RICOH

RICOH Transforms Suite

AFP2PDF Plus Config UI User Guide

Version 1.5

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For information not in this manual, refer to the Help System in your product.

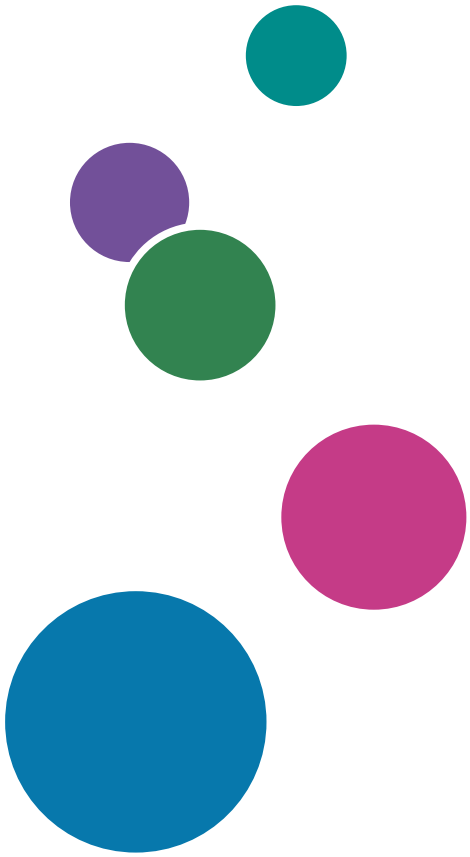


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Introduction

Important

To the maximum extent permitted by applicable laws, in no event will the manufacturer be liable for any damages whatsoever arising out of failures of this product, losses of documents or data, or the use or non-use of this product and operation manuals provided with it.

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Cautions regarding this guide

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- The contents of this document are subject to change without notice.
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Publications for RICOH Transforms Suite

This section provides a list of all the publications for RICOH Transforms Suite.

Instruction manuals

- **AFP2PDF PLUS**
  For information about AFP2PDF PLUS, see these documents:
  - *AFP2PDF Plus User Guide*
  - *AFP2PDF Plus Quick Start Guide*
  - *AFP2PDF Plus Setup Guide*
  - *AFP2PDF Plus Release Notes*
  - *AFP2PDF Plus - Summary of Updates*
  - *AFP2PDF Plus Config UI User Guide*
- **AFP Visual Environment**
  For information about AFP Visual Environment, see these documents:
  - *AFP Visual Environment User Guide*
  - *AFP Visual Environment Release Notes*

- **AFPMerge**
  For information about AFPMerge, see these documents:
  - *AFPMerge User Guide*
  - *AFPMerge Release Notes*
- **Line2PDF Plus**
  For information about Line2PDF Plus, see these documents:
  - *Line2PDF Plus User's Guide*
  - *Line2PDF Plus Release Notes*
- **PCL2PDF**
  For information about PCL2PDF, see these documents:
  - *PCL2PDF User's Guide*
  - *PCL2PDF Release Notes*
- **PS2PDF**
  For information about PS2PDF, see these documents:
  - *PS2PDF User's Guide*
  - *PS2PDF Release Notes*
- **TIFF2PDF Plus**
  For information about TIFF2PDF Plus, see these documents:
  - *TIFF2PDF Plus User Guide*
  - *TIFF2PDF Plus Release Notes*

Symbols

The following symbols are used in this manual to help you to identify content quickly.

Important

- This symbol indicates points to pay attention to when using the product. Be sure to read these explanations.

Note

- This symbol indicates helpful supplementary information that is not essential to completing a task.

Bold	**Bold type** indicates the names of commands and parameters.
Bold underline	**Underlined bold type** indicates the default value.
Italic	*Italic type* indicates variables that you must replace with your own information.
Monospace	Monospace type indicates computer input and output and file names.

