDIF
* Extract the customer number from the parameter string
C                                     EVAL          waCustomerNo = %subst(iaUserParam1
C                                     1
C                                     %len(waCustomerNo))
* Retrieve the customer's e-mail address from the customer file
C waCustomerNo CHAIN CustFile
C                                     IF          not %found(CustFile)
* Insert appropriate error handling here
C                                     RETURN
C                                     ENDIF
* Build the SNDEMAIL command
C                                     EVAL          waCommand = 'SNDEMAIL '
C                                     + 'RECIPIENT(' + QUOTE
* „CustEMail“ is assumed to be the customer's email address field

```

```

* from the customer file
C          + %trim(CustEMail) + QUOTE
C          + ' ) '
* DSTD parameter below is the „subject“ line that will appear for
* the e-mail. Substitute your choice of subject line
C          + 'SUBJECT('
C          + QUOTE
C          + 'Your invoice from i-effect'
C          + QUOTE
C          + ' ) '
* MSG parameter below is a brief message to accompany the attachment.
* Substitute your choice of message.
C          + 'MSGTEXT('
C          + QUOTE
C          + 'Your invoice is'
C          + ' attached. Thank you for your '
C          + 'custom.'
C          + QUOTE
C          + ' ) '
* The document name and folder names are passed into this program from
* CVTSPL. The document name if generated from the OUTPFILE parameter
* with the addition of a numeric suffix for each spooled file created.
C          + 'ATTACH(' + QUOTE
C          + %trim(%trim(iaDir) + '/'
C          + %trim(iaStmFile)) + QUOTE
C          + ' ) '
C          eval      wnCmdLen = %len(waCommand)
* e-mail the stream file to the customer
C          CALLP(E)  Command(waCommand:wnCmdLen)
C          IF      %error
* Insert appropriate error handling here
C          ELSE
* Send OK message
C          ENDF
C          RETURN
    
```

EXITSNDEML – Individual Programming

In the following example, the spool file **INVNEW1** from the **QSAMPLER** library (IBM AFP **Examples**) is used.

It is assumed that option **EXITPGMPRM(*POS)** or **EXITPGMPRM(*KEY)** was used to extract the customer number from the report. This customer number serves to determine the customer's email address in the customer database. The **i-effect®** command **SNDEMAIL** is then used to send the data stream file to the respective customer. The source file of the following example program as well as the **CUSTFILE** source file can be found in the **i-effect®** working library in the **QRPGLESRC** and **QDDSSRC** files.

Work with all spooled files

Enter option and press enter.

- 1=Send 2=Change 3=Stop 4=Delete 5=Display 6=Release
- 7=Messages 8=Attribute 9=Work with printing status

Opt	File	Queue	Library	Date	Last used	Spooled- File	Size (K)
5	INVNEW1	CUSTOMER	KOLOSOW	1 24.08.04			44

Display spooled file

```

File . . . . . : INVNEW1                               Page/Line 1/18
Control . . . . +1_____                            Colum 1 - 78
Search . . . . . _____
    
```

```

*.....1.....2.....3.....4.....5.....6.....7.....
          100          31300          13.02.03          3/13/03
          BEST WAY          13.02.03          NET 30          YOUR PRINTER RE
1 CT 00000300 HIGH ALTITUDE WATERMELON 1.01 1.01
1 PK 01100517 SPARTAN SEEDS 2.39 2.39
9 PK 04569870 NORTHERN LITE BLUE SPRUCE 858.32 7,724.88
12 BX 11005004 BUSH GREEN SEEDS 2.50 30.00
12 CT 11005011 LASSO RED SEEDS 892.23 10,706.76
26 PK 11005018 EARLY BANTAM SEEDS .38 9.88
5 BX 11057893 AFRICAN DAISY, SEEDS 2.35 11.75
1 PK 15975365 HEAVY OAK 129.09 129.09
33 BX 32746510 HOPS BREWING LIGHT 1.20 39.60
6 EA 46578913 SEED SURVEYING SITE 50.00 300.00
2 BX 56413213 POT POT 7.65 15.30
80 PK 65412384 SEED SCRUBBER 888.79 71,103.20
1 PK 84512023 OREGON SPRING TOMATO SEED .97 .97
2 DZ 96325874 PINEAPPLE-ORANGE SEEDS 1.29 2.58
    
```

Weitere ...

Convert Spool File(s) (CVTSPL)

Enter option and press enter.

