Amyuni Document Converter

Version 4.5 Professional

Quick Start Guide for Developers

Updated October, 2010

Contents

Legal Information

Important Note for developers

The activation code that is provided to you by Amyuni should be kept confidential and not be revealed to end-users, even in this case where the developer's products are sub-licensed to other developers.

Acknowledgments

This software uses the deflate algorithm developed by Jean-loup Gailly (jloup@gzip.org) and Mark Adler (madler@alumni.caltech.edu). This software is also based in part on the work of the Independent JPEG Group and on parts of the FreeType library.

New In Version 4.5

- WHQL Testing and Certification for 32 and 64-bit Windows 2008 and Windows 7

- 64-bit SDK improves performance and compatibility with 64-bit applications

- Preview window integrated within the SDK does not require launching external applications

- Improved performance and reliability for post-processing of PDF documents such as Appending, Merging, Watermarking or Printing

- Improved conversion of EPS objects embedded into Office documents using an updated Postscript 2 interpreter

- Improved marked content generation for customizing the resulting PDF

- Direct conversion of TIFF to PDF through the SDK. OCR module can be purchased separately as an add-on to PDF Converter

- OEM licensees are now offered the ability to customize the user-interface and add their own configuration tabs to the printer

Introduction

This manual is a supplement to the Amyuni Document Converter series of products. These include the PDF, HTML, RTF, Excel, TIFF, and JPeg Converter products or any combination of these formats. Each of these products ships with a user's manual that describes the overall operation of the product. The developer should be familiar with the operation of the specific product that he or she is using before reading the developer's manual.

All Amyuni Document Converter products share the same interface DLL named the "Common Driver Interface". This interface resides in a DLL named CDINTF450.DLL that should be in the system or system32 directory.

CDINTF450 provides the developer with three calling conventions. Depending on their development platform and programming habits, developers might chose one these three interfaces:

- A standard DLL interface.
- An ActiveX interface.
- A .NET Managed Code Interface.

Using the Developer Version of the Document Converter Products

The developer version of the Amyuni Document Converter products is a special version of these products that can be distributed with the developers' applications without paying any additional royalties to Amyuni Technologies.

By special version, we mean a version that:

- Does not need to be pre-installed on the client system (although recommended).

- Does not have any properties dialog box.

- Does not have any "File Save As" dialog box.

All printer configurations, file destinations and options settings should be done programmatically by the main application.

Using the Developer Version of the Amyuni Document Converter

The following is a step-by-step procedure for using the developer version of the Amyuni Converter.

1. Copy all distributable files to the application's main directory

    The application's main directory is usually where the executable file is located. The list of distributable files is as follows:

Operating Systems	Dynamic Link Libraries (DLLs)
Common to all versions	install.exe, acfpdf.txt, amyuni.inf, atpdf450.cat
Windows 32-bits	cdintf.dll, acfpdfu.dll, acfpdfui.dll
Windows 64-bits, AMD or Intel 64 based	cdintf64.dll, acfpdfuamd64.dll, acfpdfuiamd64.dll

Note about Legacy Platforms

Windows 98/Me, NT4 and IA64 drivers have not been updated since version 2.5. These drivers are not included with the products but can be downloaded separately from:
http://www.amyuni.com/downloads/legacy_drivers.zip

2. Initialize the Document Converter printer on the end-user's system.

    Method 1 (Recommended)

    By launching Install.exe during the installation of the main application. Install.exe should be launched followed by a printer name specific to the developer's company or application:

Command Line Parameters	Description
-s	(Optional) Runs in silent mode
Printer Name	Name of printer as it will appear on the list of system printers
-N	License Name
-C	Activation Code
-O	Port name – Install printer attached to a specific port
-I	Do not generate a log file

All command line parameters should be surrounded by double quotes when they contain spaces.

Sample
Install -s "My Company Printer" -n "Evaluation Developer License" -c "07ABCDA0A12301230123".

Method 2

By calling PDFDriverInit at the initialisation of the application. The documentation for PDFDriverInit provides details about how to use this function to initialize the printer and activate it.

