# Application Note

InkCenter CIP3 file generation for ControlCenter

October 2005 - rev 1

This document outlines the configuration of InkCenter used for generation CIP3 files for various target systems. For CIP4/JDF file generation see the application note *InkCenter JDF output for ink estimation.*

Introduction

The InkCenter application can be connected to the ControlCenter database is order to produce CIP3 files for press control systems based on files used for plate generation. The input to InkCenter is tiff files in an input folder. These tiff files are copies of files generated by the OutputCenter application at the time of output. OutputCenter adds a plate-ID number to the filename. This number serves as a unique query to the database, determining job attributes required for correct CIP3 file generation.
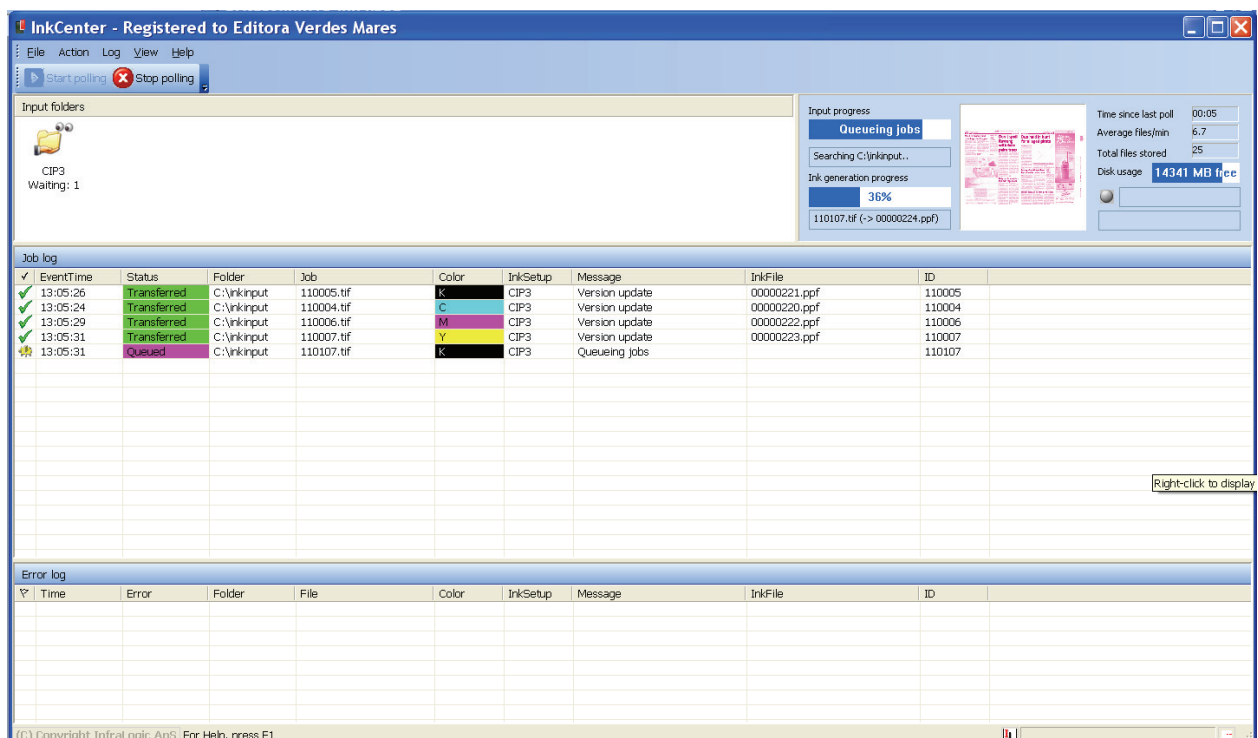
Basic requirements

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InkCenter version 1.3 or later

ControlCenter version 1.1 or newer

How it works

Input to InkCenter will be tiff-files with a name like
<somename>-<ID-number>.tif. The ID-number is a reference
(PlateSeparation) in the ControlCenter database, which is used to extract
file ID information like publication name, section name, page numbers etc.
The output will be a preview file in CIP3 format with combined color layers.
Alternatively one file per color can be generated (e.g. for EPG press
control). The resulting file name depends on the selected target system.