[]	Square brackets indicate that a value is optional.
|	A vertical bar indicates a choice between values.
...	An ellipsis indicates that a series can continue.

Abbreviations

ACIF

AFP Conversion and Indexing Facility

AES

Advanced Encryption Standard

AFM

Adobe Font Metric

AFP

Advanced Function Presentation

API

Application programming interface

AVE

AFP Visual Environment

BCOCA

Bar Code Object Content Architecture

CMOD

Content Manager OnDemand

CMR

Color management resource

CPGID

Code Page Global Identifier

DBCS

Double-Byte Character Set

ECM

Enterprise Content Management

FIFO

First In First Out

GIF

Graphical Interchange Format

IANA

Internet Assigned Numbers Authority

ICN

IBM Content Navigator

ICU

International Components for Unicode

IP

Internet Protocol

JFIF

JPEG File Interchange Format

JPEG

Joint Photographic Experts Group

JVM

JAVA Virtual Machine

NIST

National Institute of Standards and Technology

PCL

Printer Command Language

PDF

Portable Document Format

PTOCA

Presentation Text Object Content Architecture

RAT

Resource Access Table

STC

Set Text Color

TCP/IP

Transmission Control Protocol/Internet Protocol

TIFF

Tagged Image File Format

TLE

Tag Logical Element

UT

Universal Time

Trademarks

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- z/OS

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The proper names of the Windows operating systems are as follows:

- Windows 10:
  Microsoft Windows 10 Pro

  Microsoft Windows 10 Enterprise
- Windows 11:
  Microsoft Windows 11 Pro

  Microsoft Windows 11 Enterprise
- Windows Server 2016:
  Microsoft Windows Server 2016 Standard
- Windows Server 2019:
  Microsoft Windows Server 2019 Standard
- Windows Server 2022:
  Microsoft Windows Server 2022 Standard

1. AFP2PDF Plus Config UI overview

- **Overview**
- **Limitations**
- **Requirements**
- **Getting started**

AFP2PDF Plus Config UI is a graphical tool that lets you create and modify font mapping configuration files for AFP2PDF Plus.

Overview

AFP2PDF Plus uses font mapping configuration files to give you the ability to customize the output fonts in the resulting PDF file. These configuration files control how AFP raster fonts and AFP outline fonts are mapped to Adobe Base14 fonts, Adobe Type 1 fonts, TrueType fonts, or OpenType fonts.

Editing these configuration files manually is complex and error-prone. AFP2PDF Plus Config UI simplifies font mapping by providing a visual interface where you can:

- Load AFP files and view the fonts they contain, organized by font type (coded fonts and character set/code page fonts).
- Select target fonts from categorized lists including Adobe Base14, CJK, Modified Base14, Sonoran, Adobe Type 1, and TrueType fonts.
- Configure encoding settings for each font mapping, including code page and encoding classification.
- Preview the document before and after applying font mappings to verify the results.
- Export ready-to-use configuration files for AFP2PDF Plus.

AFP2PDF Plus Config UI runs as a standalone desktop application. You can use it independently to prepare configuration files, then deploy those files to your AFP2PDF Plus environment.

Font support files

AFP2PDF Plus Config UI creates and modifies these font support files:

Font Files and Subdirectories

File	File Name	Subdirectory	Description
Alias file	`alias.fnt`	`\font`	Maps the font type families to PDF font name and optionally specifies the font metric file to use during the transform.
Character set definition file	`csdef.fnt`	`\font`	Defines AFP character set attributes, such as point size. It also maps the font character set to the font global identifier.
FND name defaults file	`csdef.def`	`\font`	Provides default processing for FND names.
Coded font files	`icoded.fnt`, `coded.fnt`	`\font`	Specify which AFP code page and AFP font character set make up the coded font.

File	File Name	Subdirectory	Description
Code page definition file	`cpdef.fnt`	`\font`	Maps each AFP code page to indicate which code page map file to use.
Font mapping file	`afpfont.fnt`	`\font`	Defines the fonts where the raster character images for the AFP font files are extracted and placed as images in the output PDF.

