

Foxit PDF SDK for Python API 11.1 Upgrade Warnings

This document contains a list of items that developers looking to upgrade to Foxit PDF SDK for Python API 11.1 from previous version should pay attention to. Changes to code may be required in order for your projects to compile using the new version.

Upgrading to version 11.1 from version 11.0

If you are upgrading from version 11.0 to version 11.1, please take note of the changes that occurred between version 11.0 and version 11.1.

- In **ActionCallback** class, add some new callback functions as below:

```
def NotifyBeginDoJob(document, event_type)
def NotifyAfterDataChange(document, modify_item_info)
def NotifyEndDoJob(document, event_type)
def InitModifyItem(document, item_type, page_index, dict_name)
def ResetModifyItem(document)
def GetVisiblePageCount(document)
def GetVisiblePage(document, index)
```

- In **DocProviderCallback** class, add a new callback function as below:

```
def NotifyWidgetChangeInfo (doc, change_info)
```

- In **OCRCallback**, add a new callback function as below:

```
def IsImageIgnored(image_object)
```

- Some APIs have been changed in version 11.1. The following table lists the APIs mapping between version 11.0 and 11.1.

Class	SDK 11.0	SDK 11.1
ActionCallback	def GetPageWindowRect()	def GetPageWindowRect(document , page_index)
IconProviderCallback	def GetIcon(annot_type, icon_name, color)	def GetIcon(annot_type, icon_name, color, annot_dict)

Class	SDK 11.0	SDK 11.1
PDF2WordSettingData	def PDF2WordSettingData(enable_retain_page_layout, enable_generate_headers_and_footers, enable_generate_footnotes_and_endnotes, enable_generate_page_rendered_break)	def PDF2WordSettingData(enable_retain_page_layout, enable_generate_headers_and_footers, enable_generate_footnotes_and_endnotes, enable_generate_page_rendered_break, max_blank_paragraphs_per_page_bottom)
	def Set(enable_retain_page_layout, enable_generate_headers_and_footers, enable_generate_footnotes_and_endnotes, enable_generate_page_rendered_break)	def Set(enable_retain_page_layout, enable_generate_headers_and_footers, enable_generate_footnotes_and_endnotes, enable_generate_page_rendered_break, max_blank_paragraphs_per_page_bottom)
PDF2ExcelSettingData	def PDF2ExcelSettingData(decimal_symbol, thousands_separator, workbook_settings)	def PDF2ExcelSettingData(decimal_symbol, thousands_separator, workbook_settings, enable_aggressive_table_repair, include_watermarks)
	def Set(decimal_symbol, thousands_separator, workbook_settings)	def Set(decimal_symbol, thousands_separator, workbook_settings, enable_aggressive_table_repair, include_watermarks)
PDF2PowerPointSettingData	def PDF2PowerPointSettingData(enable_aggressively_split_sections)	def PDF2PowerPointSettingData(enable_aggressively_split_sections, enable_adapt_to_largest_page)
	def Set(enable_aggressively_split_sections)	def Set(enable_aggressively_split_sections, enable_adapt_to_largest_page)
PDF2OfficeSettingData	def PDF2OfficeSettingData(metrics_data_folder_path, enable_ml_recognition, page_range, include_pdf_comments, word_setting_data, power_point_setting_data, excel_setting_data, enable_trailing_space, include_images, timeout)	def PDF2OfficeSettingData(metrics_data_folder_path, enable_ml_recognition, page_range, include_pdf_comments, word_setting_data, power_point_setting_data, excel_setting_data, enable_trailing_space, include_images, timeout, enable_matching_system_fonts)
	def Set(metrics_data_folder_path, enable_ml_recognition, page_range, include_pdf_comments, word_setting_data, power_point_setting_data, excel_setting_data, enable_trailing_space, include_images, timeout)	def Set(metrics_data_folder_path, enable_ml_recognition, page_range, include_pdf_comments, word_setting_data, power_point_setting_data, excel_setting_data, enable_trailing_space, include_images, timeout, enable_matching_system_fonts)
Convert	def FromWord(src_word_file_path, src_file_password, saved_pdf_path, setting_data, engine)	def FromWord(src_word_file_path, src_file_password, saved_pdf_path, setting_data, engine)
	def FromExcel(src_excel_file_path, src_file_password, saved_pdf_path, setting_data)	def FromExcel(src_excel_file_path, src_file_password, saved_pdf_path, setting_data, engine)
	def FromPowerPoint(src_ppt_file_path, src_file_password, saved_pdf_path, setting_data)	def FromPowerPoint(src_ppt_file_path, src_file_password, saved_pdf_path, setting_data, engine)