For GMI and Heidelberg systems the resulting file name is in the form

*<Publication>-<Date>-<Section>-<Edition>-<PageNumber>[-<Color>].*ppf

where the page number is lowest number on the flat and abbreviations for
publication, section and edition are used if defined in the ControlCenter
configuration (Output Abbreviation). The color name is only used for
separated output.

For MAN Roland PECOM the resulting file name is

dvs<pairsetnumber>.ppf

Apart from the file name target systems uses CIP3 tags for job recognition.
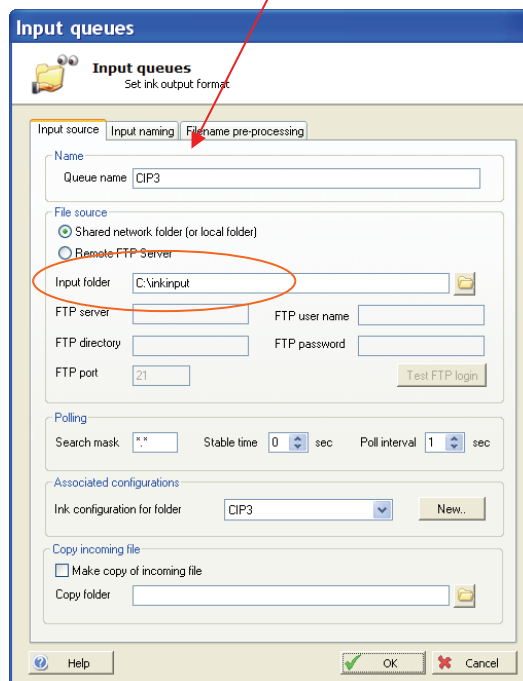The tags required and their interpretation is format specific.

Configuration

STEP 1: Install InkCenter using the installation CD – see User manual chapter 2 for details. Start InkCenter. During the installation a default ODBC data source connection is created.

STEP 2: Ensure that the ODBC data source for the ControlCenter database works.

STEP 3: Edit the predefined **Input queue (File->Configure input queue)**

Change the **Input folder** to the folder where OutputCenter makes a copy of the plate image file (See STEP 4).

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Input queues

Input queues
Define optional name translation

Input source | Input naming | Filename pre-processing

Name recognition
☑ Use plug-in for name recognition (requires %! in filename)

Plug-in to use   ControlCenter ▼   Config..

Input filename conversion   %!.tif

Use identifier from list
%J: jobname   %H: sheetside
%C: colorname   %1: 1. pagenumber
%P: publication   %2: 2. pagenumber
%I: issue   %3: 3. pagenumber
%E: edition   %4: 4. pagenumber
%S: section   %5: 5. pagenumber
%D: pubdate   %6: 6. pagenumber
%F: formID   %7: 7. pagenumber
%#: formID2   %8: 8. pagenumber
%T: title   %!: Unique plate-ID
%G: sheet number   %X: don't care

Date format (eg. DDMMYY)   DDMM

Separator character(s)   -_.,@!#()

Dummy page names   dummy,100,101,102,103,X
(separate by comma)

☐ Extract sectionname from page (Ex. B17 -> Section B pagenumber 17)

Default section name   _____ (Leave blank if not used)

Help   ✓ OK   ✗ Cancel

Plug-in properties

Database connection
ODBC Data Source Name   CC
Data Source username   sa
Data Source password   •••••

Backup database connection
ODBC Data Source Name   CCBU
Data Source username   sa
Data Source password   •••••
Backup notification server   unknown
Backup notification server   6009

Status feedback
☑ Update external status code
External status code success   90
External status code error   91

✓ OK   ✗ Cancel

Check the **Use Plug-in for name recognition** option and select ControlCenter

The filename mask is not used if ControlCenter plug-in is used.

Click the **Config** button to set the database connection (ODBC).