Supported font types

You can map AFP fonts to these target font types:

Adobe Base14 fonts

Standard PDF fonts (Courier, Helvetica, Times) that do not require embedding. These fonts are available in all PDF viewers.

Default CJK fonts

Asian language fonts for Chinese, Japanese, and Korean text. These fonts are available when the appropriate language pack is installed in the PDF viewer.

Modified Base14 fonts

Fonts based on Base14 with different character metrics, such as AvantGarde, Bookman, and Helvetica-Narrow.

Sonoran fonts

Fonts that emulate IBM Sonoran fonts using Base14 fonts with custom metrics.

External Type 1 fonts

Adobe Type 1 fonts (.pfb files) with optional custom metrics (.afm or .pfm files). These fonts are embedded in the output PDF.

External TrueType/OpenType fonts

TrueType (.ttf), OpenType (.otf), or TrueType Collection (.ttc) fonts. These fonts are embedded in the output PDF.

User interface

The AFP2PDF Plus Config UI window contains file and font panels, mapping options, and a preview area.

Files panel

Lists the AFP files loaded in the current project.

Click a file name to select it. The Document AFP Fonts panel updates to show the fonts from the selected file, and the preview panel displays the document.

Document AFP fonts panel

Lists the fonts found in the selected AFP file. Fonts are organized into two categories, based on how they are referenced in the AFP file either as coded fonts or as a character set and code page pair. For the coded fonts case we have the coded fonts panel:

Coded fonts

Fonts referenced by coded font names (based on the IBM naming convention, they start with the letter X). These fonts require you to specify the character set and code page they represent.

For the character set and code page pair we have two panels.

Character sets

Fonts specified as character set. The character set page is already defined in the AFP file.

Code pages

Fonts specified as code page. The character code page is already defined in the AFP file.

If the AFP file or the resource folder contains the font resource, each font entry shows this information:

- Font name
- Current mapped font (for example, "Verdana")
- Font size in pixels
- Font style (Regular, Bold, Italic)
-

Note

– If the font resource is missing, the information specified is not displayed.

Mapping options panel

Displays configuration options for the selected font. Use these options to configure the fonts you want to use in the output PDF file.

The panel header shows the selected font name, current mapping, and font category.

For details on each field, see Mapping options, p. .

Preview panel

Displays a preview of the AFP document with font mappings applied. Text using the currently selected font is highlighted.

The preview toolbar provides the following controls:

Zoom in / Zoom out

Increases or decreases the zoom level.

Zoom percentage

Shows the current zoom level. Type a value or select from the list.

Fit width / Fit page

Adjusts zoom to fit the page width or the entire page in the preview area.

Previous page / Next page

Navigates between pages in the document.

Page number

Shows the current page number and total page count. Type a page number to navigate directly.

Preview

Enables or disables the preview of changes.

Help button

The help button (?) in the title bar opens the online help system.

Menu bar

The AFP2PDF Plus Config UI menus provide access to project, file, and help functions.

File menu

New

Creates a new font mapping project. Clears all current settings and starts with an empty project.

Open

Opens an existing project file. Project files store your AFP files, font mappings, and configuration settings.

Save

Saves the current project. If the project has not been saved before, prompts for a file name and location.

Close

Closes the current project. Prompts to save if there are unsaved changes.

Project menu

Import

Imports existing font configuration files from a folder. Loads mappings from `icoded.fnt`, `csdef.fnt`, `cpdef.fnt`, and `alias.fnt` files.

Add AFP

Adds an AFP file to the project. The tool reads fonts from the file and displays them in the Document AFP Fonts panel.

Export

Exports font configuration files to a folder. Creates the configuration files used by AFP2PDF Plus for font mapping.