Class	SDK 11.0	SDK 11.1
OCRConfig	def OCRConfig(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, is_sequentially_process)	def OCRConfig(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, is_sequentially_process, is_auto_overwrite_resolution, resolution_to_overwrite, confidence)
	def Set(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, is_sequentially_process)	def Set(is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, is_sequentially_process, is_auto_overwrite_resolution, resolution_to_overwrite, confidence)
OCR	def OCRPDFPage(pdf_page, is_editable)	def OCRPDFPage(pdf_page, is_editable, callback)
	def OCRPDFPage(pdf_page, is_editable, config)	def OCRPDFPage(pdf_page, is_editable, config, callback)
	def OCRPDFDocument(pdf_doc, is_editable)	def OCRPDFDocument(pdf_doc, is_editable, callback)
	def OCRPDFDocument(pdf_doc, is_editable, config)	def OCRPDFDocument(pdf_doc, is_editable, config, callback)
	def OCRPDFDocuments(settingdata_array)	def OCRPDFDocuments(settingdata_array, callback)
	def OCRConvertTo(format, src_pdf_path, password, saved_file_path, page_range, is_retain_flow_text)	def OCRConvertTo(format, src_pdf_path, password, saved_file_path, page_range, is_retain_flow_text, callback)
	def OCRConvertTo(format, src_pdf_path, password, saved_file_path, page_range, is_retain_flow_text, config)	def OCRConvertTo(format, src_pdf_path, password, saved_file_path, page_range, is_retain_flow_text, config, callback)

Upgrading to version 11.0 from version 10.1

If you are upgrading from version 10.1 to version 11.0, please take note of the changes that occurred between version 10.1 and version 11.0.

- For Foxit PDF SDK for Linux (x86 and x64), the minimum supported version of GCC compiler has been upgraded from gcc4.9.4 to gcc5.4.
- The multi-thread-safe API [Library.EnableThreadSafety\(is_enable_thread_safety\)](#) is being gradually deprecated. Foxit PDF SDK will further enhance support for document-level thread safety. This requires users to ensure that each document runs on only one thread.

Furthermore, given the particularities of XFA and JavaScript, Foxit PDF SDK has introduced the parameter [enable_js_xfa_threadsafety](#) in [Library.Initialize\(sn, key,](#)

[is_optimize_memory](#), [enable_js_xfa_threaddafety](#)), allowing users to enable document-level thread safety for XFA and JavaScript.

- In **TableGeneratorCallback** class, add a new callback function as below:

```
def GetNewPageBasicInfo (page_index, rest_table_height, table_width)
```

- Some APIs have been changed in version 11.0. The following table lists the APIs mapping between version 10.1 and 11.0.