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STEP 4:   In the OutputCenter plate layout configuration ensure that a copy of the plate image file is sent to InkCenter
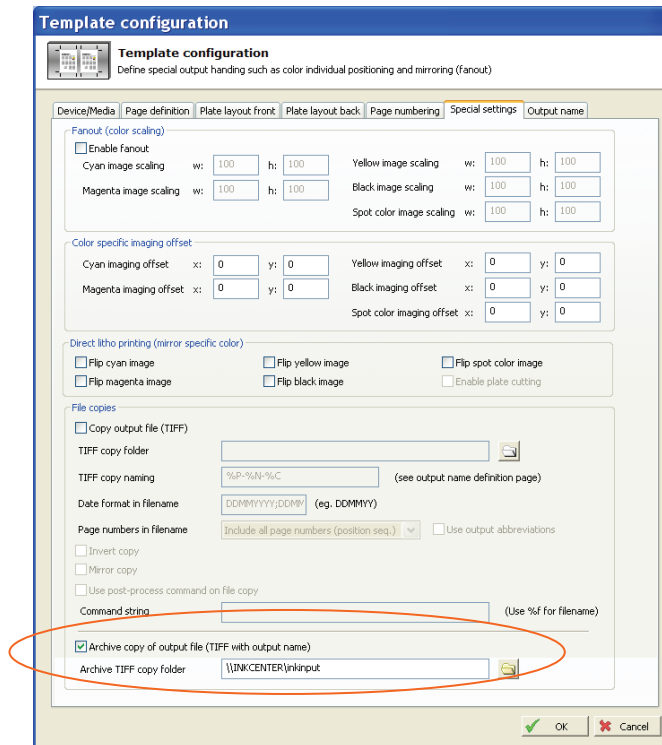

OutputCenter layout template setup. InkCenter requires a copy of the generated TIFF file to the InkCenter hot-folder

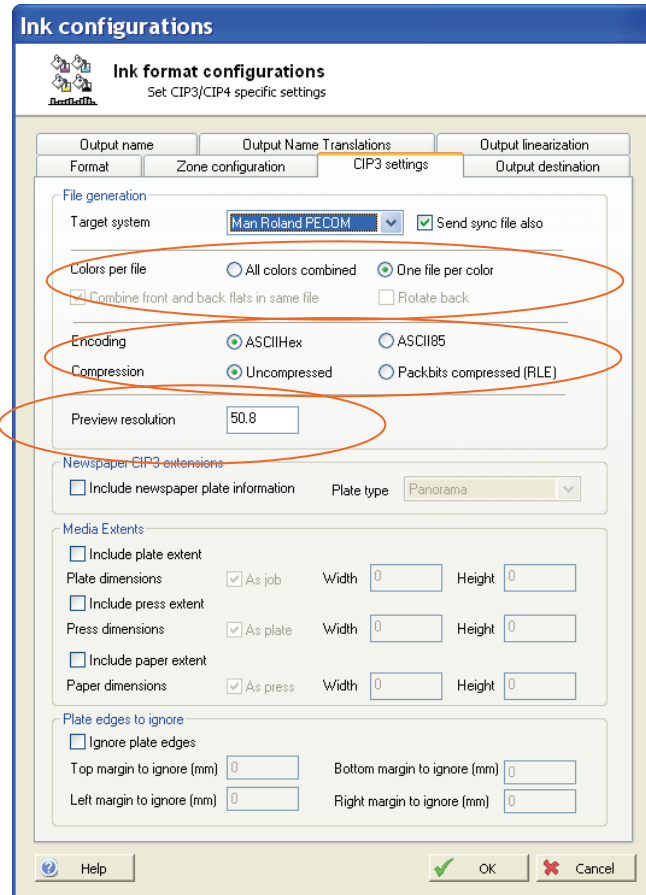STEP 5:   Edit the predefined **Ink generation setup (File->Configure ink generation)**

The first page links an important **Template header file** to the setup. This file is the skeleton for the CIP3 header including naming conventions. The template file can be edited in a text editor if required.