Project settings

Opens the **Project settings** dialog to configure the project name, project destination path, and paths to Type 1 fonts, TrueType fonts, and AFP resource files.

Help menu

Help

Opens the help system in a web browser.

About

Displays version information and copyright details for AFP2PDF Plus Config UI.

Limitations

AFP2PDF Plus Config UI is still under development. Some planned features are not yet implemented. Here is a list of current limitations:

- If the font resources for an AFP font are not available, not included in the AFP file, not provided in an external resource group file, and not found in a configured resource folder, the preview does not display with the default mapping and does not match the appearance of the printed output.
- The current version of AFP2PDF Plus Config UI does not fully import existing customer configuration files.
- You cannot create a mapping for an entire DBCS raster font. A DBCS raster font is created from several SBCS raster fonts. You can map only the individual SBCS fonts that it contains.
- Mapping to TrueType fonts, OpenType fonts, and fonts in TrueType collections is not yet supported.
- Custom metrics mappings are not yet supported for Type 1 fonts or for Base 14 fonts.

Requirements

To run this program, your computer must meet the following requirements. Before setup, check that all the requirements are met.

These are the software requirements for AFP2PDF Plus Config UI:

- Operating systems:
  - Microsoft Windows 10 Pro, Enterprise
  - Microsoft Windows 11 Pro
- 64 bit version of Java Development Kit (JDK) 17 or later. You must install the JDK, not the Java Runtime Environment (JRE).

Note

- Running AFP2PDF Plus Config UI requires IBM Semeru Runtimes 17 or later, or a Java distribution from an alternative provider. Legacy IBM SDK, Java Technology Edition is not supported.

Getting started

Use these topics to learn about the AFP2PDF Plus Config UI interface and complete your first font mapping project.

To begin using AFP2PDF Plus Config UI:

1. Create a new project and add your AFP files. See Creating a project, p. 13 and Adding AFP files, p. 14.
2. If you have existing font configuration files, import them. See Importing existing configuration files, p. 14.
3. Select fonts in the Document AFP Fonts panel and configure their mappings. See Mapping coded fonts, p. 17 and Mapping character set and code page fonts, p. 18.
4. Export the configuration files to use with AFP2PDF Plus. See Exporting configuration files, p. 15.

2. Creating a font mapping project

- **Adding AFP files**
- **Importing existing configuration files**
- **Exporting configuration files**
- **Setting font locations**

Create a new project to start defining font mappings for your AFP files.

A project stores your AFP files, font mappings, and configuration settings. You can save and reopen projects to continue working on font mappings.

To create a project:

1. Select **File** → **New**.
   The New font mapping project dialog opens.
2. In the **Project name** field, type a name for the project.
3. In the **Project destination** field, specify the folder where you want to save the project file.

   Click the browse button to select a folder.
4. Select whether to use **Embedded fonts** or **Mapped fonts**.

   Embedded fonts

   Fonts are processed and embedded in the resulting PDF files. By using this option, the output PDF files will look more like the input AFP files.

   Mapped fonts

   Fonts are mapped by default. This option ensures smaller output PDF files size. However, the AFP files that contain fonts that do not have a font mapping will not be displayed correctly.
5. **Optional:** Configure font and resource paths.

   Select a path type from the list on the left:

   Resource path

   Path to AFP resource files

   Type 1 font path

   Folder path to Adobe Type 1 font files (.pfb)

   TrueType font path

   Path to TrueType and OpenType font files (.ttf, .otf, .ttc)

   1. Select the path type you want to configure.
   2. In the **Select path** field, specify the folder path or click the browse button to select a folder.
   3. Click **+ Add** to add another path.
   4. Repeat for each path type you want to configure.
6. Click **OK**.
   The project is created. The project name appears in the title bar.

The project is ready. You can now add AFP files and configure font mappings.

To reopen a saved project, click **Open** and select the project file.

Adding AFP files

Add an AFP file to your project to view the fonts it contains and configure font mappings.