Class	SDK 10.1	SDK 11.0
PDFDoc	def AddPagingSealSignature (page_range, width, height)	def AddPagingSealSignature (page_range, width, height, to_check_permission)
OCRConfig	def OCRConfig (is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode)	def OCRConfig (is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, is_sequentially_process)
	def Set (is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode)	def Set (is_detect_pictures, is_remove_noise, is_correct_skew, is_enable_text_extraction_mode, is_sequentially_process)
DocProviderCallback	def SetFocus (xfa_widget)	def SetFocus (xfa_widget, is_relayout)
Library	def Initialize (sn, key, is_optimize_memory)	def Initialize (sn, key, is_optimize_memory, enable_js_xfa_threaddafety)
HTML2PDFSettingData	def HTML2PDFSettingData (page_width, page_height, is_to_page_scale, page_margin, is_convert_link, rotate_degrees, is_generate_tag, page_mode, to_generate_bookmarks, scaling_mode, encoding_format, to_render_images, to_remove_underline_for_link, to_set_headerfooter, headerfooter_title, headerfooter_url, bookmark_root_name, to_resize_objects, to_print_background, to_optimize_tag_tree, media_style, to_load_active_content, to_disable_sandbox, to_use_blacklist)	def HTML2PDFSettingData (page_width, page_height, is_to_page_scale, page_margin, is_convert_link, rotate_degrees, is_generate_tag, page_mode, to_generate_bookmarks, scaling_mode, encoding_format, to_render_images, to_remove_underline_for_link, to_set_headerfooter, headerfooter_title, headerfooter_url, bookmark_root_name, to_resize_objects, to_print_background, to_optimize_tag_tree, media_style, to_load_active_content, to_disable_sandbox, to_use_blacklist, to_hide_header, to_hide_footer, to_deny_local_file_access)

Class	SDK 10.1	SDK 11.0
	def Set (page_width, page_height, is_to_page_scale, page_margin, is_convert_link, rotate_degrees, is_generate_tag, page_mode, to_generate_bookmarks, scaling_mode, encoding_format, to_render_images, to_remove_underline_for_link, to_set_headerfooter, headerfooter_title, headerfooter_url, bookmark_root_name, to_resize_objects, to_print_background, to_optimize_tag_tree, media_style, to_load_active_content, to_disable_sandbox, to_use_blacklist)	def Set (page_width, page_height, is_to_page_scale, page_margin, is_convert_link, rotate_degrees, is_generate_tag, page_mode, to_generate_bookmarks, scaling_mode, encoding_format, to_render_images, to_remove_underline_for_link, to_set_headerfooter, headerfooter_title, headerfooter_url, bookmark_root_name, to_resize_objects, to_print_background, to_optimize_tag_tree, media_style, to_load_active_content, to_disable_sandbox, to_use_blacklist, to_hide_header, to_hide_footer, to_deny_local_file_access)

Upgrading to version 10.1 from version 10.0

If you are upgrading from version 10.0 to version 10.1, please take note of the changes that occurred between version 10.0 and version 10.1.

- In **TiledWatermarkSettings** class:
 - add a new attribute called **flags**. By default, the tiled watermark is no longer positioned at the top. To retain the original behavior, where the watermark appears at the top, you need to set the attribute **flags** to **TiledWatermarkSettings.e_FlagOnTop**.

- the constructor function has added a new parameter as below:

SDK 10.0:

```
def TiledWatermarkSettings (row_space, col_space, rotation, opacity, scale)
```

SDK 10.1:

```
def TiledWatermarkSettings (row_space, col_space, rotation, opacity, scale, flags)
```

- the function **Set** has added a new parameter as below:

SDK 10.0:

```
def Set (row_space, col_space, rotation, opacity, scale)
```

SDK 10.1:

```
def Set (row_space, col_space, rotation, opacity, scale, flags)
```

- Before version 10.1, the `PostScriptDeviceSettingData` class was only applicable to the Linux platform. The `Renderer.Renderer(print_param, dest_file_path)` function was also only applicable to the Linux platform and only supported rendering to generate PostScript files.

From version 10.1, the `PostScriptDeviceSettingData` class has been renamed to `PrintDeviceSettingData`, and it is applicable to all platforms (Windows, Linux, and Mac). The `Renderer.Renderer(print_param, dest_file_path)` function is applicable to all platforms, supporting rendering to generate PostScript and PDF files. However, generating PostScript files is also only supported on the Linux platform.

- In `ImageObject` class, the `CloneBitmap(graphics_objects)` function has been deprecated and replaced with `CloneBitmap(page, graphics_objects)`.
- In `PDF2OfficeSettingData` class:
 1. the property "`metrics_data_folder_path`" has been deprecated. Instead, metrics data will be included in the dynamic library of Foxit PDF Conversion SDK.
 2. the parameter "`metrics_data_folder_path`" in the function of `Set` has been deprecated.

Upgrading to version 10.0 from version 9.2

If you are upgrading from version 9.2 to version 10.0, please take note of the changes that occurred between version 9.2 and version 10.0.