If required the incoming TIFF file can be pre-**rotated** prior to CIP3 generation
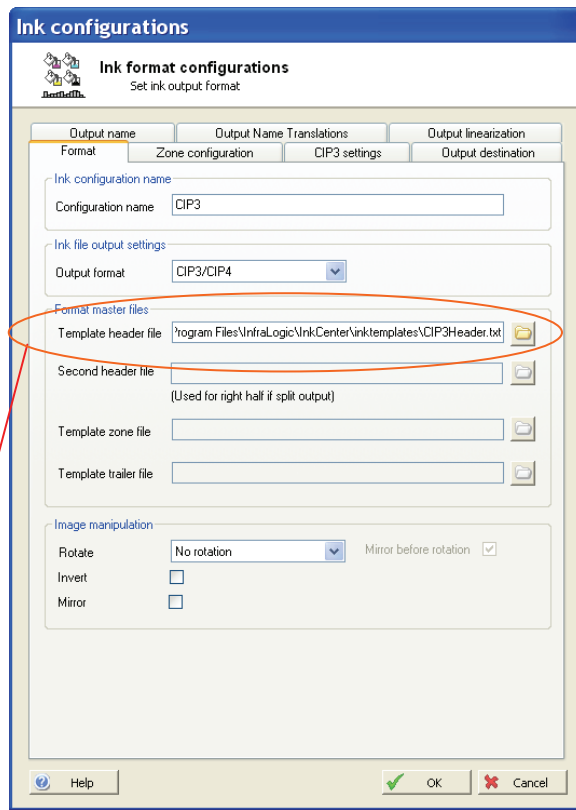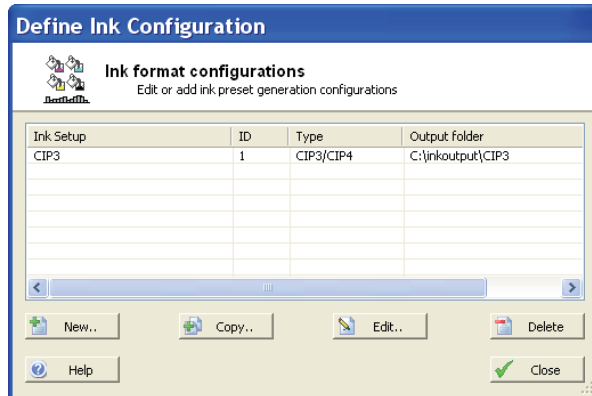

```
CIP3BeginSheet
   /CIP3AdmJobName (%P-%E-%D) def
   /CIP3AdmSheetName (%S/%1) def
   /CIP3AdmCreationTime (%Y) def
   /CIP3AdmMake (InfraLogic ApS) def
   /CIP3AdmSoftware (InkCenter) def
   /CIP3AdmSheetLay /Left def
   /CIP3AdmPSExtent [%( cm %) cm] def
   /CIP3TransferFilmCurveData [ 0.0 0.0 1.0 1.0 ] def
   /CIP3TransferPlateCurveData [ 0.0 0.0 1.0 1.0 ] def
```
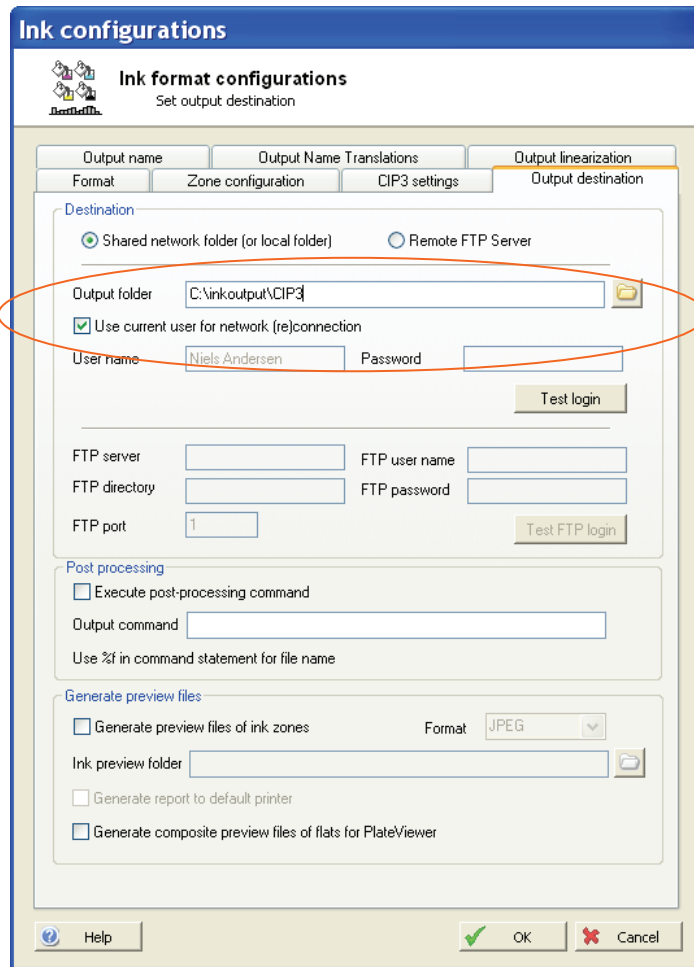
Ink configurations