3. (Optional) When using the DLL interface of CDIntf, copy CDIntf.dll or CDIntf64.dll to your application's folder. This will guarantee that your version of this DLL will not be overwritten by other developers installing a different version.

4. (Optional) Register the CDIntf ActiveX. When using the ActiveX interface, the ActiveX control should be **registered in the system by calling RegSvr32 from your application's directory: REGSVR32 CDINTF.DLL or REGSVR32 CDINTF64.DLL.**

   CDIntf can be used through the DLL interface without the need for registering or creating ActiveXs.

Important Note for Version 4.5

For 32-bit applications running on a 64-bit OS, the application is responsible of registering the 32-bit ActiveX control using the 32-bit version of REGSVR32 or through the call to the DllRegisterServer API. This is because the 64-bit printer driver is not capable of registering 32-bit ActiveX controls and will only register the 64-bit CDIntf64.dll.

5. Initialize the printer at start-up of your application by callingDriverInit followed by the printer name.

6. Export to the format of your choice by printing from your application. When the user chooses the export function of your application to generate a PDF, HTML, RTF, JPEG, TIFF or Excel file, you need to set up the output file name using SetDefaultFileName, the file generation options using **SetFileNameOptions(NoPrompt + UseFileName + …) and print to the "My Company Printer" as you** would do when printing to any other printer.

The developer can be in one of three situations:

   o The developer licensed a product that generates only one format, e.g. PDF only or RTF only. In this case, the printer will generate the right format without any specific option to set.

   o The developer licensed a product that generates multiple formats including PDF, e.g. PDF and RTF. In this case, to export to either RTF, HTML, JPEG, TIFF or Excel, the corresponding option should be set in the call to SetFileNameOptions. The PDF file will be generated in all cases and should be deleted by the developer if not needed. There is no method to have the Converter generate an RTF/HTML/JPEG/TIFF/Excel file only without generating a PDF.

   o The developer licensed a product that generates multiple formats excluding PDF, e.g. RTF and HTML. In this case, to export to either RTF, HTML, the corresponding option should be set in the call to SetFileNameOptions. A temporary file will be generated in these cases and will be deleted by the printer when the print job is finished.

7. Restore the printer to its previous setting. When printing is over, the developer needs to call **SetFileNameOptions (0) to prevent other applications or users from overwriting the file that has just** been generated from the application.

8. Uninitialize the printer before exiting. Before exiting the application, the DriverEnd function should be called. This function will remove the printer if installed usingPDFDriverInit, otherwise it will simply disconnect from the printer.

Important Note for developers

To avoid confusion with other applications and with the single-user versions of the Document Converter products, developers are required to use a printer name specific to their application or company. Using the default printer names of "Amyuni Document Converter" or "Amyuni PDF Converter" is not allowed.The activation code that is provided to you by Amyuni should be kept confidential and not be revealed to end-users, even in this case where the developer's products are sub-licensed to other developers.

DLL Interface

Before using the DLL interface of CDINTF450, the C or C++ developer might need to download the header and library files from:

http://www.amyuni.com/downloads/cdintf450.zip

The zip file also contains the latest version of CDIntf450.DLL.

The library file is compatible with Visual Studio 2005 and higher. When using other compilers such as Borland C++, the developer needs to import the library from the DLL instead of using the library from our "downloads" section.

Visual Basic users can import the included CDIntf450.txt file to get the entire constant and function declarations of CDIntf450. VB users are encouraged however to use the ActiveX interface as it remains more versatile and easier to use from within VB.