- Create or open a project. See Creating a font mapping project, p. 13.
- If the AFP file references external resources, configure the resource paths in **Set font locations** before adding the file.

When you add an AFP file, the tool reads the font information from the file and displays the fonts in the Document AFP Fonts panel. Fonts are categorized as either coded fonts or character set and code page fonts, depending on how they are specified in the AFP file.

To add an AFP file:

1. Select **Project** → **Add AFP**.
   The **Open** dialog appears.
2. Browse and select the AFP file you want to add.
3. Click **Open**.
   The file appears in the **FILES** panel. The **DOCUMENT AFP FONTS** panel lists the fonts found in the file:

   Coded fonts

   Based on the IBM font naming convention, coded font names start with the letter X, for example X0GT12.

   Character sets

   The character sets names usually start with letter C followed by either a digit for raster fonts or the letter Z for outline fonts.

   Code pages

   The code pages names start with T1.

   The preview panel displays the first page of the document.

The AFP file is added to the project. You can now select fonts in the **DOCUMENT AFP FONTS** panel and configure their mappings.

Note

- If you move or rename an AFP file after adding it to a project, AFP2PDF Plus Config UI cannot locate the file the next time you open the project. To locate the file, right-click the file in the **FILES** panel and select **Relink**, then browse to and select the file at its new location. Your existing font mappings for that file are preserved.

Importing existing configuration files

Import existing font configuration files to view or modify font mappings.

You can import existing font configuration files from an AFP2PDF Plus installation, so you can view current mappings, modify them, and export updated configuration files.

To import existing configuration files:

1. Select **Project** → **Import**.

The browse folder dialog appears.

2. Browse and select the folder containing the configuration files.

   The folder should contain one or more of these files:

   `alias.fnt`

   External font aliases.

   `a2pxopts.cfg`

   Specifies the settings that control the AFP2PDF Plus Transform. Lists all available options as commented-out entries. Clear the comments to use and add any required parameters.

   `coded.fnt`

   Contains user-defined coded fonts. This file is optional. If it exists, AFP2PDF Plus Transform searches it first for the coded fonts used in an AFP file.

   `icoded.fnt`

   Coded font definitions.

   `cpdef.fnt`

   Code page definitions.

   `csdef.fnt`

   Character set definitions.

3. Click **OK**.
   The tool reads the configuration files and loads the font mappings into the project.

The font mappings from the configuration files are loaded into the project. You can now view and modify the mappings. Add an AFP file to preview the imported mappings. See Adding AFP files, p. 14.

After modifying the mappings, export the updated configuration files. See Exporting configuration files, p. 15.

Exporting configuration files

Export the font configuration files from your project for use with AFP2PDF Plus.

Make sure you have configured at least one font mapping in your project.

When you export, the tool creates the configuration files that AFP2PDF Plus uses for font mapping. Copy these files to your AFP2PDF Plus installation or specify this folder as the font configuration path.

To export configuration files:

1. Select **Project** → **Export**.
   The browse folder dialog appears.
2. Browse and select the destination folder for the configuration files.

   You can select an existing AFP2PDF Plus font configuration folder or create a new folder.
3. Click **OK**.
   The tool exports these files to the selected folder:

   - `afpfont.fnt`

- `alias.fnt`
- `a2pxopts.cfg`
- `csdef.fnt`
- `coded.fnt`
- `cpdef.fnt`
- `icoded.fnt`

The configuration files are exported. You can now use these files with AFP2PDF Plus.

To use the exported configuration with AFP2PDF Plus, either:

- Copy the files to the AFP2PDF Plus font configuration folder, or
- Configure AFP2PDF Plus to use the export folder as the font configuration path

Setting font locations

Configure the paths to external font folders and AFP resource files.

Before using external Type 1 or TrueType fonts, you must specify the folders where these fonts are located. You can also configure paths to AFP resource files if your AFP documents reference external resources.