```

Split per Position:          SPLITPOS
  Line No. or y-coordinate    > 18_____
  Character Pos. or. x-coordinate > 17_____
  Length . . . . .           3_____
  Testing method . . . . .    *ROWCOL
  Comparison . . . . .       *NE
  Character String to be compared *PRV_____

Exit Programs:              EXITPGM
  File Generation . . . . .    > EXITSNDEML
  Library . . . . .           > IEFFECT__
  Parameter Format . . . . .    > *TYPE2
  Pagination . . . . .        *NONE_____
  Library . . . . .           _____
  Parameter Format . . . . .    *TYPE1
  File End . . . . .          *NONE_____
  Library . . . . .           _____
  Parameter Format . . . . .    *TYPE1
  Exit Program before File Generation *NONE_____
  Library . . . . .           _____
  Parameter Format . . . . .    *TYPE1

Exit Program Parameter:     EXITPGMPRM
  Parameter Type . . . . .     *POS_
  CCSID of Parameter Data . . *SPLF__

Exit Progr.Param. String Pos.: EXITPGMPOS _
  Page Number . . . . .       > 1_____
  Line No. or y-coordinate    > 18_____
  Character Pos. or. x-coordinate > 17_____
  Length . . . . .           3_____
  Testing method . . . . .     *ROWCOL

```

+ for further values _

Example Allocation Costumer Number -> Email Address:

Display Physical File Member

```

File . . . . . : CUSTFILE      Library . . . . . : GZIPR7
File Member . . : CUSTFILE1    Set . . . . . : 1
Control . . . . : _____   Column . . . . . : 1
Search . . . . . : _____

*...+...1...+...2...+...3...+...4...+...5...+...6...+...7...+...
100      100.MUSTERMANN@MENTEN-GMBH.DE      TEST CUSTOMER SNDE
136      136.MUSTERMANN@MENTEN-GMBH.DE      TEST CUSTOMER SNDE
141      141.MUSTERMANN@MENTEN-GMBH.DE      TEST CUSTOMER SNDE
154      154.MUSTERMANN@MENTEN-GMBH.DE      TEST CUSTOMER SNDE

***** DATENENDE *****

```

```

CVTSPL FILE(INVNEW1)
  JOBNAM(011085/KOLOSOW/QPRTJOB)
  SPLNBR(105)
  OUTPFILE(`TMP%$SPLFILENAME`)
  PAGESIZE(*A4 *PORTRAIT)
  SPLIT(*POS)
  SPLITPOS(18 17 3)
  EXITPGM(IEFFECT/EXITSNDEML *TYPE2)
  EXITPGMPRM(*POS)
  EXITPGMPOS((1 18 17 3))
...
SPLIT(*POS) Process of Parameter Element 1 chose Text „100“.
EXITPGMPRM(*POS) Process of Parameter Element 1 chose Text „100“.

SPLIT(*POS) Process of Parameter Element 1 chose Text „136“.
EXITPGMPRM(*POS) Process of Parameter Element 1 chose Text „136“.

SPLIT(*POS) Process of Parameter Element 1 chose Text „ 56“.
EXITPGMPRM(*POS) Process of Parameter Element 1 chose Text „ 56“.

SPLIT(*POS) Process of Parameter Element 1 chose Text „141“.
EXITPGMPRM(*POS) Process of Parameter Element 1 chose Text „141“.

SPLIT(*POS) Process of Parameter Element 1 chose Text „154“.
EXITPGMPRM(*POS) Process of Parameter Element 1 chose Text „154“.
...
Spooled File INVNEW1 converted into data stream file /TMP/INVNEW1_30.pdf.
Email saved in archive file /gzip400/archive/mail/out/M2133.EML.
Connection to email server davad established
At: 100.MUSTERMANN@MENTEN-GMBH.DE
Attachment /TMP/INVNEW1_30.pdf sent.
Connection to email server davad ended
SNDEMAIL normally ended.
Exit program EXITSNDEML ended normally.

Spooled File INVNEW1 converted into data stream file /TMP/INVNEW1_31.pdf.
Email saved in archive file /gzip400/archive/mail/out/M2134.EML.
Connection to email server davad established
At: 136.MUSTERMANN@MENTEN-GMBH.DE
Attachment /TMP/INVNEW1_31.pdf sent.
Connection to email server davad ended
SNDEMAIL normally ended.
Exit program EXITSNDEML ended normally.

Spooled File INVNEW1 converted into data stream file /TMP/INVNEW1_32.pdf.
Exit program error: customer number 56 not found in CUSTFILE!.
Spool File INVNEW1 converted into data stream file /TMP/INVNEW1_33.pdf.
Email saved in archive file /gzip400/archive/mail/out/M2135.EML.
Connection to email server davad established
At: 141.MUSTERMANN@MENTEN-GMBH.DE

```

Attachment /TMP/INVNEW1_33.pdf sent.
 Connection to email server davad ended
 SNDEMAIL normally ended.
 Exit program EXITSNDEML ended normally.

Spooled File INVNEW1 converted into data stream file /TMP/INVNEW1_34.pdf.
 Email saved in archive file /gzip400/archive/mail/out/M2136.EML.
 Connection to email server davad established
 At: 154.MUSTERMANN@MENTEN-GMBH.DE
 Attachment /TMP/INVNEW1_34.pdf sent.
 Connection to email server davad ended
 SNDEMAIL normally ended.
 Exit program EXITSNDEML ended normally.

Spooled file INVNEW1 converted into *PDF.
 Spool file INVNEW1 from Job QPRTJOB/KOLOSOW/011085 Number 000105
 successfully processed.
 0000000001 Spool entries successfully converted.
 i-effect Processing ended.