ActiveX Interface

Before using the Common Driver Interface as an ActiveX component from any ActiveX aware application, the developer should register the DLL in the system by calling RegSvr32 from the location where this DLL is installed:
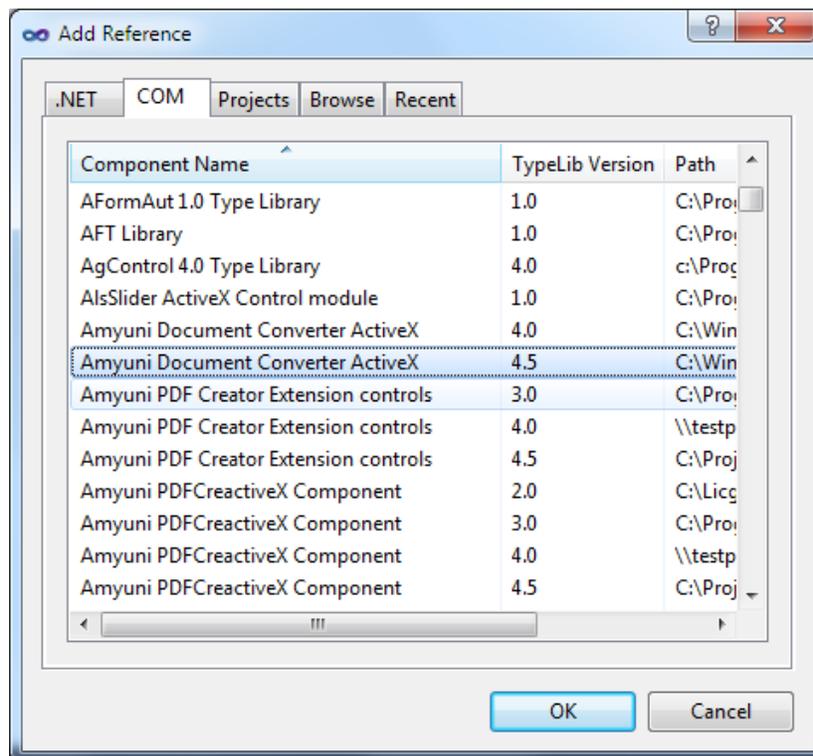
Regsvr32 CDINTF450.DLL

This is done automatically by the default installation procedure of any of the document converter product.
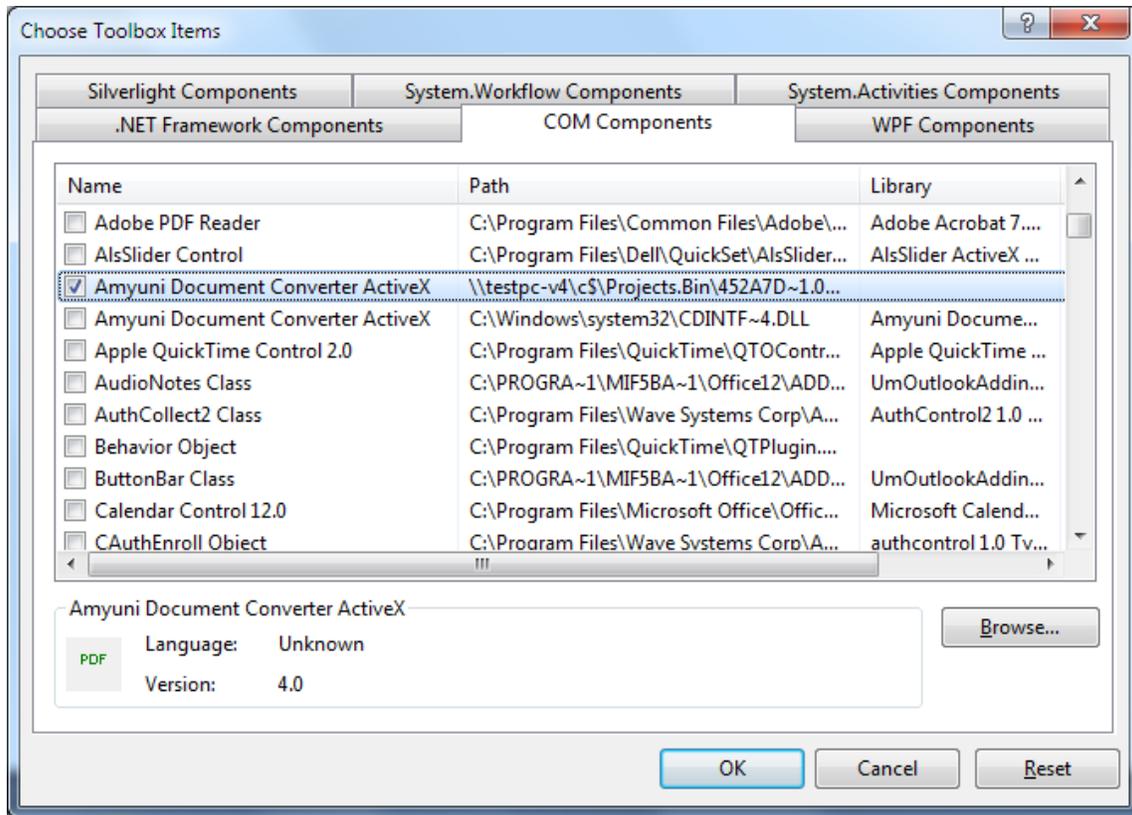
The CDIntf control starting with version 4.5 has been renamed to CDIntfEx.CDIntfEx.4.5 to avoid confusion with the previous versions. The control can either be created dynamically through code or placed on a form like any other VB control. When placed on a form, the control remains invisible at run time.