To set the font locations:

1. Select **Project** → **Project settings**.
2. In the **Resource path** field, specify a file that contains AFP resources.

   A resource group file is a single file containing multiple AFP resources.
3. In the **AFP font** field, specify the path to your AFP fonts.
4. In the **Type 1 font path** field, specify the path to your Adobe Type 1 fonts.

   This folder should contain `.pfb` files and their associated metrics files (`.afm` or `.pfm`).
5. In the **TrueType font path** field, specify the path to your TrueType and OpenType fonts.

   This folder should contain `.ttf`, `.otf`, or `.ttc` files.
6. Click **SAVE**.
   The font locations are saved to the project.

The font locations are configured. When you select an external font category in the Mapping Options panel, the tool displays fonts from the configured folders.

The font location paths are included in the exported `a2pxopts.cfg` file. Make sure the paths are accessible from the system where AFP2PDF Plus runs, or update the paths after deployment.

3. Creating font mappings

- **Mapping fonts specified as coded fonts**
- **Mapping fonts specified as character set and code page pairs**
- **Selecting Base14 fonts**
- **Selecting CJK fonts**
- **Selecting Modified Base14 fonts**
- **Selecting Sonoran fonts**
- **Selecting external Type 1 fonts**
- **Selecting external TrueType fonts**

Mapping fonts specified as coded fonts

Configure a font mapping for a coded font by specifying its character set and code page components.

Make sure you have added an AFP file to your project.

Coded fonts are listed under the **Coded fonts** section in the **DOCUMENT AFP FONTS** panel. Each entry shows the font name and size in points. To create a mapping, you specify the character set and code page that the coded font represents, then select a target font for PDF output.

1. Select **Project** → **Add AFP** to add the AFP file that contains the font you want to map.
2. In the **DOCUMENT AFP FONTS** panel, under **Coded fonts**, select the font you want to map. The Mapping Options panel displays the font name, size, and "Coded fonts" label in the header. The preview panel highlights text that uses this font.
3. Make sure **Enable mapping** is selected.

   When this option is cleared, the font mapping is disabled and the font uses default conversion behavior.
4. In the **Character set** list, select or type the character set name for this coded font.

   Character set names typically start with C0, C1, or CZ (for example, C0S0LB12, C0GT12).
5. In the **Code page** list, select or type the code page name.

   Code page names typically start with T1 (for example, T1V10037, T1V10281).
6. In the **Encoding type** list, select the character encoding size.
   - **Single byte**. For Western languages and standard code pages
   - **Double byte**. For Asian languages (Chinese, Japanese, Korean)
7. In the **Encoding classification** list, select the encoding standard.

   For single byte encoding, select ANSI, Symbol, KSC, or KYUJIS. For double byte encoding, select the appropriate Asian encoding: SHINJIS, KYUJIS, KSC, BIG5, GB, PC_MIXED, or IDENTITY.
8. **Optional:** In the **Code page ID** list, select a specific code page identifier if needed.

   Common values include 37 (EBCDIC US/Canada), 500 (EBCDIC International), 1252 (Windows Latin 1), and 850 (DOS Latin 1).
9. **Optional:** In the **Font size** field, adjust the target font size if needed. The value is expressed in points.

   Increase or decrease this value to scale the target font relative to the original AFP font size.
10. In the **Target font type** list, select the category of font to use for the mapping.

- **Base 14**. Standard PDF fonts (Courier, Helvetica, Times New Roman)
- **CJK**.Asian language fonts
- **Modified Base 14**. Fonts with different metrics (AvantGarde, Bookman, etc.)
- **Sonoran**. IBM Sonoran font emulation
- **External Type 1**. Adobe Type 1 fonts from your font folder
- **External TrueType**. TrueType/OpenType fonts from your font folder

11. In the **Target font** list, select the specific font to use.

    The available fonts depend on the target font type you selected. For Base 14, options include Courier, Helvetica, and Times New Roman.