Ink format configurations
Set CIP3/CIP4 specific settings

| Output name | Output Name Translations | Output linearization |
| Format | Zone configuration | CIP3 settings | Output destination |

File generation

Target system   Man Roland PECOM   ☑ Send sync file also

Colors per file   ○ All colors combined   ⦿ One file per color
☑ Combine front and back flats in same file   ☐ Rotate back

Encoding   ⦿ ASCIIHex   ○ ASCII85
Compression   ⦿ Uncompressed   ○ Packbits compressed (RLE)

Preview resolution   50.8

Newspaper CIP3 extensions
☐ Include newspaper plate information   Plate type   Panorama

Media Extents
☐ Include plate extent
Plate dimensions   ☑ As job   Width 0   Height 0
☐ Include press extent
Press dimensions   ☑ As plate   Width 0   Height 0
☐ Include paper extent
Paper dimensions   ☑ As press   Width 0   Height 0

Plate edges to ignore
☐ Ignore plate edges
Top margin to ignore (mm) 0   Bottom margin to ignore (mm) 0
Left margin to ignore (mm) 0   Right margin to ignore (mm) 0

ⓘ Help   ✓ OK   ✗ Cancel

STEP 6:   Go to **CIP3 settings** and select the target system**.** If the target system
requires one file per plate (color), select this in **Colors per file** section.

InkCenter further allows the combination of front and back sheet in one
CIP3 file.

Some systems cannot handle compression and ASCII85 encoding.
Check with press control vendor for supported formats. The **resolution**
for CIP3 files is usually 50.8 or 25.4 dpi but other values are allowed.

STEP 7:   Go to **Output destination** and select the target system folder

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STEP 8:   Go to **Output name** and set output file naming according to requirements for the CIP3 target system. For PECOM set %W.ppf as **Output name definition.**

Ink configurations

Ink format configurations
Set output name

| Format | Zone configuration | CIP3 settings | Output destination |
| Output name | Output Name Translations | Output linearization |

Naming

Output name definition   %W.ppf

Output name right half

Use identifiers from list
%J: Jobname (inputfile)   %W: Msg ID (sequencial number)
%C: Colorname   %1: 1. pagenumber
%P: Publication   %2: 2. pagenumber
%E: Edition   %3: 3. pagenumber
%I: Issue   %4: 4. pagenumber
%S: Section   %5: 5. pagenumber
%D: Pubdate   %6: 6. pagenumber
%F: FormID   %7: 7. pagenumber
%#: FormID2   %8: 8. pagenumber
%M: Event time   %G: Sheet number
%H: Sheetside

Date format   DDMMYYYY   (eg. DDMMYY)

1. output pagenumber   min

2. output pagenumber   %2

3. output pagenumber   %3

4. output pagenumber   %4

5. output pagenumber   %5

6. output pagenumber   %6

7. output pagenumber   %7

8. output pagenumber   %8

Enter input pagenumber id(s)
to use for output pagenumber
Examples:

%1   (Input pageno %1)
min(%1,%2)   (Lowest of %1,%2)
min(%5,%6,%7,%8)   (Lowest of four)
min2(%1,%2,%3,%4)   (Second lowest)
max(%1,%2)   (Highest of two)
max2(%1,%2,%3,%4)   (Second highest)

Page zero-extension   No zero-extension

Help   OK   Cancel

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Format details – GMI

GMI follows the CIP3 addendum standard for newspaper. However, the standard does not say how to describe a 4-up tabloid plate – only 2-up tabloids or 2-up broadsheets (panorama). The InkCenter will describe the 4-up by using the /AbsoluteBroadsheetPage definition (as /AbsoluteTabloidPage is not part of CIP3). The following example shows the header of a single color 4-up CIP3 file with the following attributes:

JobName: *Pubname-Pubdate-edition-section*
Sheetname: *lowest page number*

For halfweb dinkies/dummies the PageNumber will be 0.

```
%!PS-Adobe-3.0
%%CIP3-File Version 2.0
CIP3BeginProductDefinition
/CIP3Products
[ <<
   /CIP3NewspaperPlateInfo
  [   << /AbsoluteBroadsheetPage 1
     /PageType /Tabloid
     /PageSection (MN)
     /PageNumber (12)
    >>   << /AbsoluteBroadsheetPage 1
     /PageType /Tabloid
     /PageSection (MN)
     /PageNumber (13)
    >>   << /AbsoluteBroadsheetPage 1
     /PageType /Tabloid
     /PageSection (MN)
     /PageNumber (1)
    >>   << /AbsoluteBroadsheetPage 1
     /PageType /Tabloid
     /PageSection (MN)
     /PageNumber (24)
    >>] def
 >> ] def
CIP3EndProductDefinition
CIP3BeginSheet
 /CIP3AdmJobName (ME-09182002-HP-MN) def
 /CIP3AdmSheetName (001) def
 /CIP3AdmCreationTime (1-10-2002 11:23:09) def
 /CIP3AdmMake (InfraLogic ApS) def
 /CIP3AdmSoftware (InkCenter) def
 /CIP3AdmSheetLay /Left def
 /CIP3AdmPSExtent [75.2 cm 53.1 cm] def
 /CIP3TransferFilmCurveData [ 0.0 0.0 1.0 1.0 ] def
 /CIP3TransferPlateCurveData [ 0.0 0.0 1.0 1.0 ] def
 CIP3BeginFront
  /CIP3AdmSeparationNames [ (Cyan) ] def
  CIP3BeginPreviewImage
    CIP3BeginSeparation
     (Cyan separation) CIP3Comment
```

```
/CIP3PreviewImageWidth 1504 def
/CIP3PreviewImageHeight 1062 def
/CIP3PreviewImageBitsPerComp 8 def
/CIP3PreviewImageComponents 1 def
/CIP3PreviewImageMatrix [1504 0 0 -1062 0 1062] def
/CIP3PreviewImageResolution [50.8 50.8] def
/CIP3PreviewImageEncoding /ASCII85Decode def
/CIP3PreviewImageCompression /None def
  CIP3PreviewImage
      ....
```

GMI does not use the file name for job recognition. InkCenter uses the following scheme to ensure unique file names:

<Publication>-<Date>-<Section>-<Edition>-<PageNumber>-<Color>.ppf

Format details – PECOM

MAN Roland PECOM does not use the CIP3 addendum to describe the job. The job attributes are coded into the CIP3 tags as follows:

JobName: *Pubname-Edition-Pubdate*
Sheetname: section/*lowest page number*

```
%!PS-Adobe-3.0
%%CIP3-File Version 2.0
CIP3BeginSheet
 /CIP3AdmJobName (ME-HP-18092002) def
 /CIP3AdmSheetName (MN/1) def
 /CIP3AdmCreationTime (28-9-2002 8:23:45) def
 /CIP3AdmMake (InfraLogic ApS) def
 /CIP3AdmSoftware (InkCenter) def
 /CIP3AdmSheetLay /Left def
 /CIP3AdmPSExtent [75.2 cm 53.1 cm] def
 /CIP3TransferFilmCurveData [ 0.0 0.0 1.0 1.0 ] def
 /CIP3TransferPlateCurveData [ 0.0 0.0 1.0 1.0 ] def
 CIP3BeginFront
  /CIP3AdmSeparationNames [ (Cyan) ] def
  CIP3BeginPreviewImage
   CIP3BeginSeparation
    (Cyan separation) CIP3Comment
   /CIP3PreviewImageWidth 1504 def
   /CIP3PreviewImageHeight 1062 def
   /CIP3PreviewImageBitsPerComp 8 def
   /CIP3PreviewImageComponents 1 def
   /CIP3PreviewImageMatrix [1504 0 0 -1062 0 1062] def
   /CIP3PreviewImageResolution [50.8 50.8] def
   /CIP3PreviewImageEncoding /ASCII85Decode def
   /CIP3PreviewImageCompression /None def
    CIP3PreviewImage
        ….
```

PECOM files are named with a unique ID-number which is the PlateSeparation number is ControlCenter:

Dsv1000001.ppf

For synchronization purposes a small file with extension .syc is written when the .ppf file is fully written. Both files are moved by PECOM.

Format details – EPG

EPG (Essex Products Group) uses the filename for job recognition. The job name is in the following format:

<Publication><editionnumber>P<lowest page number left>P<lowest page number right>.ppf.

Example: SKD1P01P12.ppf

Halfwebs has 'page number' 0 (e.g.g SKD1P07P00.ppf or SKD1P00P08.ppf)