- For Compliance module, the compliance resource files have been updated, please contact Foxit support team or sales team to get the latest resource files package.

Only the latest engine can be used with version 10.0, using the older engine will cause errors. Version 9.2 is not compatible with the latest engine, it will throw errors in multi-threading situations.

- If you are using an older version of Windows (for example, Windows 7 and Windows Server 2008), you may need to visit this link <https://support.microsoft.com/en-us/help/4019990/update-for-the-d3dcompiler-47-dll-component-on-windows> to download and install the "D3DCOMPILER_47.dll". If you do not do this, you may encounter errors.
- In `PDF2WordSettingData` class:

1. add two new properties as below:

```
enable_generate_headers_and_footers;  
enable_generate_footnotes_and_endnotes;
```

2. the constructor function of **PDF2WordSettingData** has added two new parameters as below:

SDK 9.2:

```
def PDF2WordSettingData(enable_retain_page_layout)
```

SDK 10.0:

```
def PDF2WordSettingData(enable_retain_page_layout,  
enable_generate_headers_and_footers, enable_generate_footnotes_and_endnotes)
```

3. the function **Set** has added two new parameters as below:

SDK 9.2:

```
def Set(enable_retain_page_layout)
```

SDK 10.0:

```
def Set(enable_retain_page_layout, enable_generate_headers_and_footers,  
enable_generate_footnotes_and_endnotes)
```

- In **PDF2OfficeSettingData** class:

1. add two new properties as below:

```
power_point_setting_data;  
excel_setting_data;
```

2. the constructor function of **PDF2OfficeSettingData** has added two new parameters as below:

SDK 9.2:

```
def PDF2OfficeSettingData(metrics_data_folder_path, enable_ml_recognition, page_range,  
include_pdf_comments, word_setting_data)
```

SDK 10.0:

```
def PDF2OfficeSettingData(metrics_data_folder_path, enable_ml_recognition, page_range,  
include_pdf_comments, word_setting_data, power_point_setting_data,  
excel_setting_data)
```

3. the function **Set** has added two new parameters as below:

SDK 9.2:

```
def Set(metrics_data_folder_path, enable_ml_recognition, page_range,  
include_pdf_comments, word_setting_data)
```

SDK 10.0:

```
def Set(metrics_data_folder_path, enable_ml_recognition, page_range,  
include_pdf_comments, word_setting_data, power_point_setting_data,  
excel_setting_data)
```

Upgrading to version 9.2 from version 9.1

If you are upgrading from version 9.1 to version 9.2, please take note of the changes that occurred between version 9.1 and version 9.2.

- For OCR module, the OCR engine for Linux x64 has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.
- For PDF to Office module, the version of the PDF to Office resource files package naming Foxit PDF Conversion SDK (C++) should be 1.5 or higher.
- In **PDF2OfficeSettingData** class:
 1. add three new attributes as below:

```
page_range  
include_pdf_comments  
word_setting_data
```

2. the constructor function of **PDF2OfficeSettingData** has added three new parameters as below:

SDK 9.1:

```
def PDF2OfficeSettingData(metrics_data_folder_path, enable_ml_recognition)
```

SDK 9.2:

```
def PDF2OfficeSettingData(metrics_data_folder_path, enable_ml_recognition,  
page_range, include_pdf_comments, word_setting_data)
```

3. the function **Set** has added three new parameters as below:

SDK 9.1:


```
def Set(metrics_data_folder_path, enable_ml_recognition)
```

SDK 9.2:

```
def Set(metrics_data_folder_path, enable_ml_recognition, page_range,  
include_pdf_comments, word_setting_data)
```

- In **ActionCallback** class, add five new callback functions as below:

```
def EnablePageLoop(is_loop)  
def IsPageLoop()  
def SetDefaultPageTransitionMode(trans_type, trans_di)  
def IsCurrentDocOpenedInBrowser()  
def PostMessageToHtml(message)
```

Upgrading to version 9.1 from version 9.0

If you are upgrading from version 9.0 to version 9.1, please take note of the changes that occurred between version 9.0 and version 9.1.