12. **Optional:** Select **Bold** or **Italic** to apply font styles.

    These options are not available for Sonoran fonts.

The coded font mapping is configured. The preview panel updates to show the document with the new font mapping applied. The mapping is stored in the configuration files when you export the project.

To discard your changes and restore the original values, click **Reset to Default**.

Mapping fonts specified as character set and code page pairs

Configure font mappings for fonts specified as character set and code page pairs.

Make sure you have added an AFP file to your project. See Adding AFP files, p. 14.

The Document AFP Fonts panel shows separate **Character sets** and **Code pages** sections for fonts that are defined with explicit character set and code page references. Unlike coded fonts, these fonts do not require you to specify the character set and code page pairing—that information is already defined in the AFP file.

1. Select **Project** → **Add AFP** to add the AFP file that contains the character set and code page you want to map.
2. Expand the **DOCUMENT AFP FONTS** panel.
   The **Mapping Options** panel displays the configuration options for the selected font. The preview panel highlights text that uses this font.
3. To create a mapping for the character set:
   1. Make sure **Enable mapping** is selected.

      When this option is cleared, the font mapping is disabled and the font uses default conversion behavior.

   2. In the **Font size** field, adjust the font size if needed.

      Increase or decrease this value to scale the target font relative to the original AFP font size.

   3. In the **Target font type** list, select the category of font to use for the mapping.
   4. In the **Target font** list, select the specific font to use.

      The available fonts depend on the target font type you selected.

   5. Select **Bold** or **Italic** to apply font styles.

      These options are not available for Sonoran and Modified Base 14 fonts.

4. To create a mapping for the code page:
    1. Make sure **Enable mapping** is selected.

       When this option is cleared, the font mapping is disabled and the font uses default conversion behavior.
    2. In the **Encoding type** list, select the character encoding size.
    3. In the **Encoding classification** list, select the encoding standard.
    4. In the **Code page ID** list, select a specific code page identifier if needed.

The font mapping is configured. The mapping is stored in the `csdef.fnt` and `cpdef.fnt` files when you export the configuration.

Selecting Base14 fonts

Map an AFP font to a Base14 font for maximum compatibility without font embedding.

Base14 fonts are standard PDF fonts available in all PDF viewers without embedding. They include Courier, Helvetica, and Times families. Using Base14 fonts results in smaller PDF files because the fonts do not need to be embedded.

1. Go to **Target font type** list and select **Base14 fonts** from the list.
   The font selection options appear.
2. Go to **Target font** and select the target font from the list:
    - **Courier** - Monospaced font
    - **Helvetica** - Sans-serif font
    - **TimesNewRoman** - Serif font
3. **Optional:** Select **Bold** to apply bold style.
4. **Optional:** Select **Italic** to apply italic style.
   The preview panel updates to show the document with the Base14 font applied.

Base14 font combinations

The following combinations are available:

Font	Regular	Bold	Italic	Bold Italic
Courier	Courier	Courier-Bold	Courier-Oblique	Courier-BoldOblique
Helvetica	Helvetica	Helvetica-Bold	Helvetica-Oblique	Helvetica-BoldOblique
Times	Times-Roman	Times-Bold	Times-Italic	Times-BoldItalic

Selecting CJK fonts

Map an AFP font to a default CJK font for Asian language text.

Make sure the encoding type is set to **DBCS** and the encoding classification matches your target language.

Default CJK (Chinese, Japanese, Korean) fonts are standard fonts available in PDF viewers when the appropriate language pack is installed. Use these fonts for documents containing Asian language text.