To dynamically create the CDIntfEx object, the CDINTF450 DLL should first be imported into the project. The procedure is quite similar in all programming environments.
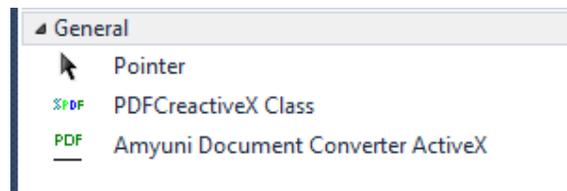
Here is what it would look like in VB:

To place the CDIntfEx control on a form, it should be imported into the project using the Project's Components menu:
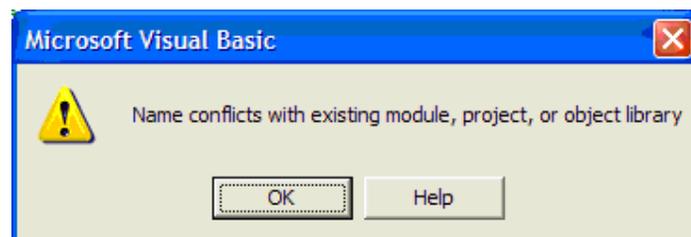

It should then appear in the components toolbar as follows:

 Note to VB6 Users

VB6 users that had used previous versions of CDIntf or are trying to switch from dynamically created object to the visual component placed on a form, might receive the following error message from VB:

If this happens, the control should be manually removed from the project by following these steps:

1. *Close the VB project*
2. *Open the .VBP file using any text editor*

3. *Locate and remove the line:*

   Reference=*\G{4856F146-7516-11D3-BBE5-D53DCBD65107}#1.0#0#
   c:\WINDOWS\System32\cdintf.dll#CDIntf.

4. *Reload the project in VB and import the control.*

Note on Function Calls

ActiveX Methods

On Success ActiveX methods will have a return relevant to their functionality. On failure, most ActiveX calls will raise an exception. The caller should properly catch any exceptions generated from a call to the ActiveX.

If the library was not initialized properly, an exception will be thrown. To get extended error information, call **GetLastErrorMsg.**

DLL Methods

On Failure, most DLL functions will return zero (NULL). To get extended error information, call GetLastErrorMsg.

On success, DLL methods that return a HANDLE will return a handle for the virtual printer that will be used as an argument for other method calls. The hPrinter handle returned by the functions is not to be confused with the **hPrinter handle returned by the Windows API OpenPrinter and CreatePrinter functions.**

Links to Support and Documentation:

If you have any questions or problems with our products, the following resources are available to you through our web site:

Online Documentation:
http://www.amyuni.com/WebHelp/Developer_Documentation.htm#index.htm

Frequently Asked Questions:
http://www.amyuni.com/forum/viewforum.php?f=18

Technical Notes:
http://www.amyuni.com/en/resources/technicalnotes/

User forum:
http://www.amyuni.com/forum/index.php

Posting questions to our technical support staff:
http://www.amyuni.com/en/support/getsupport/

We also provide some additional tools that can be downloaded free of charge and used with the PDF Converter product. These tools are available at:
http://www.amyuni.com/en/resources/freetools/