- For Compliance module, the compliance resource files have been updated, please contact Foxit support team or sales team to get the latest resource files package.
- In **ActionCallback** class, add a new callback function as below:

```
def SoapRequest(request_params)
```

Upgrading to version 9.0 from version 8.4.2

If you are upgrading from version 8.4.2 to version 9.0, please take note of the changes that occurred between version 8.4.2 and version 9.0.

- For HTML to PDF module, the HTML to PDF engine has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.
- For Compliance module, the compliance resource files for **Linux** have been updated, please contact Foxit support team or sales team to get the latest resource files package.
- For OCR module, the OCR engine for Windows has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.
- The version of clang used for building and compiling the Foxit PDF SDK for Mac (x64) has been upgraded from 9.1.0 to 11.0.3.

- In **ActionCallback** class:

1. add four new callback functions as below:

```
def Query(keywords, search_scope, search_option, di_path)
def AddSearchIndex(di_path, is_selected)
def RemoveSearchIndex(search_index_config)
def GetSignatureAPStyleNameList()
```

2. the function **SelectPageNthWord** has been changed as below:

SDK 8.4.2:

```
def SelectPageNthWord(page_index, word_index, is_show_selection)
```

SDK 9.0:

```
def SelectPageNthWord(page_index, start_offset, end_offset, is_show_selection)
```

Upgrading to version 8.4.2 from version 8.4.1

There is only one minor upgrade warning in this release when moving from version 8.4.1 to version 8.4.2:

- For OCR module, the OCR engine has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.

Upgrading to version 8.4.1 from version 8.4

There is only one minor upgrade warning in this release when moving from version 8.4 to version 8.4.1:

- For HTML to PDF module, the HTML to PDF engine has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.

Upgrading to version 8.4 from version 8.3

If you are upgrading from version 8.3 to version 8.4, please take note of the changes that occurred between version 8.3 and version 8.4.

- GCC compiler update on Linux

Starting from version 8.4 Foxit PDF SDK for Linux (x86 and x64), the minimum supported version of GCC compiler has been upgraded from gcc4.8 to gcc4.9.4. For

the SDK to work properly, make sure your current GCC version is 4.9.4 or higher, or the libstdc++.so.6 is 6.0.20 or higher.

- For OCR module, the OCR engine has been upgraded, please contact Foxit support team or sales team to get the latest engine files package.
- In **ActionCallback** class:
 1. Add thirty-one new callback functions as below:

```
def SetCurrentPage(document, destination)
def CloseDoc(document, is_prompt_to_save)
def IsLocalFile(document)
def GetAttachmentsFilePath(pdf_doc, name)
def GetExtractedEmbeddedFilePath(pdf_doc, name)
def Print(document, print_params)
def GetUntitledBookmarkName()
def GetPrinterNameList()
def AddToolButton(button_item)
def RemoveToolButton(button_name)
def GetMenuItemNameList()
def AddMenuItem(menu_item_config, is_prepend)
def AddSubMenu(menu_item_config)
def ShowDialog(dlg_config)
def GetFullScreen()
def SetFullScreen(is_full_screen)
def OnFieldValueChanged(field_name, type, value_before_changed, value_after_changed)
def UpdateLogicalLabel()
def MailDoc(document, to_address, cc_address, bcc_address, subject, message, is_ui)
def GetTemporaryFileName(document, file_suffix_name)
def OpenMediaPlayer(player_args)
def GetTemporaryDirectory()
def Scroll(point)
def SelectPageNthWord(page_index, word_index, is_show_selection)
def GetMousePosition()
def GetPageWindowRect()
def GetLayoutMode()
def SetLayoutMode(layout_mode, is_cover_mode)
def GetPageScale()
def SetPageScale(zoom_mode, dest)
def GetPageZoomMode()
```

- In **PDFPage** class:

1. The function **Transform** has added a new parameter as below:

SDK 8.3:

```
def Transform(matrix, need_transform_clip_path)
```

SDK 8.4:

```
def Transform(matrix, need_transform_clip_path, need_transform_annotations)
```

- Remove PagingSeal class.