1. Go to **Target font type** and select **CJK** from the list.
   The font selection options appear.
2. Go to **Target font** list and select the target font from the list:
   - Chinese Simplified
   - Chinese Traditional (sans serif)
   - Chinese Traditional (serif)
   - Japanese Gothic (sans serif)
   - Japanese Mincho (serif)
   - Korean Gothic (sans serif)
   - Korean MyeongoJo (serif)
3. **Optional:** Select **Bold** to apply bold style.
4. **Optional:** Select **Italic** to apply italic style.

The preview panel updates to show the document with the CJK font applied.

Selecting Modified Base14 fonts

Map an AFP font to a Modified Base14 font with different character metrics.

Modified Base14 fonts are based on the standard Base14 fonts but have different character metrics. By changing the metrics of the Adobe Base 14 fonts, you can create additional fonts without embedding. The result is a smaller size PDF. Some of these fonts are: AvantGarde, Bookman, and Helvetica-Narrow.

1. Go to **Target font type** and select **Modified Base14 fonts** from the list.
   The font selection options appear.
2. Go to **Target font** and select the target font from the list:
   - **AvantGarde-Book**
   - **Bookman-Light**
   - **Helvetica-Narrow**
   - **NewCenturySchlbk**
   - **Palatino-Roman**
   - **Helvetica-Condensed**

   Note

   - There is no separate option to specify weight of the font or if the font is italic. Instead, some of the fonts from the Modified Base 14 category have suffixes that specify these options, such as Bold, Demi (half bold), Italic, Oblique (similar to Italic), Light (thinner than the regular font).

The preview panel updates to show the document with the Modified Base14 font applied.

Selecting Sonoran fonts

Map an AFP font to a Sonoran font to emulate IBM Sonoran fonts.

Sonoran fonts emulate the IBM Sonoran font family using Base14 fonts with custom metrics. These fonts provide compatibility with documents originally created using IBM Sonoran fonts.

1. Go to **Target font type** and select **Sonoran** from the list.
   The font selection options appear.
2. Go to **Target font** and select the target Sonoran font from the list.

   The list contains fonts that emulate specific IBM Sonoran fonts. Select the font that best matches your original AFP font characteristics.

The preview panel updates to show the document with the Sonoran font applied.

Note

Bold and Italic options are not available for Sonoran fonts. The style is built into the font definition.

Selecting external Type 1 fonts

Map an AFP font to an Adobe Type 1 font for precise font matching.

Make sure you have configured the Type 1 font folder location. See Setting font locations, p. 16.

Adobe Type 1 fonts provide precise font matching when you need to preserve the exact appearance of the original document. Type 1 fonts are embedded in the output PDF file.

1. Go to **Target font type** and select **External Type 1** from the list.
   The font selection options appear.
2. Go to **Type1 font** and select or type the font name.

   The list displays Type 1 fonts found in your configured font folder. Type the font name without the file extension (for example, type `MyFont` for `MyFont.pfb`).

The preview panel updates to show the document with the Type 1 font applied.

The font mapping is configured. The font file name is stored in the `alias.fnt` file when you export the configuration.

Selecting external TrueType fonts

Map an AFP font to a TrueType, OpenType, or TrueType Collection font.

Make sure you have configured the TrueType font folder location. See Setting font locations, p. 16.

TrueType and OpenType fonts provide high-quality font rendering and are widely available. These fonts are embedded in the output PDF file.

1. Go to **Target font type** and select **External TrueType font** from the list.
   The font selection options appear.
2. Go to **TrueType font** and select or type the font name.

   The list displays fonts found in your configured font folder. Specify the font name with the file extension:

- For TrueType fonts: `arial.ttf`
- For OpenType fonts: `arial.otf`
- For fonts in a TrueType Collection: `FontName@collection.ttc`

The preview panel updates to show the document with the TrueType font applied.

The font mapping is configured. The font file name is stored in the `alias.fnt` file when you export the configuration.

TrueType Collection example

To use a font from a TrueType Collection file, specify the font name followed by @ and the collection file name. For example, to use the Arial font from `fonts.ttc`, type:

```
Arial@fonts.ttc
```

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